GENERAL CATALOG

2026



SHENZHEN EVERBEST MACHINERY INDUSTRY CO., LTD.

www.cem-instruments.com







GENERAL CATALOG









ROBUST & DURABLE STRONG OVER ANY REQUIREMENTS

For over 35 years, CEM (Shenzhen Everbest Machinery Industry Co., Ltd.) has been a leading Chinese manufacturer specializing in a wide range of measuring instruments, including Thermal Imagers, Infrared Thermometers, Digital Multimeters, Clamp Meters, Insulation Testers, Electrical Testers, Light Meters, Sound Level Meters, Thermo-Anemometers, Gas Detectors, Manometers, and more.

With more than three decades of manufacturing expertise, we are confident in guaranteeing the quality of all our exported products. Our facility in Shenzhen occupies three buildings with a total area of 24,000 square meters. Additionally, we have a new industrial park in Huizhou spanning 130,000 square meters. Supported by two R&D centers, we continuously develop new products to meet the evolving needs of our customers.

Our workforce of over 1,200 employees across five production departments ensures prompt and timely delivery. All operations are managed in compliance with ISO9001 standards. Our products are certified by UL, GS, CE, REACH and RoHS. In 2009, CEM obtained ISO13485 medical quality certification for medical devices. In 2019, our Smart Air Quality Laboratory passed the CNAS audit, becoming a CNAS-accredited testing laboratory operating in accordance with ISO/IEC 17025 standards.

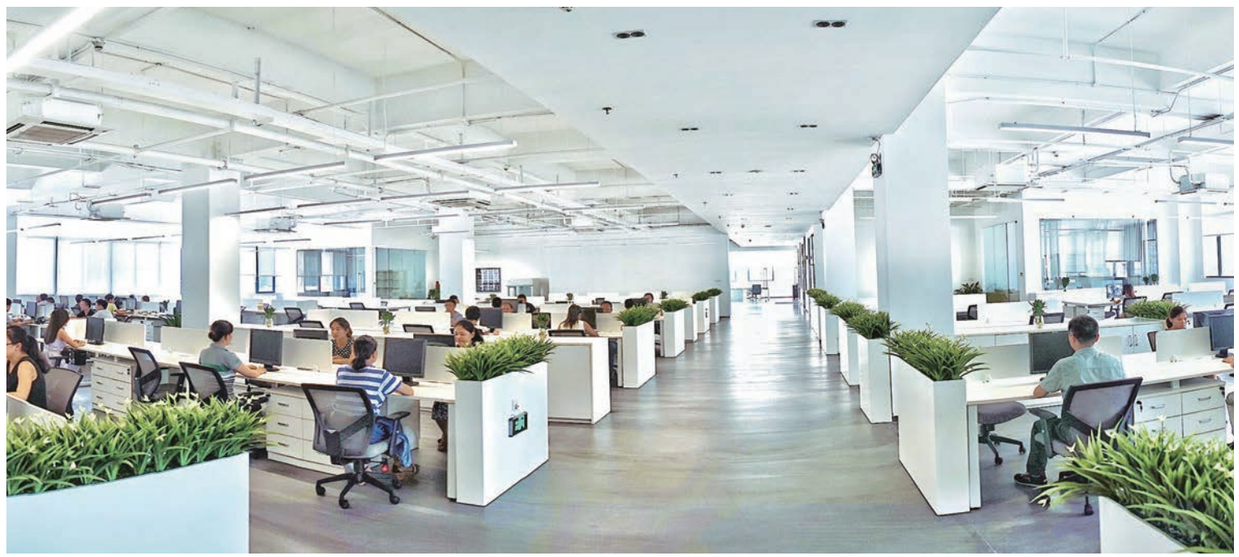
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RESEARCH & DEVELOPMENT

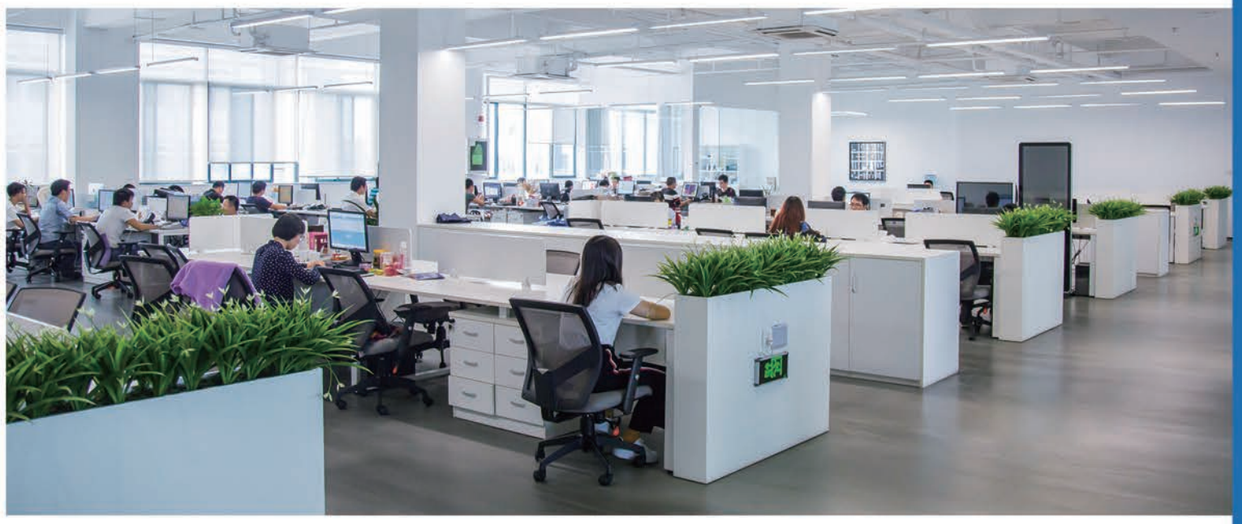
CEM engineers constantly work on innovative which products, that combine the features and functions that our customers asked for. Two R&D centers are on hand to meet the ever changing demand of customers' needs.





HEAD QUARTER

35 years of experience in production and marketing, professional development, design and scientific management, created high-tech, high-precision instruments.
Constantly working on new products to meet the ever changing demand from our customers.



Timely after-sale service: according to the different needs and feedback of customers, CEM provide quality and technical support to ensure fast and effecient after-sale service channel. Customers' satisfaction is the most important thing for our long good business relations.

All our management is organized according to ISO9001. As a result, our products are approved by UL, GS, CE and RoHS. In 2009 CEM has passed medical ISO13485 quality certificate for medical products.


GS


ISO13485


ISO9001


FDA


CE


CE0197







MANUFACTURING PROCESS

All our management of production is organized according to ISO9001 & ISO13485.
As a result, our products are approved by UL, GS, CE and RoHS.





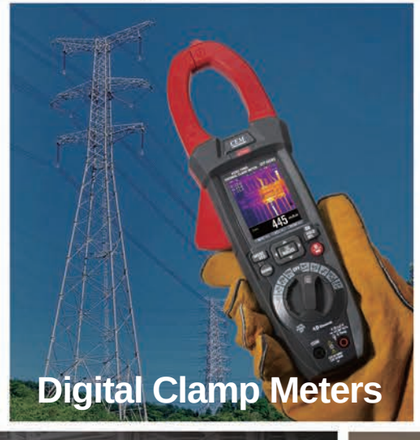
































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* 93U/93HW/96/97U	Mini Environment Meters with Datalogger & CSV	P408
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* 8891 Series	Thermocouple Thermometers	P431
* 8892	Hygro-Thermometer Psychrometer	P433
* 8896	Psychrometer with InfraRed Thermometer	P433
* 610B Series	Thermocouple Thermometers	P436
* 3610B Series	K-type/J-type Thermocouple Thermometers	P434
* 9610B Series	Thermocouple Thermometers	P435
* 1370/1370D	Thermometers	P435
* 1616/1616B/1616H	RTD Thermometer	P430
* 321/321S/321F	Humidity & Temperature Meters	P438
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* 3321/3322	Dew point/Wet Bulb /Psychrometers	P440
* 325 Series	Big Digit Hygro-Thermometers	P439
* 322/323	Interior Temperature Hygrometer	P440
* 125H/125G Series	Moisture Meters	P441
* 120	Pocket Moisture Meter	P442
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* 123 Series	Moisture Meters	P445
* 129/129B Series	Moisture Meters	P446
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* 129M	Pinless Moisture Meter	P450
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* 8851/8852	Sound Level Meters	P453
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* 618 Series	CMM/CFM Thermo-Anemometers	P458
* 3893	CMM/CFM Thermo-Anemometer	P459
* 317 Series	Flexible Thermo-Anemometers	P459
* 8517	Professional Smart Hot Wire Anemometer Meter with Thermocouple Thermometer	P429
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* 8808/8809A	Professional Light Meters	P471
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* RM-180/190	Radiation Scanner	P474
* RN-180/190	Radon Gas Detector	P475



Gas Leak Detector & Carbon Monoxide Meters

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* 8515N	Professional NH_3 Meter	P428
* 900A	HCHO & TVOC Meter	P483
* CO-110	Carbon Monoxide Meter	P483
* GD-3300/3303	Combustible Gas Leak Detectors/ Refrigerant Leak Detector	P484
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* CO-180/CO-181	Carbon Monoxide Meters	P485
* GD-3000	Combustible Gas Leak Detectors	P485
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* GD-600	Stationary Flammable GAS Alarm	P500
* GD-601/3802	O_3 Tester	P500
* 99/99B	O3 Gas Detector	P502
* EMF-60/80	Electromotive Force Detector	P476
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Particle Counter / Environment Meters / Green House Series

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* 176	Waterproof pH/Conductivity Meter	P502
* 22/2232	Multifunction Environment Meters	P503
* 8820	4 in 1 Multifunction Environment Meter	P504
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* 182D Series	Air Quality CO2 Monitor	P491
* 152D/901A	Air Quality CO2 Monitor	P492
* H-80	Smart Home Air Quality Monitor	P501
* 802 Series	Desktop Indoor Air Quality CO2 Monitor	P494
* 328C/GD-120	Air Quality CO2 Monitor	P496
* D02	Intelligent indoor air quality monitoring system	P505
* D03S	Thermal index monitor	P506
* 9890/9891	Particle Counters	P507
* 9880 Series	Particle Counters	P509
* 9851M/9850M Series	Particle Counters	P511
* 967	Desktop Indoor Air Quality CO2 Monitor	P494
* PM-280/CM-280	PM2.5 Air Quality CO2 Monitor	P511
* 968/969	PM2.5 Air Quality Detector	P512
* 9680/9681 Series	Particle Mass Concentration Detector	P512
* 96 Series	Mini Particle Counters	P513
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* 25	Home Energy Check	P503
* T-12/T-12B/T-12S	Timers	P503



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* 800A/800B	Alcohol Tester	P515
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Automotive Digital Multimeters and Testers

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* EVSE-1550	EV Charging Station Test Analyzer	P523
* EVSE-200	EVSE Adapter	P525
* BT-120/130	Automotive Battery Tester	P527
* 1707A	High Precision Current Testers	P529
* AT-5	Engine Tachometer	P530



* TP-5 Series	Tire Pressure Gauge	P530
* 156H	Coating Thickness Tester	P530
* AT-9666	Auto-ranging Automotive Digital Multimeters	P531
* 9008/3116/9008C	Special Meter & Clamp Type Meter for Oil Field	P531
* AT-9906DIS/9965	Auto-ranging Automotive Digital Multimeters	P532
* AT-9955	Automotive Digital Multimeter with IR Probe	P532
* AT-9950DIS Series	Automotive Multimeters	P533
* AT-205P/9945/9945T	Automotive Multimeters	P534
* 960CP	Autoranging True RMS Multimeter with EVSE-Current & CP/Hz Measurements	P534
* AT-9135	Automotive Circuit Multi-Function Tester	P535
* CF-09	Automotive Current Short Tester	P535
* 9010	Automotive Circuit Voltage Tester	P535
* AT-9995/9995E	Professional Automotive DMM with USB	P536
* CF-01/02/06/08 Series	Automotive Current Testers	P537
* RT-05/100	Automotive Relay Tester	P538
* BT-12	Battery Analyzer	P538
* AT-05A/05B	Automotive Tachometer	P538
* RT-01	Refractometer for Anti-freeze & Battery Fluid testing	P538



Digital Storage Oscilloscopes, Spectrum Analyzers, Arbitrary Waveform Generators, Programmable DC Power Supplies

* 5352/4064E Series	Digital Storage Oscilloscope	P539
* 4102/4172 Series	2CH / 4CH Tablet Digital Storage Oscilloscope	P541
* 2015P/2036P/2075P	Spectrum Analyzer	P541
* 5352S	Digital Storage Oscilloscope	P542
* 4051	Bench-type Digital Multimeter	P542

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Healthcare Screening Solution

* AM-384	Nucleic Acid Extraction and Testing All-In-One Machine	P544
* FIA-80	FIA-80 Immunofluorescence Analyser	P544
* e-dx04	Immuno/ Molecular/ Biochemistry Automatic Integrated Analyzer	P545
* TQ-96	TQ-96 Automatic Nucleicacid Extractor	P545
* FZ-80	Real-Time PCR System	P546
* TQ-16	Nucleic acid extractor	P546
* FZ-100/960/384	Real-Time PCR System	P547
* CV-200	Immunochromatography Reader	P550
* COV-2200 Series	COVID-19 Antigen Rapid Test	P550
* PCR instrument 96 well tip comb magnetic sleeve		P550
* 18 High-risk Human Papillomavirus(HPV)Genotyping Real Time PCR Kit		P551
* AI Handheld Electronic Colposcope		P551
* ECG-600	Portable 6-lead ECG recorder + ECG AI software	P552
* HX-610/660 Series	Household Ventilator	P553
* OX-97	Pulse Oximeter	P559
* GM-68	Blood Glucose Monitors	P560

Blood Pressure Monitors

* BP-6801	Arm Electronic Blood Pressure Monitor Pro+ECG AI Analysis Software	P552
* BP-106A/108/108H/108B	Electronic Blood Pressure Monitor	P555
* BP-80 Series	Electronic Blood Pressure Monitors	P556
* BP-2681/2681/120H	Smart Blood Pressure MonitorMedical-Grade Accuracy+ AI Health Management	P557

Non-contact Clinical Forehead IR Thermometer

* 8806H/8806U/8816H	Forehead InfraRed Thermometers	P561
* 8806/8806B/8806S	Non-Contact Clinical Forehead InfraRed Thermometer	P562
* 8808S/8808H	Non-Contact Clinical Forehead InfraRed Thermometer	P563
* 8807S/8807B	Non-Contact Clinical Forehead InfraRed Thermometer	P563
* Leyu1/2/3/808/808S	Forehead InfraRed Thermometers	P564
* 206	Intelligent Electronic Thermometer Patch	P558
* 886 Series	Ear Thermometers	P565
* 807	Ear Thermometers	P565
* 608	Mini Non-Contact Forehead InfraRed Thermometer	P565
* 808H	Non-Contact Clinical Forehead InfraRed Thermometer	P566
* 8807H/8807HB	Non-Contact Clinical Forehead InfraRed Thermometer	P566
* MT-1/MT-2	Non-Contact Clinical Forehead InfraRed Thermometer with TDS/TVOC	P567
* 8836/8836H	Non-Contact Clinical Forehead InfraRed Thermometers	P567
* 8809H/8809B/8809N	Non-Contact InfraRed Thermometers for animals	P568
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* 8817/8807	Non-Contact Clinical Forehead InfraRed Thermometers	P569
* 137/137S/137H	Electron Clinical Thermometer	P570
* 106/106S	Electron Clinical Thermometer	P570
* AM-322	Non-contact infrared thermometer	P571
* DR-100	Smart doorbell with temperature measurement function	P572

Video Borescope

* BS-860	High Definition Personal Video Borescope	P569

Facial Massage Device

* SM-136	Multifunction Electric Facial Massage Device	P570
Cold chain temperature and humidity data recording solutions		P573

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Energy Storage Solutions

* EV-230/270/280/290 Series	AC Electric Vehicle Charging Unit	P577
* EV-210 Series	AC EV Charger	P578
* EV-12V	Power Inverter 150W	P578
* EV-D1000C 20 Series	20 to 160kW Integrated DC Charger	P579
* EV-F1000C 360/480/640	Flexible Distribution DC Charging Pile	P580
* PW-680	600W Portable Power Station with 614Wh High Capacity Battery	P581
* PW-520 Series/1200/2200	Portable Power Station with High Capacity Battery	P582
* PW-2500 Series	2.5kW High-end Household Energy Storage Power Supply	P583
* MPW-600 Series	Microinverter	P584
* HPW-5000 Series	Solar Storage & Grid-connected Hybrid Inverter	P585
* BT-50H Series	Low Voltage Battery System	P587
* ESS-C125-261L	Liquid Cooling Business Energy Storage System	P588

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Sensor Module

* Meterbox Connect		P589
* C9	InfraRed Carbon Dioxide Sensor Module	P591
* PM5050/3510	Particle sensor	P592
* AQM-08	Air quality sensor	P592
* VS-20	Vibration sensor	P592
* MPS 100 Series	MEMS Pressure Sensor Module	P593
* PM-10 Series	PM2.5 Dust Sensor	P594
* MTP10-A6F8 Series	MEMS Infrared Temperature Sensor	P594
* PM-10 Auto	Automobile CO_2 Sensor	P595
* MIT80-15	Infrared temperature transmitter	P596
* MPY20-CO_2	NDIR CO2 Sensor Module	P596
* MPY20-A-SF_6	MEMS Thermopile Gas Sensor	P597
* IR-M8/IRM-32	Non-contact Infrared Remote Temperature Measurement Module	P598
* LDM-PEEK80	Industrial-Grade Laser Ranging Sensor	P598

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Accessories

599-606

DT-9898/9886Pro/988/979A/876/T-50F series/ DR-09MAX
Professional Thermal Imagers



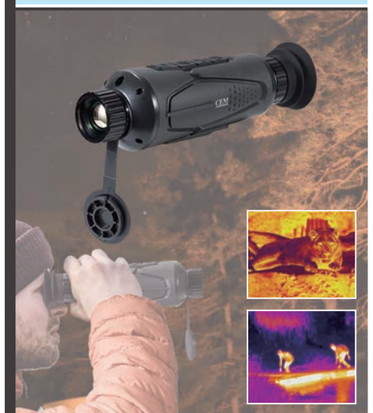
640x480 High Performance Thermal Imager with 3.5" high resolution
TFT color LCD display
Built-in laser distance function
Capacitive touch screen is easier, productive and effective to operate it
Powerful Auto Fusion mode (AUF)
USB-mini, data transform between camera and PC
WiFi real time share, free Cloud storage and analyse
Portable thermal camera with AUF mode and WiFi connectivity (T-50F)
Advanced AI-Enabled Thermal Imager (9886Pro)

AI-9886Pro/9887Pro P39
Advanced AI-Enabled Thermal Imagers



This advanced thermal imager not only generates high-resolution thermal images in real time, but also uses built-in AI algorithms to automatically identify abnormal temperature areas, diagnose potential faults, and supports voice annotation and one-click report generation.

T-80 series P65
Handheld Thermal Vision Monocular



Thermal imager that wirelessly connects to your iOS/ Android smartphone Inspect out-of-reach targets
Thermal resolution: up to 256x192
Temperature range: -20°C to 550°C
Identify and locate moisture intrusion

T-09F/15F/30Fseries P70
Smart Thermal Camera



Thermal image snap and record
Show temperature data at real time.
Point/Line/Area real-time analysis
History thermal image analysis
Export PDF report

DT-1990H
Industrial Acoustic Imager P77



The 1990H is an Acoustic Imager that detects and locates an acoustic signature. These signatures can indicate leaks in compressed air, compressed gas, and vacuum systems. In addition, the 1990H detects electrical discharges as well as leaks. Examples of these electrical discharges include partial discharge such as corona, surface tracking, and arcing. The 1990H also identifies and locates potential mechanical issues.

DT-1980
Acoustic Imager P79



Acoustic Imaging Camera is designed for compressed air leak-age, partial discharge detection and other sound source localization. With 162 MEMS microphone arrays and an adjustable bandwidth from 2kHz to 100kHz. The detection range from 0.3m to 150m. Laser distance measuring and infrared camera (256x192) are Integrated.

DT-9870H P83
Professional 120 x90 InfraRed Imager Thermometer



120x90 InfraRed Thermal Imager
InfraRed Thermal Temperature Range -20ºC ~ 400ºC
2 million pixel video camera
Single point InfraRed temperature Range -50ºC ~ 1200ºC

DT-869IR P108
InfraRed 32 x 32 pixels Imager Thermometer



2.0 inch 240 x 320 TFT LCD display.
32 x 32 pixel InfraRed sensor.
Image capture frequency 7Hz.
Thermal sensitive(NETD) <347mK.
Cold hot spot automatic capture.

DT-830L P100
InfraRed Thermometer



IR Temp. Range: -50ºC to 500ºC/-58ºF to 932ºF
IR Temp. Resolution: 0.1ºC/ºF
Distance to Spot size: 12:1
Adjustable 0.10~1.0

Professional Electrical Measuring Tools plus Thermal Imagers application



DT-9889 Professional True RMS Industrial Multimeter with InfraRed Thermal Imager
DT-9581 Professional AC/DC True RMS Clamp Meters with 80x80 InfraRed Thermal Imager
DT-898FC True RMS Compact Multimeter with InfraRed Thermal Imager
DT-6509 3 in 1 Professional Insulation Tester with Thermal Imager & Micro-ohm meter

DT-9979S P131

Professional True RMS Industrial Multimeter with TFT color LCD display



50,000 counts 320 x 240 TFT color LCD display
20MHz bandwidth and 50ms/s realtime sample rate
Over 10,000 data logging function with trend capture
0.025% DCV accuracy with fully PC calibration

DT-9864H P143

Heavy Duty True RMS Industrial Multimeters with VFD Measurement



45Hz-1kHZ Bandwidth, 61 Analogue Bar Graph
Low pass filter (VFD) function
True RMS Measurement
Input terminal LED indication

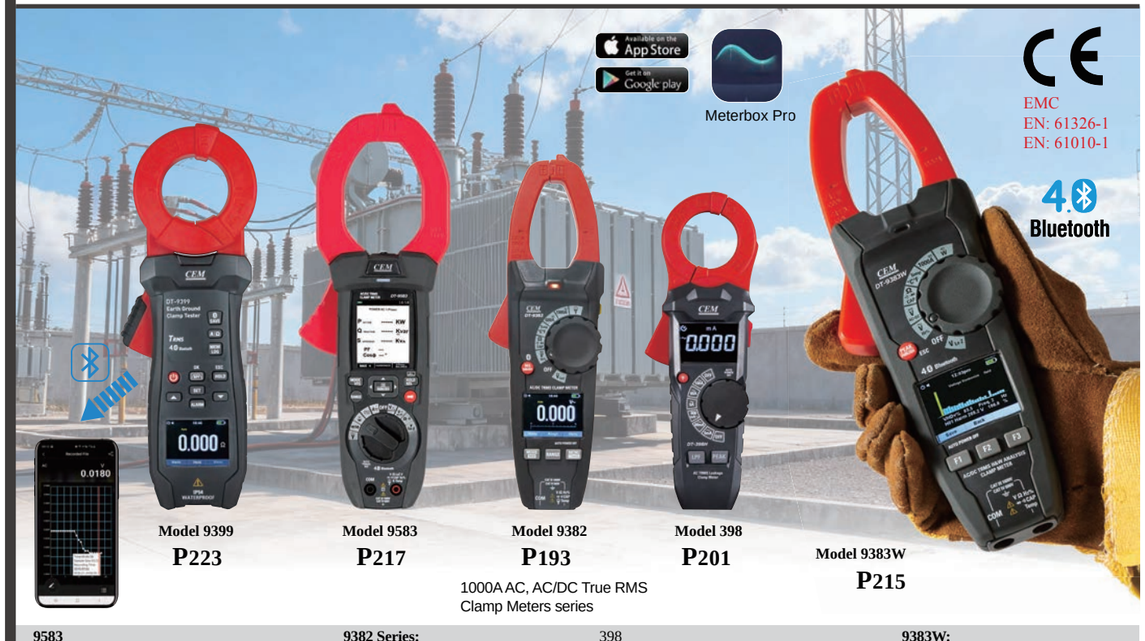
DT-9589L

Heavy Duty True RMS Industrial Multimeters



50,000 counts display with LCD backlight
True RMS Measurement, Auto Ranging51 Analogue Bar Graph, Input Protection
Input Impedance for DCV & ACV (around 10MΩ)
926B/927H Compact True RMS Multimeter

Professional AC, AC/DC True RMS Clamp Meters + NCV with Bluetooth



1000A AC, AC/DC True RMS Clamp Meters series

9583
2.4'' TFT color 6000 counts LCD display with 240x320 pixels
True RMS measurement for ACV / ACA / LoZ for ACV measurement
Harmonic failure analysis & Three-phase energy measurement

9382 Series:
1.8''TFT color LCD display counts
AC True RMS
100mS Inrush current
Low input impedance prevents false readings due to "ghost voltage" (LoZ)

398
Accurate AC digital clamp meter for leakage current measurement
Pmax/Pmin, Data Hold function Temp
Measurement LPF function
6000 Counts LCD display (Negativity display)

9383W:
1.8''TFT color LCD display counts
Analyze and record harmonics in digital or graphical form
100ms Inrush current & Peak function
LoZ and VFD function
Power and Energy Analyzer

DT-3070/392D/393BT

AC/DC True RMS Fork Clamp Meter



392D/393BT clamp meters provide Dual fast A/D converting sampling time, high accuracy offer all needed features for measurement.
3070 AC/DC True RMS Fork Clamp Meter

DT-3071 P214

Milliamp Process Clamp Meter



3071 Milliamp clamp meter measures mA signals for PLC and control system analog I/O, True RMS enables an accurate measurement for distorted waveforms.

FC-37H P233

100A AC/DC Clamp Meter AC Current measurement from 0.1mA



AC Current measurement from 0.1mA
Measures AC and DC current to 100A
0.7" Cable Clamp size
2000 count backlit LCD display
Measurement of DC voltage and AC voltage up to 600V

Multifunction Electrical Installations Meters



DT-6653/6656 rugged Multifunction Installation Tester with 3.5" Negativity display, provides insulation resistance, earth resistance, loop impedance, voltage, RCD, PFC and PSC testing. It is designed for software system and ensure the safety of electrical installations in domestic, commercial and industrial applications. The fixed wiring is safe and correctly installed. It's fast sampling and dual display, clear symbols and exceptionally wide viewing angle are for easy and safe readings.

DT-6508H/6507H are all-in-one test devices, which have the measurement functions of voltage, resistance, phase sequence, harmonic, loop impedance, RCD and so on. They can identify and measure the voltage harmonics, frequency, duty cycle and phase sequence to judge whether the power grid voltage is normal. Continuity test and resistance measurement function can measure the conductor resistance and judge whether the conductor contact is good. The loop impedance test can measure the loop resistance with electricity, and the ZL-PE RCD measurement can make the RCD above 30mA not trip. RCD test can detect whether RCD works normally.

DT-6508B P261

Professional Insulation Tester



Large 240 x 320 3.5” RGB color 6000 counts LCD display
Insulation test voltages 125V, 250V, 500V, 1000V
Insulation test: 0.001MΩ to 6000MΩ
PI/DAR timed ratio tests

DT-6503E P268

Earth Ground Resistance Testers



Capable of measuring earth voltage.
Data hold ,MAX/ MIN function.
Auto power off function: The timer operates auto-matically about 3 minutes when the “ Test Button Switch “ are pressed to keep the tester power on.
2mA measuring current permits earth resistance tests

ET-30H P304

Multifunction VOLT & Socket Tester + AFCI + GFCI



Checking plugs (Correct wiring).
L-N voltage measurement, TRMS.
Differential test (type A, AC and F; 30mA) also with AUTO mode and contact voltage measurement.
Measurement of loop impedance (Earth resistance) and contact voltage in TT systems.

AI-7760 AI-Enabled Three-Phase Power Quality Analyzer P247



The Class A AI-enabled three-phase power quality analyzer performs high-precision measurements of all key electrical parameters, including voltage, current, power, energy, harmonics (up to 50th order), flicker, sag, swell, and unbalance, fully complying with international Class A (IEC 61000-4-30) standards for the most accurate diagnostics.
Application Functions: Its integrated AI goes beyond data logging. It intelligently diagnoses power quality issues, predicts potential faults by analyzing trends, and automatically generates simplified, actionable reports. This is essential for troubleshooting, preventive maintenance, and energy efficiency audits in industrial, commercial, and renewable energy systems.

DT-230PQ/630PQ P251

Electric Energy Monitoring



Current sensor type Rogowski coil,Voltage-output current clamp
Advantage Suitable for wide current range, no dis-mantling measurement
Application field Power analysis, Tariff meter
Modbus RTU, RS485 Port

DT-6631S P249

Power Quality Analyzer



The handheld three phase power quality analyzer support systems of single-phase and three-phase. It can measure multiple electrical parameters such as current, voltage, power factor, power, energy, and power quality parameters including harmonic, unbalance degree, voltage swell and voltage dip, etc. to the system data center in real time.

DT-7760 P245

Class A Power Quality Analyzer



7760 Three-phase Power Quality and Energy Analyzer Comprehensive Power Quality Analysis: Accurately measures all standard power parameters, including voltage, current, power, energy, harmonics (up to the 50th order), interharmonics, flicker, sag, swell, transients, and unbalance. Fully comply with lEC61000-4-30 A-levelstandard version 3.0.

AI-AFCI
Arc Fault Detection Solution

P335



AFD-80 The new-generation Arc Fault Circuit Interrupter (AFCI) tackles DC arc faults in photovoltaic (PV) systems. Integrated with advanced AI, it achieves highly precise arc detection, offering a 200-meter range and rapid shutdown within 500 milliseconds to enhance safety.

AFD-60 /60/74

P337

AI Arc Fault Circuit Interrupter (AFCI)



AFD-60/74 is 4-Channel Arc Fault Detectors
AFD-90/91/92 is AI Arc Fault for energy storage and charge system

AFD-10/20

P339

String Level Arc Interrupter



Effectively addresses arc issues in ground-mounted PV systems by enabling arc fault detection and shutdown at the string level. When an arc is detected in a string, the system performs a string-level shutdown.

AFG-1000

P338

ARC GENERATOR



Features a 2.8-inch touch screen
Simulate and test faults at different severity levels
Features a patented arc signal control algorithm, ensuring accuracy and stability in signal generation.
Easy to carry, suitable for detection and testing in different scenarios

Multifunction VOLT & Socket Testers

P303



Socket testers are compact, handheld diagnostic instruments designed to verify the wiring integrity of electrical outlets. These devices are essential tools for both residential and commercial electrical systems, widely employed to ensure compliance with safety standards. Advanced socket testers significantly streamline the verification process, delivering highly reliable and precise assessments of outlet conditions.

M-20

P293

Wrist Type Non-Contact AC Voltage Alarm



MO-60 Hard Hat Attachment
M-20 Wrist Type Non-Contact AC Voltage Alarm
The Non-Contact AC Voltage Alarm use non-contact induction technology to ensure the safety of close-electric workers. The alarms are widely used in electric power, railway, industrial and mining enterprises and other close-electric working places.

DT-6518W

P330

Professional Solar PV/EV True RMS Multimeter & Insulation Tester



Large 240 x 320 3.5” RGB color 6000 counts LCD display
Insulation test voltages 125V, 250V, 500V, 1000V
Insulation test: 0.001MΩ to 6000MΩ
AC, AC+DC True-RMS measurements & 1kHz ACV, ACA bandwidth
Power kVA measurement

CT-6601CLT

P267

LoΩ/TDR Cable Length Tester



The LoΩ/TDR Cable Length Meters are hand-held testing devices with the following measurement capabilities: Resistance, Temperature and Length. This meter can also be used to measure the length of cables through TDR (Time Domain Reflectometer).

Solar Meter for Photovoltaic Testing Equipment

CAT III 1500V Best Solar Energy photovoltaic Industry Meters



Model 966PV P325
Model 9561H P145
Model 9481 P192
Model 3398L P211
Model 9582PV P327
Model 9585 P217

DT-9582PV CAT III 1500V Solar PV Clamp Meters
DT-9561H Heavy Duty True RMS Industrial Multimeters with VFD Measurement
DT-9481 Professional AC/DC True RMS Clamp Meters
DT-3398L CATIV 1000V 2000A AC, AC/DC True RMS, Solar PV Clamp Meters
DT-9585 2000A Power Quality Clamp Meters with 80x80 InfraRed Thermal Imager

DT-966PV P325
Solar PV Multimeter



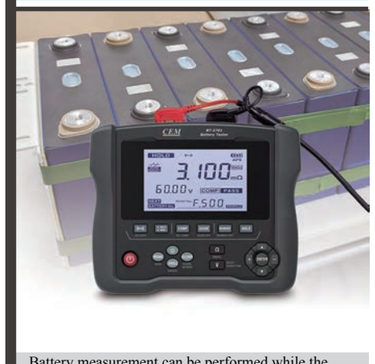
Large 60,000/6000 counts LCD display with analog bargraph & backlight
2000VDC measurement for Photovoltaic output
AC True-RMS measurement & AC+DC measurement
Low pass filter (VFD)

DT-1317/1317BT P315
DT-1337



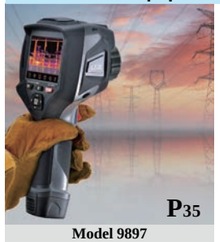
DT-1317/1317BT Solar Irradiance Meter
Sunlight measurement up to 1400w/m²
Measurable tilt measurement range from -90°to 90°
The tilt angle can be manually adjusted to zero
DT-1337 Solar Photovoltaic Panel Tester

BT-3701 P331
Battery Tester



Battery measurement can be performed while the battery is connected to its host device, without taking it offline
Measure and save data in as fast as 2 seconds.
Instantaneously diagnose battery degradation by measuring internal resistance and voltage.

Maintenance Equipment



P35
Model 9897
Thermal imager



P245
Model 7760
Power quality analyzer



P259
Model 6509
Insulation tester



P223
Model 9399
Earth Ground Clamp Meter



P280
Model 195CVS
Dataloggers

Multifunction PV Performance Analyzer, I-V Curve Tracer

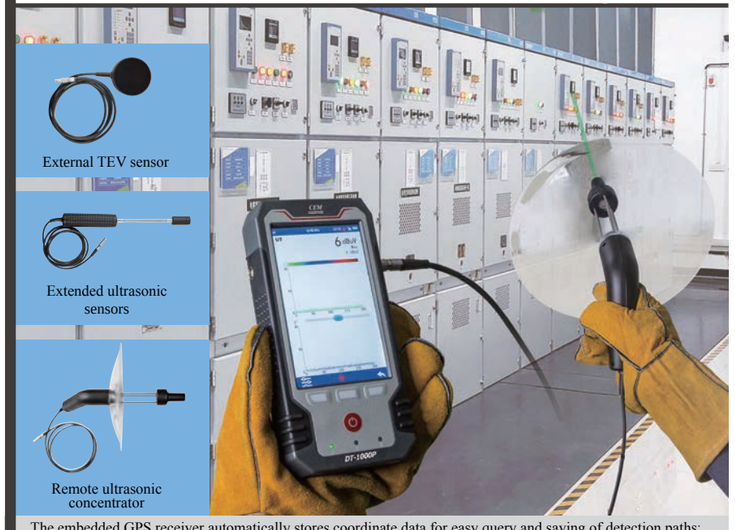


EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Model 1500PV P317
Model 9950PV P321
Model 1600PV P319

All-in-one PV system test solution meeting IEC 62446-1 standards for Category 1 and Category 2 tests
Open-circuit voltage (VOC) measurement at the PV module/string up to 1000 V DC
Short-circuit (ISC) current measurement at the PV module/string up to 30 A DC
On-location I-V curve results compares manufacturer I-V curve data to measured data on the analyzer screen

DT-1000P
Power Partial discharge detector P333



The embedded GPS receiver automatically stores coordinate data for easy query and saving of detection paths;
With the function of detecting temperature and humidity, it can detect the ambient temperature and humidity in real time;
With data saving function, upload data to the cloud platform, and realize the function of data analysis review;
High sensitivity, directionality and directivity, accurate location of line faults;
Live detection, does not affect the normal operation of the inspected equipment;
The instrument can be expanded with a variety of external sensors and flexibly used in various detection scenarios

DT-6517PV P329
CAT II 1500V Multifunction PV Tester



DC voltage of an open module / chain PV – UOC,
AC voltage on the AC side (connection of the inverter to the power grid),
DC short-circuit current of the PV module/chain – ISC.

HV-10N/20N
Non-Contact High-Voltage Tester
P294



HV-10N: 0V/1.5kV/132kV (Max 132kV)
HV-20N: 240V/4.2kV/15kV/25kV/35kV/69kV/115kV/230kV (Max 230kV)

Wide range of AC Voltage detection
System self-test
Highlight LED to display the test result

DT-9350
Multi-Function Signal Generator
P308



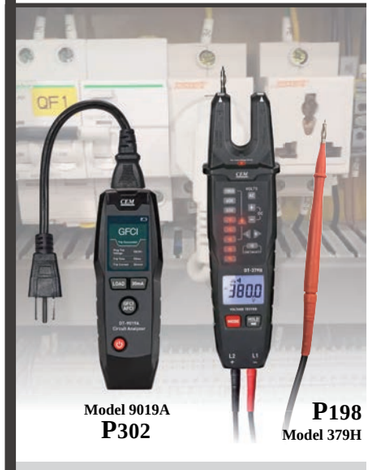
Multiple signal outputs: voltage, current, resistance, mV TC, RTD, HZ
0.01% Accuracy
Temperature compensation
64 sets of datastores
Lookup table function

AC-17/17B
Non-Contact voltage tester with laser infrared thermometer
P290



Wide measuring temperature range and high accuracy
Wide range of AC voltage detection
Highlight the led to display the measurement results
High safety of non-contact measurement
System self-test, Auto power off, Low battery indication

DT-379H Voltage Tester
DT-9019A Electrical Testers



DT-9019A AFCI TEST is an electrical outlet tester that tests for wiring faults in electrical outlets, and also tests AFCI and GFCI Devices.
6V to 1000V AC/DC True RMS Voltage test with LCD/LED Indication (379H)

DT-901H/902H
Phase Rotation Indicator
P281



3 Phase rotation indication, No battery required (901H)
Motor and 3 Phase Rotation Indicator (902H)

VD-200/1000/1100/1500/1550
Voice / Data / Video (VDV) Wire Testers



VD-1000/1500/1550 Cable tester tests voice (RJ11/12), data (RJ45) and video (coax F-connector) terminated cables with clearly defined results.
Test for Open, Short, Miswire or Split-Pair faults
Measure cable length up to 2000 feet (610 m)

VD-600
Multifunctional Cable/ Network Tester
P358



The VD-600 is an industry leading cable tester that runs a variety of cable testing procedures such as wiremap, timing tests (delay, skew), impedance measurement, Ethernet switch port blink, speaker pop, cable length, PoE volts, loaded battery test and 10/100/1000/10000 indication.

FB-1310
2 in 1 Non-Contact Optical Fiber & AC Voltage Detector
P357



High sensitivity optical fiber signal detection
50V~1000V non-contact AC voltage detection
Detects optical power in SM and MM fiber (850 to 1625 nm)
Suitable for ports and patch cords, SM, MM, UPC and APC

LA-2028
4 in 1 Stud/Metal/AC Voltage Finder with Multimeter Function
P309



LA-2028 uses electronic signals to locate the edges of studs, joists or live AC wires through drywall or other common building materials. Multi color display and sounds an audible tone. DMM function make it easy to the capability to tackle any electrical task.

DT-6615H 15kV High Voltage Insulation Resistance Tester
DT-1200PV PV Insulation Tester with 200mA Short Circuit Test



Model 1200PV **P332**

Model 6615H **P272**

The open circuit voltage of the PV panel or a chain of panels, up to 1500V DC. Insulation resistance of PV panels - measuring voltage of 100, 250, 500 or 1000 V, simultaneous measurement of two values: RISO+ and RISO-. Resistance of protective conductors and equipotential bonding with ± 200 mA current. Low-current resistance measurement, audible and visual signalling.

5 kV, 10 kV, 15 kV DC resistance tester is high voltage insulation resistance tester, used for insulation resistance, solar Photovoltaic voltage, low resistance test, etc. Suitable for, transformers, motors, cables, switches, electrical appliances and other power equipment and insulation material testing, industrial and energy power testing, etc. At the same time, with step voltage adjustment function, can output a variety of levels of voltage, with solar cell detection, hard shell design, safety level up to CATIV1000V, data storage and Bluetooth communication.

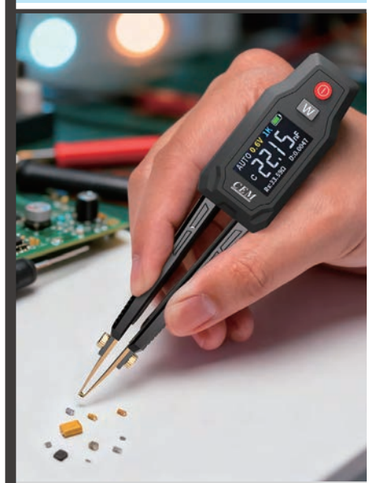
Smart Digital Multimeter with Automatic Selection



Model 9901A **P165** Model 920A **P166** Model 910A **P166** Model 181FC **P171**

6000 counts True RMS LCD display (Negativity display)
50Hz~1KHz Bandwidth (Hz)
Live Test (red/yellow/green light indication)

LCR-30 **P183**
Multifunctional LCR Meter



LCR-30 is a multifunctional and portable test instrument that supports precise measurements of inductance, capacitance, resistance, and diodes.

Vehicle Maintenance Solutions

EVSE-200 EVSE Adapter for Electric Vehicle Charger Testing
EVSE-1550 EV Charging Station Test Analyzer



Model 6650 **P253** Model EVSE-200 **P525** Model EVSE-1550 **P523**

The EVSE-200 is an extender for interfacing Electric Vehicle Supply Equipment (EVSE) to test socket of installation tester for verification of electrical safety and functional testing. It is intended for testing Mode 3 EV supply equipment with type 2 connector.
The ESVE-200 adapter allows you to conduct tests in combination with appropriate test instruments like an installation tester (for example DT-6650 Series).

EVSE-1550 is a all-in-one Electric Vehicle Charger Checker for Level 1 and Level 2 with wireless connectivity. The EV-connectors for Type 1 and Typ 2 connectors designed Electric Vehicle charger checker performs EV charger safety checks and operation checks with additional Insulation test, Earth Loop resistance test to ensure the safety and functionality of EV Charger compliance with IEC61851-1. Measuring data can be transmitted to smart phones via bluetooth and visually analyze and store.

DT-156H **P530**
Coating Thickness Tester



Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques.

BT-120/130 **P527**
Automotive Battery Tester



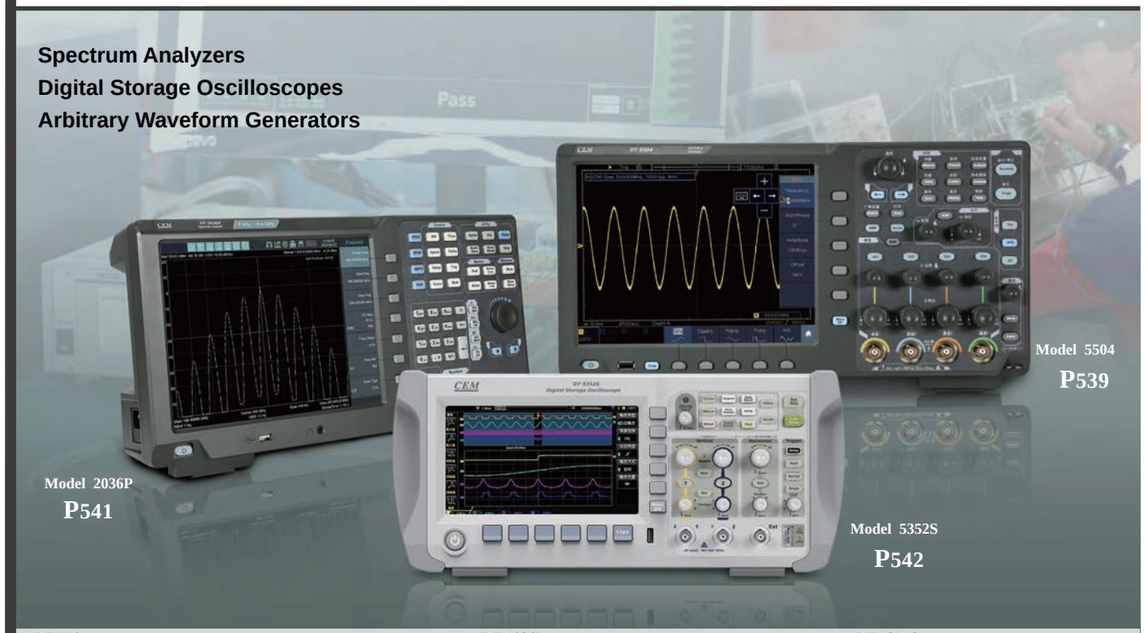
Battery testing ranges from 100 to 2000 CCA
Detect bad cells & Test deep discharge battery
Protect against reverse polarity

AT-9996 **P521**
Professional Automotive Oscilloscope DMM with TFT color LCD display



Large 6000 count 320 x 240 TFT color LCD display
AC, AC+DC true-RMS measurements
Records events and trends
Saves measurements
A/D convert fast sampling time
IP67 dust and water proof

Digital Storage Oscilloscopes/ Spectrum Analyzers/ Arbitrary Waveform Generators



DT-5504
350 MHz / 500 MHz oscilloscope bandwidth, 5 GSa/s sample rate
Standard 400 Mpts memory depth
600,000 wfms/s refresh rate, easy to capture exceptional and low probability events
Advanced function calculation function
10.4-inch multi-touch screen

DT-2036P
Frequency range 9kHz - 7.5GHz
-162 dBm Displayed Average Noise Level (DANL)
Phase noise -106 dBc/Hz @1GHz and offset at 10 kHz
Total amplitude accuracy <0.7 dB
1 Hz minimum resolution bandwidth (RBW)
EMI pre-compliance test kit, optional EMC test software

DT-5352S
5 1/2 digits and 4 1/2 digits resolutions
Reading rates up to 150 readings/s
True RMS AC voltage / current measurement
Dual line display supported
Standard 50MHz single-channel arbitrary waveform generator

DT-922A/923S P169
3 in 1 Dual Channel Flat Panel Oscilloscope Multimeter



This device has three major functions: oscilloscope, multimeter, and signal generator. The oscilloscope adopts FPGA+MCU+ADC hardware architecture, with a sampling rate of 250MS/s, a 50MHz analog bandwidth, a built-in high-voltage protection module.

DT-9922S/9920S P168
Dual Channel Oscilloscope & Oscilloscope Multimeter



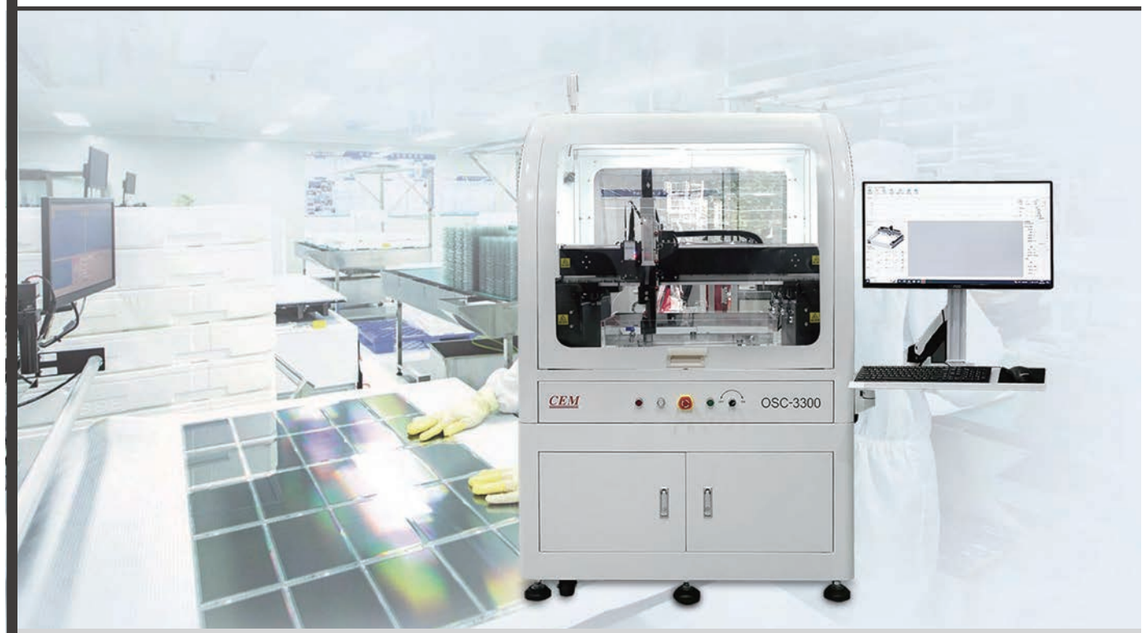
9922S is Handheld dual channel oscilloscope
9920S is True RMS Digital Multimeter with 50MHz Oscilloscope
3.5-inch IPS full-view color display
Type-C charging port, data Transfer

DT-9102S P170
Dual channel oscilloscope multimeter



500MSPS real-time sampling rate
180MHz analog bandwidth
Up to 50000wfm/s waveform refresh rate
ZOOM scaling time base
Low to 5mV/grid high sensitivity
Ultra high waveform signal-to-noise ratio

OSC-3300
Scanning Acoustic Microscope P349



Multi-gate setup, surface wave or bottom wave gate following
Window zoom analysis, thickness analysis, sound velocity analysis, waveform comparison analysis.
Various filtering algorithms, image enhancement, filtering, smoothing, sharpening and other conventional image processing functions

DT-1707A P529
High Precision Current Testers



The high-precision AC/DC clamp ammeter is a precision instrument for verifying AC/DC current, using internationally advanced fluxgate technology. Accuracy can reach up to 0.05%

DT-1580 P351
Professional Coating Thickness Tester



Wide thickness range: 0.08 mm (0.003 in.) to 635 mm (25 in.) depending on material and transducer selection
High Resolution software option of 0.001 mm or 0.0001 in. with single element transducers 2.25 MHz to 30 MHz

BXL-500P/ BXC-15 P109
Portable IR Calibrator



Accurate, reliable performance from 35 °C to 500 °C, Ethernet network interface (BXL-500P)
Accurate, reliable performance from -15 °C to 120 °C (BXC-15)

GD-3805 Professional NH3 Meter
GD-3806 4 in 1 Multifunction GAS Meter



Model GD-3805 P477

Model GD-3806 P477

Model 8515N P428

Model 8513H P427

GD-3805 Professional NH_3 Meter
GD-3806 4 in 1 Multifunction GAS Meter
2.8” color screen displays time, concentration, alarm, storage, communication and other information.
More than 100,000 data storage
Sound and light alarm, vibration alarm or sound and light + vibration alarm.

DT-8513H Professional HCHO Meter
DT-8515N Professional NH3 Meter
2.8" TFT color display , resolution 240(RGB) x 320 Pixels.
Graphic and digital interface mixed real-time display of HCHO concentration.
High accuracy measurement of HCHO, Air temperature and Humidity.
Capacity for data logging.

DT-3898A P397
Vibration Tester



2.8-inch TFT color display, which can display measurement values and status more clearly
It can measure acceleration, speed and displacement
Adjustable high and low vibration frequencies
Rechargeable lithium battery
High sensitivity sensor, with precise measurement

GD-3101/3102 P480
Gas-Leak Detector



Model GD-3102

Model GD-3101

Detects all combustible gas leaks even tiny leaks.
Highly sensitive and reliable

DT-167 P120
Digital Thermometers



The display content is displayed by Angle
Type K thermocouple
LED screen shows readings in Fahrenheit or Celsius
User Selectable ºC or ºF
1.2mm Diameter probe shaft tip
Sampling time 0.5 seconds

CH-9980/9980B
Laser methane telemeter P487



Using Tunable Diode Laser Absorption Spectorscopy (TDLAS) technology, it has high sensitivity and rapid response. It only reacts to the target gas without cross interference of other gases. It has a long measurement distance and can quickly detect leakage.

GD-110 2 in 1 CO & Smoke Detector
GD-505 4 in 1 Multifunction GAS Meter



Model GD-505 P479

Model GD-110 P496

GD-110 2 in 1 CO & Smoke Detector
RGB breathing lamp, beep alarm frequency indicates the alarm level
Built-in large capacity 3.7V lithium battery

GD-505 Multiple alarm methods, combining voice, vibration, LED lights, and other alarm methods, with adjustable low and high alarm values

BS-160D/160DS P379
Video Borescope



4.5” 854×480 pixels TFT LCD
Support Wi-Fi real-time video transmission
Comspact, high-resolution water-proof camera probe
Video and images can be transferred to PC via the SD card or USB output

BS-250/250S P382
Video Borescope



Borescope provides a complete view of interior drains, pipes and other plumbing systems. It features a 4.5-Inch color LCD monitor with 854 x 480 resolution, three-times zoom, and 180-Degree screen view rotation. View captured videos and images on the display or transfer them to your PC via USB-C.

BS-450/452 P376
High Definition Video Borescope



Model BS-452

5" color TFT LCD with high definition 640x480 resolution
SD memory card included to store more than 14,600 images
HDMI output for viewing images and video directly on a monitor
Video and images can be transferred to PC via the SD card or USB output

DT-869MAX
Professional Multifunction Environment Meters **P421**



3.2" TFT screen display.
Multi functional integration: measurement of temperature and humidity, wind speed, illumination, noise, vibration, electromagnetic field, and atmospheric pressure, etc.
Dual probe interface, supporting simultaneous measurement of any two probes.
Support Bluetooth data transmission.
Store 10000 measurements.
Multi language interface.

DT-8853S
Sound Level Meters **P451**



Analog AC/DC outputs for connection to frequency analyzer or X-Y shalt recorder
Datalogger function
Adjustable Alarm-Levels
Memory for 32700 readings
Bluetooth interface

DT-D02
Intelligent indoor air quality monitoring system **P505**



DT-D03S Thermal index monitor

Thermal index monitor can conduct simple and intuitive thermal index management.The monitor measures temperature and relative humidity and calculates the integrated temperature thermal index (WBGT). The sensor module can be connected with an extended cable.

Air Quality CO_2 Monitor



NDIR (Non-dispersive Infrared) CO2 sensor.
Built-in large-capacity rechargeable lithium battery.
Tri-color display bar.
Clear and easy-to read LCD screen.
Temperature readings are in °F and °C, both can be optionally replaced.

Air quality indicator function. Under different concentrations of carbon dioxide, the liquid crystal will display different colors.Adjustable alarm function
Temperature and Humidity function

Professional Coating Thickness Tester
Professional Laser Distance Meter of outdoor application



LDM-380 series professional laser distance meter built-in camera.
The **LDM-40B** series enhanced the measurement ability of outdoor application.
159 is a 2.4" TFT color LCD display coating thickness tester with temperature and humidity measurement. The LCD screen can auto-rotate with 0°, 90°, 180°, 270°

GD-3802
O_2 Tester **P500**



This instrument is an oxygen meter, which can measure the oxygen concentration with a measuring range of 0~100% O_2.
Oxygen sensor can be replaced
MAX/MIN/HOLD Measurement mode

EMF-60/80
Electromotive Force Detector **P476**



Monitor high frequency electromagnetic noise radiation
Monitor Extremely Low Frequency(ELF)EMF radiation
High sensitivity, fast response time
Audible and visual alarm
Low battery display
Auto Power Off

RN-180/190
Radon Gas Detector **P474**



RN-180 is a Radon Gas Detector. It can display the average radon level over the 24 hours, 7 days, and 365 days.
Rechargeable battery
Digital LCD display with backlight
Low-battery indication

RM-190 This product is a built-in high sensitivity reform counter as a detector of radiation dose monitoring instrument,mainly used to monitor all kinds of radioactive workplaces of X, Beta, Gamma ray radiation, with high sensitivity fast response, accurate measurement, wide range and so on.

DT-72A+/72H+/72TH+/72S+/72I+/72MC+/72MR+/72DP+/72T1+/72L+/72TK+/72GP+

Environment Meter Probes with Bluetooth & LCD display

P399



DT-72+ series Environment Meter Probes are professionally designed with completely modern new outlooking. The whole series are equiped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

DT-8321

Temp. / Humidity & Dewpoint Meters

P425



The Laboratory Hand-Held Temperature / Humidity & Dewpoint Meters measure dew point temperature accurately over a wide measurement range

DT-8923

Professional Pressure Gauge

P499



P500

GD-601 Oxygen Concentration Monitor
The 8923 series pressure gauge suitable for measuring air or liquid pressure.Professional industrial appearance structure design. The device measures gauge pressure from 0psi to 500psi, other features include clear zero, display maximum or minimum value, automatic shutdown.

DT-8000/AL-01

Professional Alcohol Tester

P517



Fuel Cell. Alcohol sensor, high accuracy and reliability
Five detection unit selectable (mg/L,mg/100ml,g/L,%BAC,‰BAC)
Two stage acousto-optic alarm for Drink and drunkenness

EMF-90/ DT-97U/93U/96/93HW

Environment Meter Probes with Bluetooth

P407



2" TFT color LCD display, Data transfer to PC via USB(CSV or EXCEL files), Chart function & Data-logger function
EMF-90 Multifunction EMF Meter
DT-97U high-precision CO2 and CO & temperature & humidity meter.
DT-93U HCHO & TVOC & temperature & humidity meter.
DT-96 Mini Particle Counter
DT-93HW is a Mini Hot Wire anemometer with temperature & humidity measurement.

DT-9890

Professional Particle Counter

P507



3.5" TFT 960x480 pixels Color LCD display
Air temperature and humidity, Dewpoint & Wet bulb temperature
Store 10000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms etc
Bluetooth interface with Smart phone APP

DT-73AL/73E/73P/73S/73I/73TH/73G/73MR/ 73L/73C/73A/73T/73MC

Mini Environment Meters

P411



DT-73T	TDS Tester	DT-73TH	Humidity & AirTemperature meter.
DT-73MC	Pinless Moisture Meter	DT-73G	Real-time HCHO and TVOC meter.
DT-73AL	Alcohol Tester	DT-73MR	Moisture Meter
DT-73E	Electromagnetic Wave Tester	DT-73L	Precision Light meter.
DT-73P	Pressure Meter	DT-73C	Carbon Monoxide Meter.
DT-73S	Mini noise sound level meter.	DT-73A	Mini anemometer with air velocity and temperature measurement.
DT-73I	InfraRed Thermometer	Bluetooth interface (Optional)	

MEMS Sensor and Module Sensor

P591



IR-10D MEMS digital infrared SMD thermometer sensor
C9 Infrared Carbon Dioxide Sensor Module
PM5050/3510 Particle sensor
AQM-80 Air quality sensor
VS-20 Vibration sensor

FZ-80/100/960/3840 Real-Time PCR System
AM-384 Nucleic Acid Extraction and Testing All-In-One Machine



FZ-3840 4-channel multiple fluorescence detection, 384 samples can be detected at a time
FZ-100 4-channel multiple fluorescence detection, 16 samples can be detected at a time
FZ-80 2-channel multiple fluorescence detection, 8 samples can be detected at a time
Ergonomics, touch screen tilt design, easy to operate and read the results
Flexible temperature control and fast detection
Configure WiFi function to send and share test reports

Nucleic acid extraction and testing all-in-one machine (AM-384) is an automated work platform integrating sample QR code scanning, sampling, extraction, amplification, fluorescence detection and so on, realizing sample in, result out! The machine has a built-in 24-well extractor and a 384-amplified fluores cence detector, which can meet the needs of multiple target sites or multiple pathogens detection in the same sample.

DT-8808S P563
Non-Contact Forehead InfraRed Thermometers



Precise non-contact forehead temperature measurements
Selectable ℃ or ℉ & forehead heat detection
Selectable Body and Surface temperature
Set alarm value and sound alarm
Measuring distance 1 to 5cm

TQ-16 P546
Nucleic acid extractor



Simple and intelligent operation, with app touch screen
With LED lighting, which can observe the operation status of the instrument in real time
Small size and convenient handling
UV disinfection function to reduce the pollution of samples between different batches

CV-200 P550
Immunochromatography Reader



Rapid reading of colloidal gold test strips by visual recognitio
Support a variety of project testing, can edit the project information in the cloud service management platform, and synchronized to the terminal

HX-610/620/663 P553
Handheld Thermal Vision Monocular



Diverse Modes: Multiple operating modes to cater to varying respiratory requirements.
Precise Pressure Control: Boasts a pressure adjustment precision of 0.5cmH_2O, with support for delayed pressure elevation.

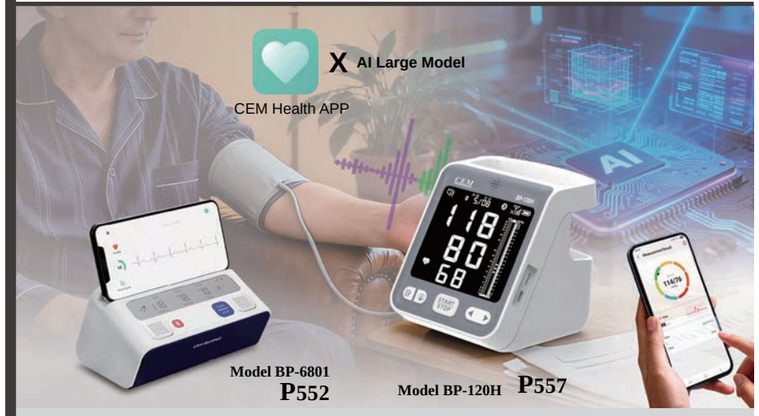
Rich Functions: Comes equipped with automatic air leakage compensation, a 6-level adjustable humidification channel, and more.
Quiet Operation: Operates at a noise level of ≤30dB(A), with some models achieving ≤28dB(A).
APP Data Management: Enables long-term data tracking and evaluation of treatment effectiveness.

OX-97 P559
Pulse Oximeter



OLED display
Oxygen saturation (SpO2)Measurement
Pulse rate (PRbpm) Measurement
Perfusion index (PI%) Measurement
The value flash and beeping alarm indication

BP-120H/6801
Smart Blood Pressure MonitorMedical-Grade Accuracy + AI Health Management



Self-developed neural network algorithm
Double measurement by Kirschner Phonetic + Oscillometric method, more accurate results
Access to AI model, online voice interaction
APP health data analysis, remote transmission

Misoperation tips
Linear air release valve, more stable results
Ergonomic design
Large LCD segment code screen + eye protection backlighting

NEW Energy Charging Solutions

EV-270/280 series
Smart AC/DC Electric Vehicle Charging Unit



Smart and Convenient Mobile App, you can manage your charging network easily, intelligently, and insightfully. The advanced mobile app allows you to track, manage, schedule, and optimize smart EV charging anytime to take advantage of off-peak electricity rates.
Wi-Fi, Bluetooth connectivity options ensure automatic OTA (over-the-air) firmware updates and seamless connectivity and communication with your mobile device. The optional start and stop RFID card functionality can prevent unauthorized use.

EV-230 series P577
AC Electric Vehicle Charging Unit



LED INDICATOR LIGHTS - The LED indicator lights on the charging cable show you where your car is across three different charging levels. It alerts you if a fault is discovered, allowing you to manage the problem right away.

EV-210 series P578
AC EV Charger



This EV car charger adopts for almost all electric cars and plug-in hybrid vehicles.

EV-30 P579
30kW DC Electric Vehicle Charging Unit



Input Voltage: 323 to 480V a.c., 380V a.c. Type
Output Voltage: 150 to 1000V DC
Output Power: 40kW Max

Business & Home & Portable Energy Storage Solutions



CEM provides a solution to generateclean electricity for your own solar-powered home.When it comes to residentials olutions featuring superior safety and easyinstallation, CEM is the ideal choice forhomeowners to going solar. Enjoy your unparalleled experience of green energy.optimal solar energy usage, reducedel ectricity bills and much more.

PW-680/1000 P581
600W/1200W Portable Power Stations



PW-680/1000 Portable power station built-in 600W/1200W bidirectional inverter and LiFePO4 high capacity battery. It's a rechargeable battery-powered generator. Equipped with AC outlet, DC carport and USB charging ports.

MPW-600/700/800 P584
Microinverter



Easy installation, just plug and play
With Reactive Power Control, compliant with VDE-AR-N 4105: 2018 & EN 50549-1: 2019
External antenna for stronger communication with DTU

HPW-6000/15K P585
Solar Storage & Grid-connected Hybrid Inverter



Including photovoltaic access, two-way transmission of battery energy, grid-connected, off-grid, and with EMS (Energy Management System) for energy scheduling, the use of electricity efficiency is the best, load guarantee is the best.





Professional Thermal Imagers P35

9898 Series new generation professional Thermal Imagers with powerful Auto Fusion mode(AUF), AUF is a dynamic image enhancement-algorithm for infrared cameras. 9898 Series are esay to help you to find the potential problems with innovation features and powerful Apps.



Short Wave High Temperature Thermal Imager P43

DB-740 Short wave thermal imager is high performance for 800-1100nm infrared image, which is for temperature measurement above 600ºC . Short wave thermal imager is widely used for continuous inspection of High temperature industrial furnace, such as petrochemical industry, paper pulp & papermaking etc.



Advanced Thermal Imagers P47

988 Series new generation advanced Thermal Imagers are compact design with powerful Auto Fusion mode(AUF), AUF is a dynamic image enhancement-algorithm for infrared cameras. 988 Series are esay to help you to find the potential problems with innovation features and powerful Apps.



High Performance Thermal Imagers P51

980 series have power Auto Fusion (AUF) which is a dynamic image enhancement-algorithm for infrared cameras. 160 × 120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 650°C (-4°F to 1202°F), 32X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hotest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Wi-Fi connectivity allows the Infrared Thermal Camera to send images and data to mobile devices.



Industrial Thermal Imagers P55

979B series the Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, fully radiometric imagers are ideal for troubleshooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.



Compact Thermal Imagers P63

871/870/870L-8 Thermal Imagers are designed to make your work easier, more productive and effective. 80x80 resolution at 50Hz for real-time capture; Temperature range from -20°C to 380°C (-4°F to 716°F). Hot/Cold spot marker automatically finds the hotest and coldest spots. Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send thermal pictures to mobile devices.



Smart Thermal Camera P70

T-09F series
Thermal image snap and record.
Point/Line/Area real-time analysis
Export PDF report
Share thermal image
Show temperature data at real time.
History thermal image analysis
Real-time preview the results of 9 color palettes



Handheld Thermal Vision Monocular P66

T-70/71/72 Handheld Thermal Vision Monucular provide clear images with high IR resolution, easy access to new features such as video & image recording. WIFI connectivity offers video & image real-time share to smartphone/tablet .



Portable thermal camera P68

T-50F series
The 3.5" 320x240 touchscreen LCD offers Auto Fusion function to blend a visible image with an infrared image to more easily locate problems. It can scan the asset's QR code or barcode, help classifying the thermal images into predefined folders.with WiFi function, you can transfer realtime thermal video or images to the smart phone, easily analyse, report and share.



AI Intelligent Thermal Imaging with Temperature Screening

DT-9895Y/9896Y/9897Y/874Y/979Y/870Y/870YS/980Y

is a surface temperature rapid screening infrared thermal imager, temperature measurement accuracy ±0.5°C, temperature measurement range 32°C~42°C, can be handheld or installed tripod. Deploying this product in public places can automatically achieve temperature measurement for long distances, large areas, and large passenger flows.

Thermal Imagers Selection Guide



	DT-05 Series	DT-874 Series	DT-979 Series	DT-988 Series	AI-9886Pro Series	DT-9898 Series
IR resolution	96x96	160x120	256x192	384x288	640x480	640x480
	104x104	120x90	160x120	256x192	384x288	384x288
	160x120	96x96	120x90	160x120	160x120	160x120
Field of View (FOV)	50°x50°	50°x50°	50°x50°	24.6°x19.8°	24.6°x18.6°	28°x21°
Display	2" 240x320	2" 240x320	2.8" 240x320	3.5" 640x480	3.5" 320x240	3.5" 640x480
Object temperature range	–20 to 550°C	–20 to 550°C	–20 to 550°C	–20 to 650°C	–20 to 800°C	–20 to 150°C, 150 to 1500°C
Visible camera			5M	2M	0.3M	5M
WiFi connectivity			*	*		*
Bluetooth	*	*				
Video record			*	*	*	*
Features	Bluetooth Instant share	Bluetooth Instant share Long operate time	Auto fusion (AUF)	Auto fusion (AUF)	Touchscreen	Laser range finding function Autofocus Auto fusion (AUF) Touchscreen

DT-9896/9897/9898/AI-9897
Professional Thermal Imagers with Laser Range Finding Function

Worldwide Patent:
PCT/CN2016/079015

Big brilliant touch screen,clear view from any angle under the sun

IR resolution 640x480 (9898)
Auto fusion mode (AUF)
Laser distance meter function
WiFi connectivity



EMC
EN: 61326-1
EN: 61010-1



Model: 9898

AI-9897

Advanced AI-powered thermal imagers integrate AI algorithms to automatically identify targets (e.g., electrical faults, living organisms) and analyze thermal data in real-time with alerts.

Key advantages include:

- Smart Diagnostics: Rapid anomaly detection with reduced human error;
- Efficient Operations: Predictive maintenance to minimize downtime;
- Multi-Scenario Adaptation: Suitable for industrial inspection, security, medical, etc.;
- Data Visualization: Detailed reporting for decision-making support.

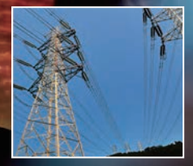
Professional Thermal Imagers

9898 Series new generation High Performance Thermal Imagers with powerful Auto Fusion mode(AUF), AUF is a dynamic image enhancement-algorithm for infrared cameras. 9898 Series are esay to help you to find the potential problems with innovation features and powerful Apps.

Key features

- 3.5" 640x480 Big brilliant touch screen,clear view from any angle under the sun
- 640x480 High Performance Thermal Imager with high resolution TFT color LCD display
- Built-in laser distance function
- Capture additional measurements fast and conveniently with wireless modules
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Picture in Picture function displays thermal image super-imposed over a digital image
- LED Flashlight allows the visual camera and fusion to be used in poorly lit environments
- ±2% Accuracy for reliable temperature measurement
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.

Applications


Power Electronics


Plant/General Maintenance


HVAC/R


Transportation/ Automotive


Cooling and Reheating

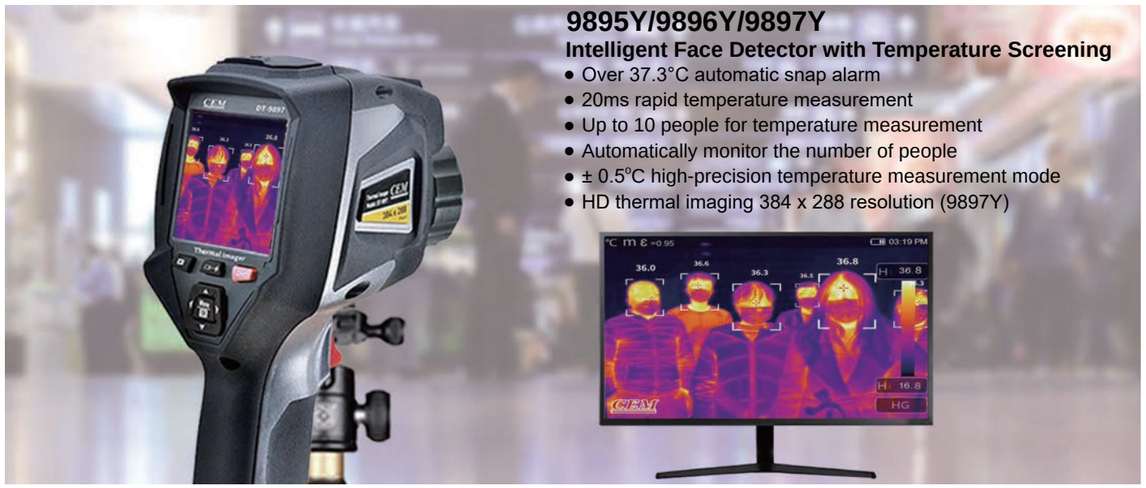

Food service Equipment

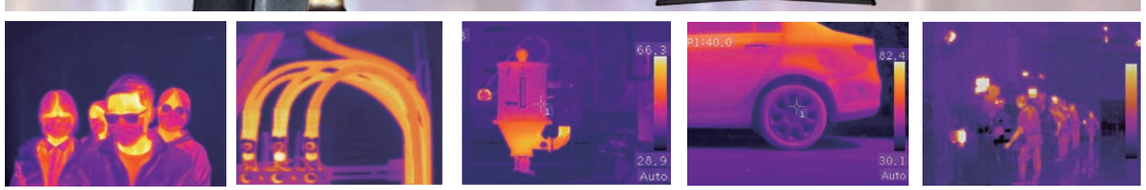
www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com











640x480 3.5" capacitive touch screen | Auto Fusion mode (AUF) | Wi-Fi Connectivity | Large aperture lens | Temperature range up to 1500°C | Laser distance measurement | NETD 50mk | Professional analyse software | 5M visible light digital camera | IP54

Specifications		9895Y	9896/9896Y	9897/9897Y	9898	9899
Imaging and optical data						
IR resolution	Focal plane array (FPA), uncooled microbolometer	160x120	160x120	384x288	640x480	1024x768
Field of View (FOV)	29.8° × 22.6°	17°x13°	17.3°x13°	17°x12.7°	28.3°x21.2°	20°x15°
Spatial resolution	(IFOV)	3.77mrad	1.89mrad	0.77mrad	0.51mrad	0.51mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	*	*	*	*	*
Image frequency	50Hz	*	*	*	*	*
Focus	Manual	*	*	*	*	*
Laser range finding function	0.05 to 30m(0.15ft to 98ft)， Typically: ±2mm(±0.06in)	*	*	*	*	*
Image presentation						
Display	3.5" 640x480TFT , capacitive touch screen	*	*	*	*	*
Image modes	IR image, visual image, picture in picture, AUF, Distance	*	*	*	*	*
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather, Above alarm, Below alarm, Zone alarm, vision zone	*	*	*	*	*
Measurement (Temp. screening mode for 9895Y/9896Y/9897Y)						
Object temperature range	Screenning mode:32°C to 42°C(–89.6°F to +107.6°F)	*	-/*	-/*		
	Low range: –20°C to +150°C (–4°F to +302°F) High range: 0°C to +650°C (+32°F to +1202°F) Extend to 1500°C (2732°F) (optional)	*	*	*	*	*
Accuracy	Screenning mode:±0.5°C (±0.9°F)in 32°Cto42°C ±2°C (±3.6°F) or ±2% of reading in –20°C to 650°C	*	*	*	*	*
Screening temperature range	32°C~42°C	*	-/*	-/*		
Temperature measurement accuracy	±0.5°C (32~42°C, Screening mode) ±2°C, Normal temperature measurement range	*	-/*	-/*		
Blackbody	Blackbody correction support,±0.3°C (±0.54°F) accuracy	*	-/*	-/*		
Measurement analysis						
Face tracking	Intelligent face tracking, detect 10 faces at the same time	*	-/*	-/*		
Hot spot track	Hot spot track in face area and High temperature alarm	*	-/*	-/*		
HDMI	Connect to TV through HDMI with video and alarm voice	*	-/*	-/*		
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks line analyse,area analyse	*	*	*	*	*
Set-up						
Laser / floodlight	< class2 / white LED floodlight	*	*	*	*	*
Language selection	English, Chinese, French, German, Spanish, Japanese, Korean, Portuguese, Italian	*	*	*	*	*
Storage of videos/images						
Storage media	8Gbytes Micro SD card	*	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*	*
Digital camera						
Built-in visible light digital camera	5M Pixels	*	*	*	8M	13M
Data communication interfaces						
USB interfaces	USB-micro, data transform between camera and PC	*	*	*	*	*
	remote control, live video	*	*	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*	*	*
Power system						
Battery	Lithium polymer battery, 4 hours operating time	*	*	*	*	*
Input voltage	DC 5V	*	*	*	*	*
Charging system	AC adapter	*	*	*	*	*

Size(HxWxD): 261mm x 103mm x 128mm Weight: 820g
Accessories: Carrying case, 7.5mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable, Gift box.

Advanced AI-Enabled Thermal Imagers

This advanced thermal imager with integrated AI technology redefines precision and intelligence in thermal imaging detection. It generate high-resolution thermal images in real time, uses built-in AI algorithms to automatically identify abnormal temperature areas and diagnose potential faults, and facilitate work flow with voice annotation and one-click report generation.



AI-9886Pro/9887Pro
Advanced AI-Enabled Thermal Imagers

800x480 4.3" capacitive touch screen | Auto Fusion mode (AUF) | Wi-Fi Connectivity | Large aperture lens | Temperature range up to 1500°C | NETD 50mk | Professional analyse software | 8M visible light digital camera | IP54

Specifications		AI-9886Pro	AI-9887Pro
Imaging and optical data			
IR resolution	Focal plane array (FPA), uncooled microbolometer	384x288	640x480
Field of View (FOV)		17°x12.7°	28.3°x21.2°
Spatial resolution	(IFOV)	0.77mrad	0.51mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	*	*
Image frequency	25Hz	*	*
Focus	Manual	*	*
Image presentation			
Display	4.3" 800x480, ips TFT LCD, capacitive touch screen	*	*
Image modes	IR image, visual image, picture in picture, AUF	*	*
Color palettes	IRON, Rainbow, Black hot, Wite hot, Brown, Blue-red, hot-cold, Feather, Above alarm, Below alarm, Zone alarm, vision zone	*	*
Measurement			
Object temperature range	Low range: –20°C to +150°C (–4°F to +302°F) High range: 0°C to +650°C (+32°F to +1202°F) Extend to 1500°C (2732°F) (optional)	*	*
Accuracy	±2°C (±3.6°F) or ±2% of reading in –20°C to 650°C	*	*
Measurement analysis			
Emissivity adjustable	0.01~1.0 Adjustable	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks spot analyse line analyse,area analyse	*	*
Set-up			
Laser / floodlight	< class2 / white LED floodlight	*	*
Language selection	English, Chinese, French, German, Spanish, Japanese, Korean, Portuguese, Italian	*	*
Storage of videos/images			
Storage media	16Gbytes Micro SD card	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*
Digital camera			
Built-in visible light digital camera	8M Pixels	*	*
Data communication interfaces			
USB interfaces	USB-type C, data transform between camera and PC	*	*
	remote control, live video	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*
Power system			
Battery	Lithium polymer battery, 4 hours operating time	*	*
Input voltage	DC 5V	*	*
Charging system	AC adapter	*	*

Size(HxWxD): 261mm x 103mm x 128mm Weight: 820g
Accessories: Carrying case, 7.5mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, Handstrap, micro SD card, USB cable, Gift box.



Model 9897Pro+

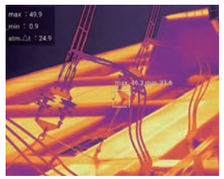
Model 9898Pro+

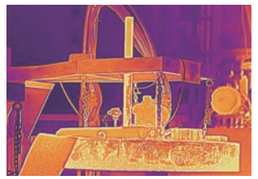
Bluetooth

Wi Fi

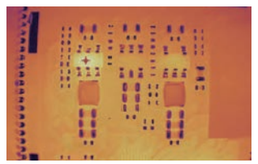
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EMC
EN: 61326-1
EN: 61010-1









Equipped with a new-generation detector with a resolution of 480×360/640×512 and a NETD as low as 35mK, the new DT-9897Pro/9898Pro+ can capture more subtle hotspots, and display sharper and cleaner thermal images. The device has rich and powerful features such as Android OS, trend analysis, area measurement. It is a new strong tool for expert-level full-scene analysis.

Product Highlights

Clear Thermal Images, Precise Temperature Measurement

- Equipped with a 12μm uncooled infrared detector, with a resolution of 640×512/480×360, supporting super resolution.
- NETD as low as 35mK, and measurement accuracy of ±2°C or ±2% of reading (whichever is greater).

Various Lenses and Fast Focusing

- Standard 25° lens, with optional wide-angle, long-focus, ultra-long-focus, and macro lenses, flexible for diverse scenarios.

Functional Upgrade to Improve Efficiency

- Android operating system, more convenient to operate.
- Support intelligent image stabilization, making temperature measurement more stable.
- Support laser rangefinding and area measurement.

Intelligent Analysis, Efficient Temperature Measurement

- Support up to 20 points/lines/areas to analyze more temperature details in the screen.
- Support customized isotherms setting to highlight temperature segments or areas that need more attention.
- Support intelligent routine inspection, enabling import and editing of general task packages, etc.

DT-9897Pro+/9898Pro+
Expert Thermal Camera

Specifications

Thermal Imaging	9897 Pro+	9898 Pro+
Detector Type	12μm uncooled infrared detector	
Infrared Resolution	480×360	640×512
Super Resolution	960×720	1280×1024
Spectral Band	7.5-14μm	
Thermal Sensitivity (NETD)	<35mK (25°C,F1.0)	
Frame Rate	25Hz	
Focal Length	Standard lens: 17.7mm; super telephoto lens: 60.9mm; telephoto lens: 31.5mm; wide-angle lens: 9.5mm; macro lens (0.2×): 13mm; super macro lens (0.4×): 14.8mm.	
FOV	Standard lens: 25°×20°; super telephoto lens: 7°×5.6°; telephoto lens: 14°×11.2°; wide-angle lens: 45°×36°.	
Spatial Resolution (IFOV)	Standard lens: 0.92mrad; super telephoto lens: 0.27mrad; telephoto lens: 0.52mrad; wide-angle lens: 1.71mrad; Macro lens: One pixel corresponds to 60μm; super macro lens: One pixel corresponds to 30μm.	Standard lens: 0.68mrad; super telephoto lens: 0.2mrad; telephoto lens: 0.38mrad; wide-angle lens: 1.26mrad; Macro lens: One pixel corresponds to 60μm; super macro lens: One pixel corresponds to 30μm.
Focus Mode	Manual focus, one-button center focus, automatic center focus, single-touch automatic focus, laser-assisted focus, electric micro focus	
Minimum Imaging Distance	Standard lens: 0.4m; super telephoto lens: 4m; telephoto lens: 3m; wide-angle lens: 0.2m; macro lens: 39mm; super macro lens: 19mm	
Measurement Range	-20°C~+150°C, 100°C~650°C; optional: 400°C~1500°C	
Measurement Accuracy	±2°C or ±2% of readings, whichever is greater.	
Image Display		
Display	5-inch OLED touch screen, resolution 1280×720	
Visible Light Camera	13 megapixels	
Digital Zoom	1× ~ 10×	
Palettes	19 options	
Image Mode	Infrared, visible light, PIP, dual-spectrum fusion	
Temperature Width Stretch	Support	
Measurement and Analysis		
Analysis Functions on the Device	Support up to 15 movable points, lines, frames, circles and polygons,and up to 5 preset modes	Support up to 20 movable points, lines, frames, circles and polygons,and up to 5 preset modes
Trend Analysis	Supports temperature trend recording and analysis.	
Analysis Report	PDF format. Support editing and template importing on the PC client.	
Supporting Software	PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)	
Support function	Laser Rangefinding, Area Measurement, Hygrothermograph, Positioning, Temperature Difference Analysis, Image Freezing	
Image Storage		
Storage Medium	Standard 64GB Micro SD, Support SD, SDHC, SDXC,up to 2TB	
Support function	Text Notes, Voice Notes	

Video Functions	
Radiate Infrared Video Recording	Support compressed full radiation video recording (.irv), up to 25Hz video recording.
Non-radiate Infrared or Visible Light Video Recording	Standard MP4 video recording
Radiate Infrared Video Stream Transmission	TYPE-C/WLAN connection to PC, for real-time transmission of radiation infrared video streams
Non-radiate Infrared Video Stream Transmission	RTSP H.264
Video Resolution	1280x720
System Functions	
Intelligent Panoramic Stitching	Support panoramic stitching on the PC client, and one-click synthesis.
Intelligent Routine Inspection	Supported. General task package import and editing, standard and automatic naming of images
Dual-Spectrum Video Recording	Simultaneous infrared video and visible light video recording, in MP4 format.
Communication Protocol	Wi-Fi, Bluetooth, USB,DP, Type-C to HDMI
Voice Control	Voice assistant, quick command recognition
Support function	Intelligent Image Stabilization, Routine Inspection Record Self-inspection, Flashlight
Others	
Battery	10,000mAh lithium-ion battery, field-replaceable, support fast charging
Charging Mode	USB Type-C or desktop charger
External Interface	USB3.0 Type-C, SD card, SIM card, Mini HDMI

Size(HxWxD): 144mm x 129mm x 307mm Weight: 1.3kg

Accessories: Thermal camera×1, standard lens, lithium-ion battery×2, charging stand, charger, charging cable, Bluetooth headset, SD card 64G, Type-C cable, lens hood, mold drawing, data download card, calibration certificate, certificate of qualification, hand strap , safety box, lens cap (with screws).



Applications

- Chemical Process Detection
- Metal-making Process Detection
- Glass-making Process Detection
- Paper-making Process Detection
- Thermal imager inspection for High temperature industrial furnace
- Impurity detection for molten metal
- Fire protection & Forest fire prevention
- Rocket tracking

CE
EMC
EN: 61326-1
EN: 61010-1

DB-740
Short Wave High Temperature Thermal Imager
CEM

DB-740 Short wave thermal imager is high performance for 800-1100nm infrared image, which is for temperature measurement above 600℃ . Short wave thermal imager is widely used for continuous inspection of High temperature industrial furnace, such as petrochemical industry, paper pulp & papermaking etc.

Features

- High resolution 640x512 pixels
- Wide Temperature Range from 600 to 2000°C targeting electrical and industrial applications
- ±2% Accuracy for reliable temperature measurement
- Thermal imaging through the glass or other transparent medium
- HDMI output
- Capacitive touch screen is easier, productive and effective to operate it
- Lithium polymer Rechargable Battery lasts >4hrs continuous use; replaceable
- High performance with built-in Linux system

Specifications

Imaging and Optical Data	
Field of view (FOV) / Minimum focus distance	22°x 17.6°
Spatial resolution (IFOV)	0.6mrad
Thermal sensitivity/NETD	< 1°C @ +600°C
Image frequency	30Hz
Focus mode	Fixed
Focal length	25mm
Focal Plane Array (FPA)/ Spectral range	Wide Dynamic Range CMOS / 0.8–1.1 µm
IR resolution	640 × 512 pixels
Image presentation	
Display	Capacitive Touch screen, 3.5 in. LCD, 640 × 480 pixels
Image modes	IR image
Color palettes	IRON, Rainbow, Grey, GreyInverted, Sepia, Blue_Red, Hot_Cold, Humidity
Measurement	
Object temperature range	600°C to 2000°C (1112°F to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement Analysis	
Spotmeter	3
Line	2 lines(horizontal and vertical)
Area	3 boxes with max. /min. /average
Automatic hot /cold detection	Auto hot or cold spotmeter markers
Emissivity correction	Variable from 0.01 to 1.0
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature
Storage of videos	
Storage media	4Gbytes Micro SD card
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card >60 minutes
Video storage mode	IR/visual images; simultaneous storage of IR and visual images
Storage of images	
Image storage format	Standard JPEG, including measurement data, on memory card >1000 pictures
Image storage mode	IR images
Set-up	
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
Data communication interfaces	
Interfaces	USB-mini, audio, HDMI video, Micro SD slot
USB	Data transform between camera and PC
Video out	HDMI
Power system	
Battery	lithium polymer battery, 4.5 hours operating time
Input voltage	DC 9V to 12V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown and sleep mode (user selectable)

Size(HxWxD): 243mm x 103mm x 160mm
Weight: 920g
Accessories: Lens, Battery, software, USB cable, Gift box.



Model: 740







EMC
EN: 61326-1
EN: 61010-1

Model: 9885

The Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, and the thermal image creation is based on the temperature variation. Imager Thermometers provide fast and accurate readings for most surface temperature measurements with TFT color LCD display & Imager Video format. Built for tough work environments, these high-performance, fully radiometric imagers are ideal for trouble-shooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

9875Y/9885Y, the measurement accuracy can reach ±0.5°C in the screening mode, the temperature screening range is 35°C~42°C, the system will automatically sound and color alarm when the surface temperature of the measured object reaches 37.3°C
Deploying this product in public places can automatically achieve temperature measurement for long distances, large areas, and large passenger flows.

Key features

- 384x288 High Performance & high resolution Thermal Imager with TFT color LCD display (9885/9887)
- 160x120 High Performance Thermal Imager with high resolution TFT color LCD display (9873 Series)
- Professional IR-optical focus system ensures that images are in good focus for optimum image clarity and scanning convenience.
- Capture additional measurements fast and conveniently with wireless modules (9887 only)
- Meterbox analysis system—quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Picture in Picture function Displays thermal image super-imposed over a digital image
- LED Flashlight allows the visual camera and fusion to be used in poorly lit environments
- Wide Temperature Range from -20 to +400°C targeting electrical and industrial applications
- ±2% Accuracy for reliable temperature measurement
- The image rotation has the ability to automatically rotate the active image
- Audio recorded with the video image acts a speaker to listen to audio recorded with the video image
- Capacitive touch screen is easier, productive and effective to operate it
- Lithium polymer Rechargable Battery lasts >4hrs continuous use; replaceable
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Area (Min/Max) mode shows the Minumum or the Maximum Temperature reading in the selected area
- A conveniently located button activates the laser pointer that will help you associate the hot or cold spot in the thermal image with the real physical target in the field.
- In order to adapt the device to every situation, both wide angle and tele-lenses are available.
- Equipped with standard video, USB outputs as well as a removable SD card.
- The IR video can be streamed to a PC via USB or wifi (DT-9887 only).



Wi-Fi Connectivity/ Bluetooth Communication

Model: 9875



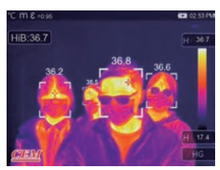
Thermal Imager with Rapid Surface Temperature Screening (9875Y/9885Y)

37.3°C high temperature automatic alarm prompt

50Hz Image frame rate

Infrared lens
Resolution: 384x288 pixels (9885Y)



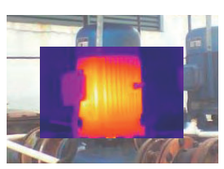




Color Alarm



Full Infrared



Picture-in-Picture



Full visible light



11mm Lens RL-11



38mm Lens RL-38



22mm Lens RL-22



DT-9873B/9875/9885/9875Y/9885Y
High Performance Thermal Imagers

Specifications		9873B	9875/9875Y	9885/9885Y
Imaging and optical data				
IR resolution	160x120pixels, focal plane array (FPA), uncooled microbolometer	*	*	384x288
Field of View (FOV)	29.8° × 22.6°	*	*	24.6°x 18.6°
Minimum focus distance	0.2m (0.66ft.)	*	*	*
Spatial resolution	(IFOV) 3.33 mrad	*	*	2.28 mrad
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK	*	*	*
Image frequency	50Hz	*	*	*
Focus	Manual	*	*	*
Zoom	1-20x continuous, digital zoom	*	*	32x
Rotate	0-360°, continuous change by 1°	*	*	*
Image presentation				
Display	3.5" TFT , capacitive touch screen	*	*	*
Image modes	IR image, visual image, picture in picture	IR image only	*	*
Picture in Picture	IR area on visual image or visual image area on IR	None	*	*
Color palettes	GRAY/GRAY IRON/IRON/RAINBOW/FEATHER	*	*	*
Measurement (Temp. screening mode for 9875Y/9885Y)				
Object temperature range	Low range: –20°C to +150°C (–4°F to +302°F) High range: 0°C to +400°C (+32°F to +752°F)	*	*	*
Accuracy	±2°C (±3.6°F) or ±2% of reading	*	*	*
Screening temperature range	32°C~42°C		-/*	-/*
Temperature measurement accuracy	±0.5°C		-/*	-/*
Test area	1 meter distance: 44cmx33cm		-/*	-/*
	2 meters distance: 88cmx66cm		-/*	-/*
Full-field high-temperature tracking	Red diamond frame mark		-/*	-/*
High temperature alarm setting	Default 37.3°C		-/*	-/*
Measurement analysis				
Spotmeter	3	*	*	*
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*
Emissivity table	Emissivity table of predefined materials	*	*	*
Line	2 lines(horizontal and vertical)	None	*	*
Area	3 boxes with max. /min. /average	None	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks	*	*	*
Isotherm	Detect high/low temperature/interval	None	*	*
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature	*	*	*
Set-up				
Laser / floodlight	< class2 / white LED floodlight	None	*	*
Set-up commands	Local adaptation of units, language, date and time formats, information of camera	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*
Storage of videos/images				
Storage media	4Gbytes Micro SD card	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	IR image only	*	*
Digital camera				
Built-in visible light digital camera	640x480 Pixels	None	*	*
Data communication interfaces				
USB interfaces	USB-mini, data transform between camera and PC	*	*	*
	remote control, live video	None		*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	None		*
Video out	Composite(PAL and NTSC)	*	*	*
Power system				
Battery	Lithium polymer battery, 4 hours operating time	*	*	*
Input voltage	DC 9V to 12V	*	*	*
Charging system	In camera (AC adapter)	*	*	*
Power management	Automatic shutdown and sleep mode (user selectable)	*	*	*
Environmental data				
Encapsulation	IP65	*	*	*
Drop test	2m	*	*	*

Size(HxWxD): 243mm x 103mm x 160mm **Weight:** 920g
Accessories: Hard transport case, 22mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, Camera lens cap, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.



Key features

- 640x480 High Performance Thermal Imager with high resolution TFT color LCD display (9888M)
- 3.5” 640x480 big brilliant touch screen, a clear view from any angle.
- Capture additional measurements fast and conveniently with wireless modules
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Image fusion function displays thermal image super-imposed over a digital image
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.

988 Series new generation advanced Thermal Imagers are compact design with powerful Auto Fusion mode(AUF), AUF is a dynamic image enhancement-algorithm for infrared cameras. 988 Series are easy to help you to find the potential problems with innovation features and powerful Apps.

640x480 3.5" capacitive touch screen

Auto Fusion mode (AUF)

Wi-Fi Connectivity

650°C temperature range

2M visible light digital camera

IP54



Model 9887

Specifications		988	9887	9888M
Imaging and optical data				
IR resolution	Focal plane array (FPA), uncooled microbolometer	160x120	384x288	640x480
Field of View (FOV)	29.8° × 22.6°	20.7°x15.6°	41.5°x31.1°	41.5°x31.1°
Spatial resolution	(IFOV)	1.88mrad	1.89mrad	1.89mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	*	*	*
Image frequency	50Hz	*	*	25Hz
Focus	Manual	*	*	*
Image presentation				
Display	3.5" 640x480 touch screen	*	*	*
Image modes	IR image, visual image, picture in picture, AUF	*	*	*
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather	*	*	*
Measurement				
Object temperature range	Low range: –20°C to 150°C (–4°F to +302°F) High range: 0°C to 650°C (+32°F to +1202°F)	*	*	High range: 0°C to 550°C
Accuracy	±2°C (±3.6°F) or ±2% of reading	*	*	*
Set-up				
Set-up commands	Local adaptation of units, language, date and time formats, information of camera	*	*	*
Language selection	English, Chinese, French, German, Spanish, Japanese, Korean, Portuguese, Italian	*	*	*
Storage of videos/images				
Storage media	4Gbytes eMMC or 8GB SD card	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*
Digital camera				
Built-in visible light digital camera	2M Pixels	*	*	*
Data communication interfaces				
USB interfaces	USB-micro, data transform between camera and PC	*	*	*
	Remote control, live video	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*
Power system				
Battery	Lithium polymer battery, 4 hours operating time	*	*	*
Input voltage	DC 5V	*	*	*
Charging system	In camera (AC adapter)	*	*	*

Size(HxWxD): 233mm x 94mm x 103mm Weight: 520g

Accessories: Hard transport case, 7.5mm lens, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable, Gift box.

High Performance Thermal Imagers









CE EMC
EN: 61326-1
EN: 61010-1

DT-983/984/986H/987/9888
Advanced Thermal Imagers

Key features

- Smart design with big screen occupation ratio
- Capture additional measurements fastly and conveniently with wireless modules
- Find problems faster and easier and accurately identify potential issues by combining digital and IR images
- Image fusion function displays thermal image super-imposed over a digital image and easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.
- Realtime analyse and picture analyse function



Model: 986H

Specifications		983	984	986H	987	9888
Imaging and optical data						
IR resolution	Focal plane array (FPA), uncooled microbolometer	120x120	120x90	256x192	160x120	640x480
Field of View (FOV)		15.6°x15.6°	50°x38°	40.4°x30.3°	42°x32	41.5°x31.1°
Spatial resolution	(IFOV)	2.26mrad	7.3mrad	5.48mrad	4.6mrad	1.89mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C/(+86°F)/50mK	*	*	*	*	*
Image frequency		50Hz	50Hz	25Hz	50Hz	25Hz
Focus	Focus free	*	*	*	*	*
Image presentation						
Display	3.5" 640x480 touch screen	*	*	*	*	*
Image modes	IR image, visual image, picture in picture, AUF	*	*	*	*	*
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather	*	*	*	*	*
Measurement						
Object temperature range	High range: -20°C to 550°C	-20 to 650°C	-20 to 550°C	-20 to 550°C	*	*
Accuracy	±2°C (±3.6°F) or ±2% of reading	*	*	*	*	*
Measurement analysis						
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks	*	*	*	*	*
Set-up						
Laser / floodlight	< class2 / white LED floodlight	*	*	*	*	*
Language selection	English, Chinese, French, German, Spanish, Japanese, Korean, Portuguese, Italian	*	*	*	*	*
Storage of videos/images						
Storage media	4Gbytes eMMC or 8GB SD card	*	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	*	*	*	*	*
Digital camera						
Built-in visible light digital camera	2M Pixels	*	*	*	*	
Data communication interfaces						
USB interfaces	USB-micro, data transform between camera and PC	*	*	*	*	*
	Remote control, live video	*	*	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*	*	*
Power system						
Battery	Lithium polymer battery, 4 hours operating time	*	*	*	*	*
Input voltage	DC 5V	*	*	*	*	*
Charging system	In camera (AC adapter)	*	*	*	*	*
Power management	Automatic shutdown and sleep mode (user selectable)	*	*	*	*	*

Size(HxWxD): 228mm x 100mm x 90mm Weight: 520g
Accessories: Hard transport case, 7.5mm lens, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable, Gift box.

The Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, fully radiometric imagers are ideal for troubleshooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.



CE
EMC
EN: 61326-1
EN: 61010-1

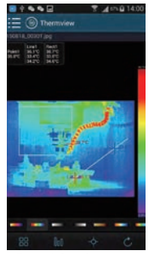
Auto Fusion mode (AUF)
80x80 pixels, FPA, uncooled microbolometer
Annotate images with Voice
Picture in Picture
32X Continuous Zoom
5 Megapixels Digital camera

HDMI High resolution video output
Built-in 100M Memory for 80 pictures or one minute video record
Wi-Fi connectivity
Transfers images and data to mobile devices to share reports and critical information quickly

Thermal Imagers Selection Guide

								
Model number	DT-982H	DT-982	DT-980H	DT-980A	DT-980L-8	DT-980	DT-981	DT-981B
IR resolution	160x120	160x120	160x120	160x120	160x120	160x120	120x160	120x90
Field of View (FOV)	22.6° x 29.8°	22.6° x 29.8°	17° x 13°	17° x 13°	8° x 6°	17° x 13°	20.7° x 15.6°	50 x 38°
IFOV	3.33mrad	3.33mrad	1.89mrad	1.89mrad	0.89mrad	1.89mrad	2.26mrad	5.48mrad
Display	2.8" 240x320							
Object temperature range	–20~650°C	–20~350°C	–20~650°C		–20~350°C			
Visble camera	5M (IR fusion, AUF)						2M (IR fusion, AUF)	
WiFi				*			*	*
Video record	*	*	*	*	*	*	*	*
Probe air Temp. & %RH								

980, 982 (160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 980 series have power auto fusion mode which is a dynamic image enhancement-algorithm for infrared cameras. 160 × 120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 650°C (-4°F to 1202°F), 32X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hotest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Wi-Fi connectivity allows the Infrared Thermal Camera to send images and data to mobile devices.


Powerful analyse

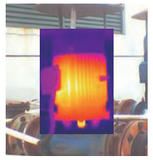

Easy Share

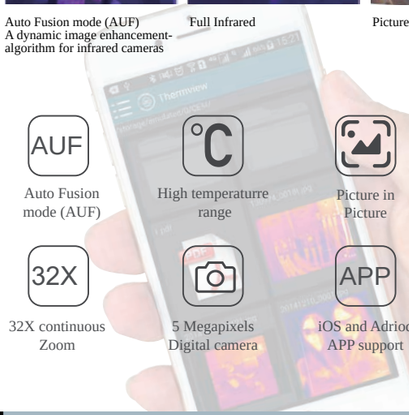


Quickly report


Auto Fusion mode (AUF)
A dynamic image enhancement-algorithm for infrared cameras


Full Infrared


Picture-in-Picture




Model: 982



Wi Fi | AUF
Auto Fusion mode (AUF)
Realtime Wi-Fi analyse

CE EMC
EN: 61326-1
EN: 61010-1

Product characteristics

High Resolution IR Images	19,200 pixels (160x120) Infrared resolution(982)
Visible Light Digital Camera	5 Megapixels Digital camera resolution with flash provides sharp images regardless of lighting conditions
Picture in Picture	Displays thermal image super-imposed over a digital image
LED Flashlight	Allows the visual camera and fusion to be used in poorly lit environments
Wide Temperature Range	From -20 to +650°C targeting electrical and industrial applications
±2% Accuracy	Reliable temperature measurement
Thumbnail view	Easy to view and analyze images quickly
Audio recorded with the video image	A speaker to listen to audio recorded with the video image
Li-Ion Rechargable Battery	>4hrs continuous use; replaceable
HDMI	HDMI High resolution video output
Inside 100M Memory	About 80pictures or one minute video record
Copy to USB	Easy uploads images from camera to USB memory card
Area (Min/Max) Mode	Shows the Minumum or the Maximum Temperature reading in the selected area
Wi-Fi connectivity	Transfers images and data to mobile devices to share reports and critical information quickly (DT-980A/981B/981)
Auto Fusion mode	AUF is a dynamic image enhancement-algorithm for infrared cameras

High temperature color alarm prompt
If the temperature exceeds 37.3°C, a yellow high temperature prompt will appear on the device screen



Model 980Y





Worldwide Patent:
PCT/CN2016/079015

Wi-Fi Connectivity



Model 980Y

Specifications	980B	980/980H/980Y	980A	980L-8	981B	981	982/982H/982Y
Imaging and optical data							
IR resolution	160×120 pixels	160×120 pixels	160×120 pixels	160×120 pixels	120×90 pixels	120×160 pixels	160×120 pixels
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm						
Focal length	7.5mm	9mm	9mm	19mm	7.5mm	6.2mm	9mm
Field of View (FOV)	21x15.6°	17x13°	17x13°	8x6°	50x30.8°	20.7x15.6°	22.6x29.8°
Minimum focus distance	0.2m						
Spatial resolution	2.26mrad	1.89mrad	1.89mrad	0.89mrad	5.48mrad	2.26mrad	3.33mrad
Thermal sensitivity/NETD	< 0.08°C /80mK						
Image frequency	50Hz						
Focus	Manual						
Zoom	1-32x continuous, digital zoom						
Image presentation							
Image modes	IR image, visual image, picture in picture, AUF						
Picture in Picture	IR area on visual image						
Color palettes	IRON/Rainbow/Grey/Grey Inverted						
Measurement (Temp. screening mode for 980Y/982Y)							
Object temperature range	Screenning mode: 32°C to 42°C(-89.6°F to 107.6°F) (980Y/982Y)						
	-20 to 150°C (-4 to 302°F), 0 to 350°C (32 to 662°F), extended to -20 to 650°C (980H, 982H)						
Accuracy	Screenning mode: ±0.5°C (±0.9°F)in 32°C to 42°C (980Y/982Y)						
	±2°C (±3.6°F) or ±2% of reading						
Screening temperature range	32~42°C (980Y/982Y)						
Temperature measurement accuracy	±0.5°C (980Y/982Y)						
Test area	1 meter distance: 44cmx33cm (980Y/982Y)						
	2 meters distance: 88cmx66cm (980Y/982Y)						
Full-field high-temperature tracking	Red crosshair mark (980Y/982Y)						
High temperature alarm setting	Default 37.3°C (980Y/982Y)						
Measurement analysis							
Spotmeter	Center Spot,Auto hot or cold markers						
Set-up							
Language selection	English, Chinese, French, German, Spanish						
Storage of videos/images							
Inside Memory / Storage media	100M bytes, 80pictures or one minute video record / 8G Micro SD card						
Video storage format	Standard MPEG-4, 1280x960@30fps, on memory card > 60 minutes						
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures						
Digital camera							
Built-in visible light digital camera	No	5Megapixels; 59°					5Megapixels; 59°
Data communication interfaces							
Interfaces &Video output	USB-micro, audio, HDMI						
USB	Data & Live video transform between camera and PC or smartphone						
WIFI							
Live video between device and PC	No	No	Yes	No	Yes	Yes	No
Transfer images and data to mobile devices	No	No	Yes	No	Yes	Yes	No
Power system							
Battery / Input voltage / Laser	Li-ion battery, 4 hours operating time / DC 5V / < 1mW						

Size(HxWxD): 224mm x 77mm x 96mm Weight: 500g
Accessories: Lens, Earphone(Optional), Battery, software CD-ROM, Wrist strap, micro SD card, Adaptor, USB cable & HDMI cable (Optional), Gift box.



Specifications		997B	997C	997D	997E
Imaging and Optical Data					
Field of View		50x38°	42x 32°	50x38°	50x38°
Spatial Resolution		3.75mrad	4.6mrad	7.3mrad	7.3mrad
NETD	<0.05°C@30°C(80°F)/50mK	*	*	*	*
Image Frequency	25Hz	25Hz	25Hz	25Hz	25Hz
Focus Mode	Focus free	*	*	*	*
Focal Plane Array(FPA) Spectral Range	Uncooled microbolometer/8-14um	*	*	*	*
IR Resolution		256x192	160x120	120x90	96x96
Image Presentation					
Display	3.2" IPS LCD, 240x320 pixels	*	*	*	*
Color Palettes	IRON, RainBow, Grey, GreyInverted, Brown, Blue-red, hot-cold, Feather	*	*	*	*
Measurement					
Object Temperature Range	-20°C to 550°C (-4°F to 1022°F)	*	*	*	*
Accuracy	±2°C(±3.6°F) or ±2% of reading	*	*	*	*
Measurement Analysis					
Spotmeter	Center Spot	*	*	*	*
Automatic Hot/Cold Detection	Auto hot or cold markers		*	*	*
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*			
Storage of videos/images					
Storage media	4Gbytes eMMC or 8GB SD card	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	*	*	*	*
Power System					
Battery	Li-ion battery, 4 hours operating time	*	*	*	*
Input Voltage	DC 5V	*	*	*	*
Charging System	In camera(AC adapter)	*	*	*	*
Power Management	Automatic shutdown	*	*	*	*
Environmental Data					
Operting Temperature Range	-20°C to 50°C (-4°F to 122°F)	*	*	*	*
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	*	*	*	*
Humidity(operating and storage)	10% to 90%	*	*	*	*
Drop test/ Digitl camer	2m/ 2M pixel	*	*	*	*

Size(HxWxD): 224mm x 72mm x 90mm Weight: 480g
Accessories: Lens, Earphone(Optional), Battery, software CD-ROM, Wrist strap, micro SD card, Adaptor, USB cable & HDMI cable (Optional), Gift box.

High Performance Thermal Imagers



DT-979B/979D/979E/979F/979G
Industrial Thermal Imagers

240x320 2.8" LCD display

Auto Fusion mode (AUF)

550°C temperature range

Non-contact temperature measurement

2M visible light digital camera

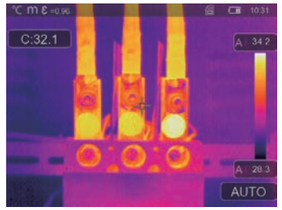
IP54



Model 979B



Macro lens



Specifications		979B	979D	979E	979F	979G	979Z
Imaging and Optical Data							
Field of View	21x 21°	56x42°	32x24°	50x38°	50x38°	42x 32°	56x42°
Spatial Resolution	4.53mrad	3.75mrad	3.3mrad	7.3mrad	7.3mrad	4.6mrad	3.75mrad
NETD	<0.1°C@30°C(80°F)/100mK	*	*	*	*	*	*
Image Frequency	50Hz	25Hz	50Hz	25Hz	25Hz	25Hz	25Hz
Focus Mode	Focus free	*	*	*	*	*	*
Focal Plane Array(FPA) Spectral Range	Uncooled microbolometer/8-14um	*	*	*	*	*	*
IR Resolution		256x192	160x120	120x90	96x96	160x120	256x192
Image Presentation							
Display	2.8" TFT LCD, 240x320 pixels	*	*	*	*	*	*
Color Palettes	IRON, RainBow, Grey, GreyInverted, Brown, Blue-red, hot-cold, Feather	*	*	*	*	*	*
Measurement							
Object Temperature Range	-20°C to 550°C (-4°F to 1022°F)	*	*	*	*	-20to 400°C	*
Accuracy	±2°C(±3.6°F) or ±2% of reading	*	*	*	*	*	*
Measurement Analysis							
Spotmeter	Center Spot	*	*	*	*	*	*
Automatic Hot/Cold Detection	Auto hot or cold markers		*	*	*	*	
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*	*				*
Storage media	4Gbytes eMMC or 8GB SD card	*	*	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	*	*	*	*	*	*
Power System							
Battery	Li-ion battery, 4 hours operating time	*	*	*	*	*	*
Input Voltage	DC 5V	*	*	*	*	*	*
Charging System	In camera(AC adapter)	*	*	*	*	*	*
Power Management	Automatic shutdown	*	*	*	*	*	*
Environmental Data							
Operting Temperature Range	-20°C to 50°C (-4°F to 122°F)	*	*	*	*	*	*
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	*	*	*	*	*	*
Humidity(operating and storage)	10% to 90%	*	*	*	*	*	*
Drop test/ Digital camera	2m/ 2M pixel	*	*	*	*	*	*

Size(HxWxD): 224mm x 72mm x 90mm Weight: 480g
Accessories: Lens, Earphone(Optional), Battery, software CD-ROM, Wrist strap, micro SD card, Adaptor, USB cable & HDMI cable (Optional), Gift box.

High Performance Thermal Imagers

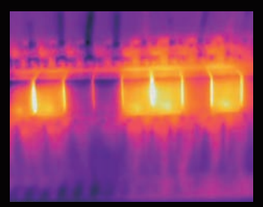
890(80x80), 891 (120x90), 892(160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 160x120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 450°C (-4°F to 842°F). Hot/Cold spot marker automatically finds the hotest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send data to mobile devices.

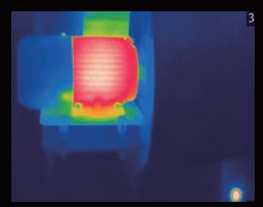


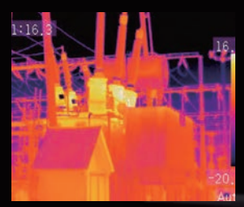
160x120
IR resolution

NETD
< 0.1°C
Thermal sensitivity
< 0.1°C (0.18°F) @ 30°C











890(120x120), 891(120x90), 892(160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 160x120 resolution at 50Hz for real-time capture; Temperature range from -20°C to 450°C (-4°F to 842°F). Hot/Cold spot marker automatically finds the hotest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send data to mobile devices.





EMC
EN: 61326-1
EN: 61010-1

Specifications		890	891	892
Imaging and Optical Data				
Field of View		25.6x15.6	50x38	31x23
Spatial Resolution	2.26mrad	2.26	7.3	3.33mrad
NETD	<0.1°C@30°C(80°F)/100mK	*	*	*
Image Frequency	50Hz	*	25Hz	*
Focus Mode	Focus free	*	*	*
Focal Plane Array(FPA)/ Spectral Range	Uncooled microbolometer/8-14um	*	*	*
IR Resolution		120x120	120x90	160x120
Image Presentation				
Display	2" TFT LCD, 240x320 pixels	*	*	*
Color Palettes	IRON	*	*	*
Measurement				
Object Temperature Range	-20°C to 450°C (-4°F to 842°F)	*	*	*
Accuracy	±2°C(±3.6°F) or ±2% of reading	*	*	*
Measurement Analysis				
Spotmeter	Center Spot	*	*	*
Automatic Hot/Cold Detection	Auto hot or cold markers	*	*	*
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*	*	*
Storage of Images		*	*	*
Storage Media	8 Gbytes Micro SD card	*	*	*
Image Storage format	Bitmap(BMP),including measurement data.	*	*	*
Data Communication Interfaces				
Interfaces	USB-micro, Data transform between camera and PC	*	*	*
Bluetooth		*	*	*
Power System				
Battery	Li-ion battery, 8 hours operting time	*	*	*
Input Voltage	DC 5V	*	*	*
Charging System	In camera(AC adapter)	*	*	*
Power Management	Automatic shutdown	*	*	*
Environmental Data				
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)	*	*	*
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	*	*	*
Humidity(operating and storage)	10% to 90%	*	*	*
Drop test	2m	*	*	*

Size(HxWxD): 180mm x 58mm x 70mm
Weight: 480g

Accessories: Battery, software
CD-ROM, Wrist strap, micro SD card, Adaptor,
USB cable, Gift box.



Model: 890



Model: 892





High Performance Thermal Imagers



Key features

- 25Hz fast frame rate, fast capture temperature varies
- High temperature range, more application situation
- Simple operate, easy to use
- Smart design, Portable,Small and lightweight to carry with you anywhere
- Durable, withstand up to a 2m drop
- IP54 waterproof level
- Flashlight

DT-873/873Pro/874/874Pro/875/876
Industrial Thermal Imagers

876/875/874/873 Thermal Imagers are designed to make your work easier, more productive and effective. 80x80 resolution at 50Hz for real-time capture; Temperature range from -20°C to 400°C (-4°F to 752°F). Hot/Cold spot marker automatically finds the hotest and coldest spots. Lithium polymer battery & power supply, and USB cable. WiFi connectivity allows the Infrared Thermal Camera to send thermal pitctures to mobile devices.

240x320 2.4" LCD display

AUF
Auto Fusion mode (AUF)

550°C
550°C temperature range


Macro lens

2M visible light digital camera

IP54
IP54



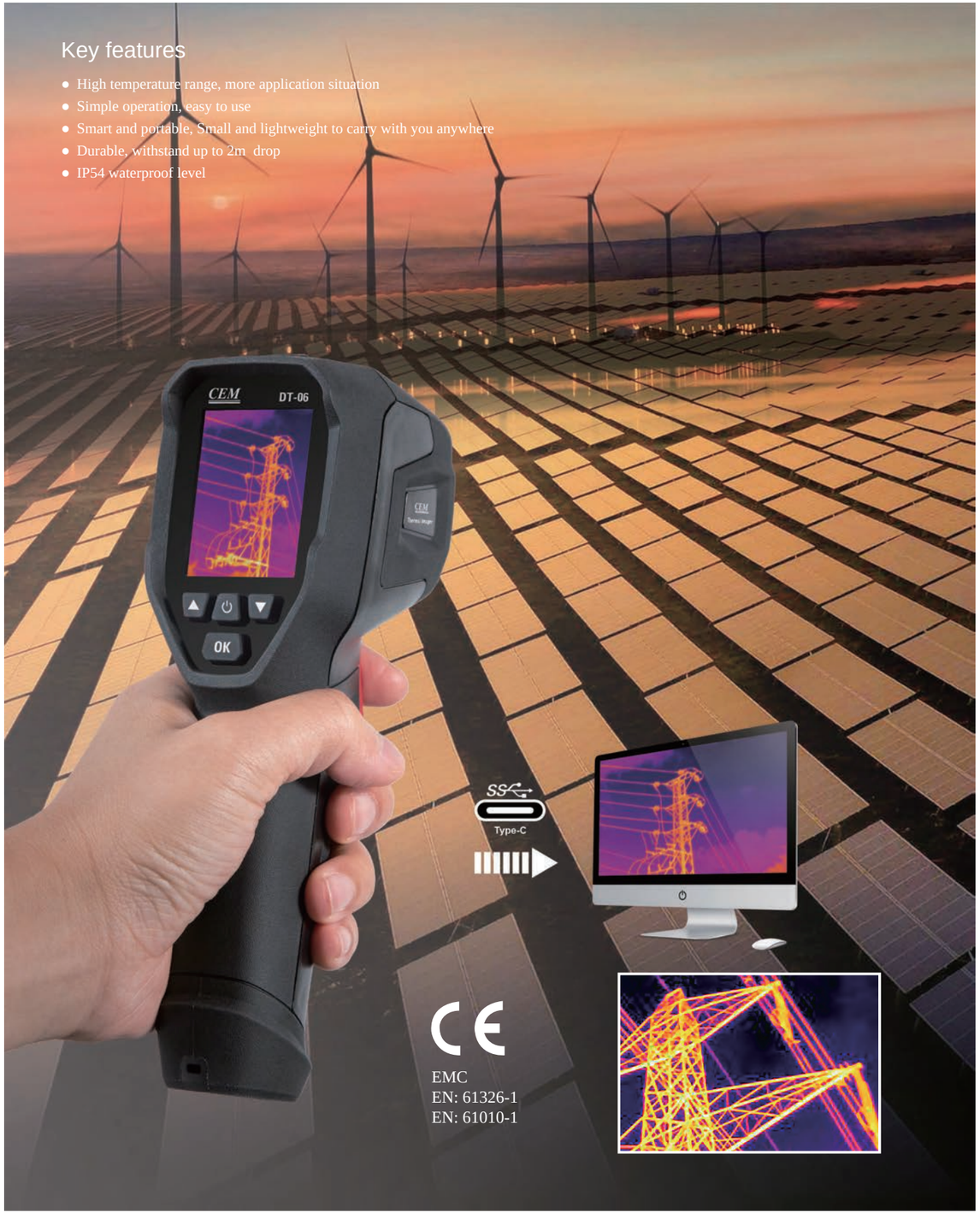
Model: 874

CE
EMC
EN: 61326-1
EN: 61010-1

Specifications		876	875	874/874Pro	873Pro	873
Imaging and Optical Data						
Field of View		56x42°	42x32°	50x38°	50x38°	50x38°
Spatial Resolution	4.53mrad	3.75mrad	4.6mrad	7.3mrad	7.3mrad	7.3mrad
NETD	<0.1°C@30°C(80°F)/100mK	*	*	*	*	*
Image Frequency	25Hz	*	*	*	*	*
Focus Mode	Focus free	*	*	*	*	*
Focal Plane Array(FPA) Spectral Range	Uncooled microbolometer/8-14um	*	*	*	*	*
IR Resolution		256x192	160x120	120x90	104x104	96x96
SuperResolution X4		512x384	320x240	240x180	208x208	192x192
Visible camera	2M	*	*	*	*	*
Image mode	IR/Visible/Picture in Picture/AutoFusion	*	*	*	*	*
Image Presentation						
Display	2.4" TFT LCD, 240x320 pixels	*	*	*	*	*
Color Palettes	Iron, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather	*	*	*	*	*
Measurement						
Object Temperature Range	-20°C to 550°C (-4°F to 1022°F)	*	*	*	*	*
Accuracy	±2°C(±3.6°F) or ±2% of reading	*	*	*	*	*
Measurement Analysis						
Spotmeter	Center Spot	*	*	*	*	*
Automatic Hot/Cold Detection	Auto hot or cold markers		*	*	*	*
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*	*			
Storage of Images		*	*	*	*	*
Image Storage format	Bitmap(BMP),including measurement data.		*	*	*	*
Data Communication Interfaces Bluetooth		*	*	*	*	
Power System						
Battery	Li-ion battery, 4 hours operating time	*	*	*	*	*
Input Voltage	DC 5V	*	*	*	*	*
Charging System	In camera(AC adapter)	*	*	*	*	*
Power Management	Automatic shutdown	*	*	*	*	*
Environmental Data						
Operting Temperature Range	-20°C to 50°C (-4°F to 122°F)	*	*	*	*	*
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	*	*	*	*	*
Humidity(operating and storage)	10% to 90%	*	*	*	*	*
Drop test	2m	*	*	*	*	*

Size(HxWxD): 210mm x 62mm x 105mm Weight: 450g
Accessories: Battery, APP software, Adaptor, Carrying case, USB cable, Gift box.

Industrial Thermal Imagers



DT-05/05Pro/06/06Pro/07/07C
Industrial Thermal Imagers

DT-05 (96x96), DT-06 (120x90), DT-07(160x120), DT-07C(160x120), Thermal Imagers are designed to make your work much easier, more productive and effective. 160x120 resolution at 25Hz for real-time capture; Temperature range from -20°C to 550°C (-4°F to 1022°F). Hot/Cold spot marker automatically find the hotest and coldest spots.

240x120 2.0" LCD display

550°C temperature range

IP54



Macro lens

Specifications

	DT-05Pro	DT-06Pro	DT-06	DT-07	DT-05	DT-07C
IR resolution	96x96	104x104	120x90	160x120	96x96	160x120
SuperResolution X4	192x192	208x208	240x180	320x240	192x192	320x240
Image frequency	25Hz	25Hz	25Hz	25Hz	25Hz	50Hz
Pixel size	12μm	12μm	12μm	12μm	12μm	17μm
Field of view (FOV) / Minimum focus distance	50°x38°/ 0.5m	50°x38°/ 0.5m	50°x38°/ 0.5m	42°x32°/ 0.5m	50°x38°/ 0.5m	34°x23°/ 0.5m
Visible camera	2M	2M	2M	2M		
Image mode	IR/Visible/Picture in Picture/AutoFusion				IR image only	
Object temperature range	-20 to 150°C (-4 to 302°F) 0 to 550°C 32 to 1022°F	-20 to 150°C (-4 to 302°F) 0 to 550°C 32 to 1022°F	-20 to 150°C (-4 to 302°F) 0 to 550°C 32 to 1022°F	-20 to 150°C (-4 to 302°F) 0 to 550°C 32 to 1022°F	-20 to 150°C (-4 to 302°F) 0 to 550°C 32 to 1022°F	-20 to 150°C (-4 to 302°F) 0 to 550°C 32 to 1022°F
Display	2.0" 240x120 TFT screen					
Color palettes	Iron, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather,					
Spot	Center Spot					
Automatic hot/cold detection	Auto hot or cold markers					
Storage media	4Gbytes eMMC					
Image storage format	Standard JPEG, or HIR files including measurement data, on memory card >6000 pictures					
Interfaces	USB Type-C					
Battery	Li-ion battery, 4 hours operating time					

Size(HxWxD): 180mm x 58mm x 70mm
Weight: 480g
Accessories: LI-ion battery, software, CD-ROM, micro SD card, Adaptor, USB cable, Gift box.



EMC
EN: 61326-1
EN: 61010-1



Model DT-05



Model DT-06

871/870/870L-8 Thermal Imagers are designed to make your work easier, more productive and effective. 120x120 resolution at 50Hz for real-time capture; Temperature range from -20°C to 380°C (-4°F to 716°F). Hot/Cold spot marker automatically finds the hotest and coldest spots. Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send thermal pitctures to mobile devices.

Key features

- 50Hz fast frame rate, fast capture temperature varies
- High temperature range, more application situation
- Simple operate, easy to use
- Smart design, Portable,Small and lightweight to carry with you anywhere
- Durable, withstand up to a 2m drop
- IP54 waterproof level
- Flashlight

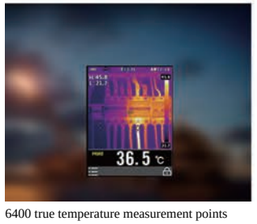




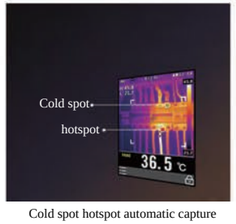
DT-870YS

Surface temperature rapid screening thermal Imager

DT-870YS supports an external pad large screen, which can achieve simultaneous temperature measurement by multiple people in the public place when checking the fever personnel. Using the Thermalguard software pre-installed on the pad, you can directly read the measurement data, the number of people, and the number of reaing than 37.3°C on the big screen. In the screening mode, the measurement range is 32°C~42°C, and the measurement accuracy is ±0.5°C.

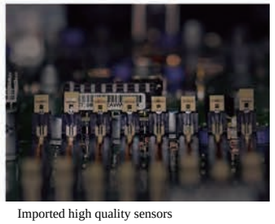


6400 true temperature measurement points



Cold spot hotspot automatic capture


Bluetooth transfer data in real time


Imported high quality sensors

DT-871/870/870L-8/870Y/870YS
Compact Thermal Imagers



By locking the current on-site temperature range to obtain better image effects, It is more convenient to find the temperature problem of the measured object.



Specifications		871	870	870Y	870YS	870L-8
Imaging and Optical Data						
Field of View	15.6x 15.6°	50x38°	*	*	*	6x6°
Spatial Resolution	4.53mrad	7.3mrad	*	*	*	0.89mrad
NETD	<0.1°C@30°C(80°F)/100mK	*	*	*	*	*
Image Frequency	50Hz	*	*	*	*	*
Focus Mode	Focus free	*	*	*	*	*
Focal Plane Array(FPA) Spectral Range	Uncooled microbolometer/8-14um	*	*	*	*	*
IR Resolution		120x90	120x120	120x120	120x120	120x120
Image Presentation						
Display	2" TFT LCD, 240x320 pixels	*	*	*	*	*
Color Palettes	IRON, RainBow, Grey, GreyInverted	*	*	*	*	*
Measurement (Temp. screening mode for 870Y/870YS)						
Object Temperature Range	-20°C to 380°C (-4°F to 716°F)	*	*	*	*	*
Accuracy	± 2°C(± 3.6°F) or ±2% of reading	*	*	*	*	*
Screening temperature range	32~42°C (–89.6°F to +107.6°F)			*	*	
Temperature measurement accuracy	±0.5°C			*	*	
Test area	1 meter distance: 35cmx35cm			*	*	
	2 meters distance: 70cmx70cm					
Full-field high-temperature tracking	Red crosshair mark			*	*	
High temperature alarm setting	Default 37.3°C			*	*	
High-temperature tracking	Red crosshair mark			*	*	
High temperature alarm tone				*	*	
Pad	10in display,8M visible camera,Android sysstem				*	
Face detection	5 face detection at the same time, hot spot track in face area and High temperature alarm				*	
Face capture				*	*	
Measurement Analysis						
Spotmeter	Center Spot	*	*	*	*	*
Automatic Hot/Cold Detection	Auto hot or cold markers		*	*	*	*
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*	*	*	*	
Storage of Images		*	*	*	*	*
Image Storage format	Bitmap(BMP),including measurement data.		*	*	*	*
Data Communication Interfaces						
Bluetooth		*	*	*	*	*
Power System						
Battery	Li-ion battery, 4 hours operating time	*	*	*	*	*
Input Voltage	DC 5V	*	*	*	*	*
Charging System	In camera(AC adapter)	*	*	*	*	*
Power Management	Automatic shutdown	*	*	*	*	*
Environmental Data						
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)	*	*	*	*	*
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	*	*	*	*	*
Humidity(operating and storage)	10% to 90%	*	*	*	*	*
Drop test	2m	*	*	*	*	*

Size(HxWxD): 175mm x 58mm x 70mm Weight: 450g
Accessories: Battery, APP software, Adaptor, Carrying case, USB cable, Gift box.

T-82Pro Handheld Thermal Vision Monocular provide clear images with 640x480 high IR resolution, easy access to new features such as video & image recording. WIFI connectivity offer video & image real time share to smartphone/tablet .





Model T-81





Specifications	T-81	T-82	T-81 Pro	T-82 Pro
Imaging and optical data				
IR resolution	400x300	640x512	384x288	640x480
Pixel size	12um	12um	17um	17um
Field of View (FOV)	11°x8.3°	17.6°x13.2°	14.9°x11.2°	24.9°x18.7°
Spatial resolution	0.48mrad (IFOV)	0.48mrad (IFOV)	0.68mrad (IFOV)	0.68mrad (IFOV)
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK			
Image frequency	50Hz			
Len	25mm	25mm	25mm	25mm
Image presentation				
Display	1.44" 640x480 LCOS		3.99" 1280x1024 OLED	
Color palettes	IRON/GREY/ HOT RED/ COLD BLUE			
Zoom	X2, X4, X8			
Bird watching mode	Yes			
Set-up				
Laser indication	*	*	*	*
Storage of videos/images				
Storage media 16Gbytes	*	*	*	*
Video storage format Standard MPEG-4	*	*	*	*
Image storage format Standard JPEG	*	*	*	*
Data communication interfaces				
USB interface	*	*	*	*
Wi-Fi connectivity			*	*
External display interface CVBS	*	*	*	*

Size(HxWxD): 48 x 50x 180mm **Weight: 370**g
Accessories: Gift box.

T-70B/70/71/72 Handheld Thermal Vision Monocular provide clear images with high IR resolution, easy access to new features such as video & image recording. WIFI connectivity offer video & image real time share to smartphone/tablet .

Specifications	T-70B	T-70	T-71	T-71Pro	T-72
Imaging and optical data					
IR resolution	120x120	120x120	160x120	256x192	384x288
Field of View (FOV)	21x21°	8x8°	8.2°x6.1°	16°x12°	17°x12°
Spatial resolution	4.53mrad (IFOV)	1.79mrad (IFOV)	0.89mrad (IFOV)	1.09mrad (IFOV)	0.77mrad (IFOV)
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK				
Image frequency	50Hz				
Len	7.5mm F1.0	19mm F1.0	19mm	11mm	19mm
Image presentation					
Display	1.44" 720x576 EVF				
Color palettes	IRON/GREY/ HOT RED/ COLD BLUE				
Set-up					
Laser / floodlight	< class2 / white LED floodlight				
Set-up commands	Local adaptation of units, language, date and time formats, information of camera				
Language selection	English, Chinese, French, German, Spanish				
Storage of videos/images					
Storage media	4Gbytes eMMC internal				
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card < 60 minutes				
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures				
Data communication interfaces					
USB interface	Data transform between camera and PC				
	Remote control, live video				
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video				



Size(HxWxD): 48 x 50x 180mm **Weight: 370**g
Accessories: Gift box.



T-30F/30Pro/32/32Pro/33/33Pro/34

Portable Thermal Camera

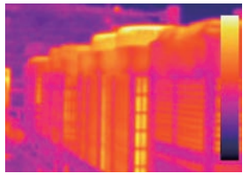
The portable thermal camera series are easy to use, USB rechargeable. They can quickly scan the temperature of electrical equipment, machinery, and other assets. They provide high and low temperature points, crosshairs to pin-point specific temperatures, and options for temperature alarms.



Model T-30F

CE

EMC
EN: 61326-1
EN: 61010-1





Specifications

Mode	T-30F	T-30Pro	T-32	T-32 Pro	T-33	T-33 Pro	T-34
IR resolution	96x96	104x104	120x90	120x90	160x120	160x120	256x192
Image frequency	25Hz	208x208	25Hz	25Hz	25Hz	25Hz	25Hz
Pixel size	12μm	12μm	17μm	17μm	12μm	12μm	12μm
Field of view (FOV) / Minimum focus distance	34°x23°/ 0.5m	34°x23°/ 0.5m	50°x38°/ 0.5m	50°x38°/ 0.5m	42°x32°/ 0.5m	42°x32°/ 0.5m	56°x42°/ 0.5m
Object temperature range	-20 to 150°C (-4 to 302°F)		-20 to 150°C (-4 to 302°F)		-20 to 150°C (-4 to 302°F)	-20 to 150°C (-4 to 302°F)	-20 to 400°C (-4 to 752°F)
	0 to 550°C 32 to 1022°F		0 to 550°C 32 to 1022°F		0 to 550°C 32 to 1022°F	0 to 550°C 32 to 1022°F	0 to 550°C 32 to 1022°F
Built-in digital camera		2M		2M		2M	2M
Display	2.8" 320x240 TFT screen						
Color palettes	Iron, Rainbow, Black hot, White hot, Brown, Blue-red, hot-cold, Feather, Above alarm, Below alarm, Zone alarm,						
Spot	Center Spot						
Automatic hot/ cold detection	Auto hot or cold markers						
Storage media	3.5GB EMMC + MicroSD card						
Image storage format	Standard JPEG, or HIR files including measurement data, on memory card >6000 pictures						
Interfaces	USB Type-C						
Battery	Li-ion battery, 4 hours operating time						



Macro lens

320x240
2.8" TFT screen

2M visible light digital camera

550°C
550°C temperature range

IP54
IP54

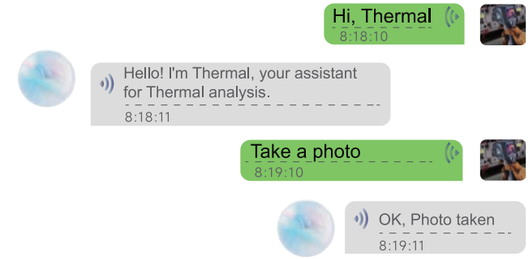
Size(HxWxD): 90X85X25mm **Weight:** 115g
Accessories: USB cable, Gift box.



T-50B/50F/60F/65F/60AI

Portable Thermal Camera

This advanced thermal imager with integrated AI technology redefines precision and intelligence in thermal imaging detection. It not only generates high-resolution thermal images in real time, but also uses built-in AI algorithms to automatically identify abnormal temperature areas and diagnose potential faults, and supports voice annotation and one-click report generation.





Model T-60AI

Specifications

	T-50B	T-50F	T-60F/60AI	T-65F
IR resolution	120x90	120x90	160x120	256x192
Image frequency	25Hz	50Hz	25Hz	25Hz
Pixel size	17μm	17μm	17μm	17μm
Field of view (FOV) / Minimum focus distance	50°x38°/ 0.5m	50°x38°/ 0.5m	42°x32°/ 0.5m	56°x42°/ 0.5m
Object temperature range	-20 to 150°C (-4 to 302°F)	-20 to 150°C (-4 to 302°F)	-20 to 150°C (-4 to 302°F)	-20 to 150°C (-4 to 302°F)
	0 to 400°C (32 to 752°F)	0 to 550°C (32 to 1022°F)	0 to 550°C (32 to 1022°F)	0 to 550°C (32 to 1022°F)
Built-in digital camera		2M	2M	2M
Display	3.5" 320x240 Capacitive touch screen	3.5" 640x480 Capacitive touch screen		
Image modes	IR image	IR image, Visual image, Picture in picture, Auto fusion		
Area		Three areas analyse		
Storage media	8GB SD Card	3.5GB internal EMMC & 8GB SD Card		
Video storage format		Standard MPEG-4 encode, 640x480@30fps, on memory card		
Image storage format	BMP	Standard JPEG,or HIR files including measurement data, on memory card >6000 pictures		
Wifi		802.11, transfer images and realtime video stream.		
Interfaces	USB type-C			
Battery	Li-ion battery, 4 hours operating time			
Color palettes	Iron, Rainbow, Black hot, White hot, Brown, Blue-red, hot-cold, Feather, Above alarm, Below alarm, Zone alarm,			
Spot	Center Spot, Three manual spots			
Automatic hot/cold detection	Auto hot or cold markers			

CE

EMC
EN: 61326-1
EN: 61010-1



Macro lens

AUF
Auto Fusion mode (AUF)

QR Code Scan

640x480 3.5" capacitive touch screen

160x120 focal plane array (FPA)

Wi-Fi Connectivity

IP54
IP54

Size(HxWxD): 80 x 52 x 18mm **Weight:** 196g **Accessories:** USB cable, Gift box.



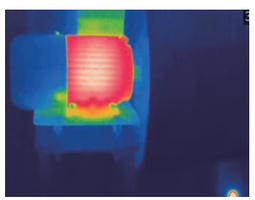
Electrical inspection



Building inspection



Wilderness exploration



Industrial inspection

Inspect out-of-reach targets with the Wireless Thermal Camera. This infrared imager connects to your iOS/Android smartphone wirelessly enabling one-handed inspections while imaging functions, such as Thermview technology allow you to capture clear, detailed thermal images from any angle which may be instantly uploaded to Cloud.



Model T-30

Features

- Thermal imager that wirelessly connects to your iOS/Android smartphone
- Inspect out-of-reach targets
- Thermal resolution: up to 256x192
- Temperature range: -20°C to 550°C
- Identify and locate moisture intrusion
- Find insulation deficiencies
- Suitable for HVAC/R inspections
- Pinpoint faults in electrical or mechanical components
- An easy-to-use, ergonomic thermal imaging module that transforms your smartphone into an efficient infrared inspection instrument

EMC
EN: 61326-1
EN: 61010-1

Specifications

	T-31	T-31Pro
Thermal Sensor	160x120	256x192
Device support	Android and iOS	
Field of View	42°x32°/0.5m	56°x42°/0.5m
Frame Rate	25Hz	25Hz
Object Temperature Range	-20°C~550°C	-20°C~550°C
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	
Display	1.3" 240x240 LCD	
Detection Range	543m	543m
Recognition Range	136m	136m
Identification Range	78m	78m
Photo & Video	*	*
Spot/Line/Area Temperature	*	*
High/Low Temperature	*	*
9 Color Palettes	*	*

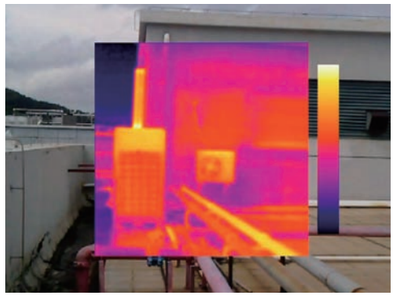
Size(HxWxD): 65 x 26x 16mm **Weight:** 80g
Accessories: Gift box.



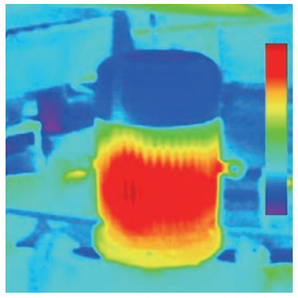
Support photography/video recording
By using a mobile app, you can capture images and record videos.



Uses Bluetooth to set up the peer-to-peer Wi-Fi network that the camera creates to connect to the mobile device



Picture-in-Picture



Multiple image modes are available for selection

Smart Thermview APP Function

- Thermal image snap and record
- Show temperature data at real time.
- Point/Line/Area real-time analysis
- History thermal image analysis
- Export PDF report
- Share thermal image to social platform
- Real-time preview the measurements of 9 color palettes

EMC
EN: 61326-1
EN: 61010-1



Model T-09F



Model T-15F



One device Supports Apple Lightning/ Type-C and Adroid Type-C at the same time

Specifications

	T-09F	T-15F	T-25F
Thermal Sensor	120x90	160x120	256x192
Device support	Apple lightning&Apple Type-C&android Type-C		
Field of View	50°x38°/0.5m	42°x32°/0.5m	56°x42°
Frame Rate	25Hz	25Hz	25Hz
Object Temperature Range	-20°C~550°C	-20°C~550°C	-10°C~550°C
Detection Range	543m	543m	543m
Recognition Range	136m	136m	136m
Identification Range	78m	78m	78m
Photo & Video	*	*	*
Spot/Line/Area Temperature	*	*	*
High/Low Temperature	*	*	*
9 Color Palettes	*	*	*

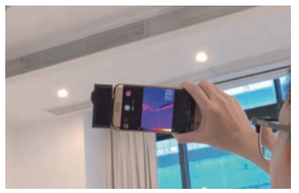
Size(HxWxD): 65 x 26x 16mm **Weight:** 80g
Accessories: Gift box.



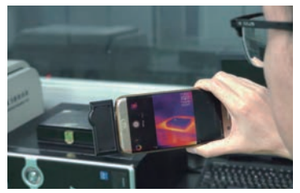
Electrical inspection



HVAC/R



Air conditioning inspection



Machine monitoring

Thermsight

Get it on Google play

Available on the App Store



AI-2021E/2021F/2021G/2021H

Automatic infrared thermal imaging temperature measurement warning system





Model 2021E

Fireworks detection, smoking detection, human shape detection, temperature detection, and other intelligent algorithms for linkage alar





Specifications					
Model		2021E	2021F	2021G	2021H
Infrared	Resolution	256x192	384x288	256x192	256x192
	Accuracy (Blackbody source correction)	±0.3°C	±0.3°C	±0.3°C	±0.3°C
	Angle of view	41x31°	41x31°	56x43°	56x43°
	Aperture/ Frame rate	F1.0/ 50Hz	F1.0/ 50Hz	F1.0/ 25Hz	F1.0/ 25Hz
	Material of Lens	germanium			
Visible light	Sensor type	2.0MP 1/2.7' Progressive Scan CMOS			
	Resolution	2560*1440			
	Day Night Conversion Mode	ICR infrared filter			
	Wide Dynamic Range	120dB			
	Infrared irradiation distance	Up to 20 meters away			
Temperature measurement	Temperature measurement range	-20-550°C			
	Temperature measurement accuracy	±2°C (±3.6°F) or ±2% of reading			
Intelligent functions	Human form detection	Support visible light channel personnel detection			
	Smoke and fire detection	Support dynamic fire point and smoke detection			
	Smoking detection	Support smoking detection			
	Linkage alarm	Supporting linkage sound alarm			
Black body	Blackbody target surface uniformity	≤0.1°C			
	Temperature stability accuracy	≤ ± 0.2°C (single point)			
Compression standard	Video compression standards	H265/H264			
	H265 encoding type	Main Profile			
	H264 encoding type	BaseLine Profile/Main Profile/High Profile			
	Video compression bit rate	32Kbps~8Mbps			
	Audio compression standard	PCM/G711			
Network functions	Main code stream	Visible light: 50Hz 25fps(2560*1440), 25fps(1920*1080), 25fps(1280*720)			
	Subcode stream	Thermal Imaging: 25fps(320*240), 25fps(256*192)			
	Network Protocol	IPv4,HTTP,FTP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,DHCP			
	Interface protocol	ONVIF protocol			
	Preview number of paths	8-way			
	user management	Support for super users and regular users			
Pan tilt parameters	Support for pan tilt control, Vertical 90 °, horizontal 355 °, Support power outage memory function, Supports preset point settings, up to 254				
Camera head interface	Alarm input, Alarm output, Audio input, Audio output, Ethernet port, SD card storage, Reset key				
Input voltage	DC 12V, Max 8W				

Accessories: 12V DC adaptor, 10m network cable, USB cable, 2m floor stand (optional), computer/ TV (optional).

AI-2031E/2031F

Automatic Infrared Thermal Imaging Temperature Measurement Warning System

Key features

- Industrial grade thermal imaging temperature measurement module with 256x192 resolution for thermal imaging
- Temperature measurement range: -20~+550 ℃, temperature measurement accuracy: ± 5 ℃ or ± 5% of reading
- Pixel size 12 μ m. Thermal sensitivity<60mk (@ 25 ℃, F #=1.0)
- 2 million high-definition image sensors for better visibility into details
- Supporting the proportional fusion of visible light and thermal imaging images, presenting exciting scenes 24 hours a day
- Support multiple intelligent algorithms: fireworks detection, smoking detection, human shape detection, temperature detection, and other intelligent algorithms for linkage alarm
- Support multiple pseudo color modes: white hot, black hot, pseudo color, etc
- Support multiple temperature measurement area settings. If the set temperature threshold is exceeded, an alarm signal will be automatically pushed and associated with an alarm prompt tone
- Support for standard ONVIF protocol, excellent compatibility, and convenient access to backend platforms
- Provide standard HTTP protocol documents to interface with backend platforms for linkage alarms

Specifications			
Model		2031E	2031F
Infrared	Resolution	256x192	384x288
	Accuracy (Blackbody source correction)	±0.3°C	±0.3°C
	Angle of view	41x31°	41x31°
	Aperture/ Frame rate	F1.0/ 50Hz	F1.0/ 50Hz
	Material of Lens	germanium	
Visible light	Sensor type	2.0MP 1/2.7' Progressive Scan CMOS	
	Resolution	2560*1440	
	Day Night Conversion Mode	ICR infrared filter	
	Wide Dynamic Range	120dB	
	Infrared irradiation distance	Up to 20 meters away	
Temperature measurement	Temperature measurement range	-20-550°C	
	Temperature measurement accuracy	±2°C (±3.6°F) or ±2% of reading	
Intelligent functions	Human form detection	Support visible light channel personnel detection	
	Smoke and fire detection	Support dynamic fire point and smoke detection	
	Smoking detection	Support smoking detection	
	Linkage alarm	Supporting linkage sound alarm	
Black body	Blackbody target surface uniformity	≤0.1°C	
	Temperature stability accuracy	≤ ± 0.2°C (single point)	
Compression standard	Video compression standards	H265/H264	
	H265 encoding type	Main Profile	
	H264 encoding type	BaseLine Profile/Main Profile/High Profile	
	Video compression bit rate	32Kbps~8Mbps	
	Audio compression standard	PCM/G711	
Network functions	Main code stream	Visible light: 50Hz 25fps(2560*1440), 25fps(1920*1080), 25fps(1280*720)	
	Subcode stream	Thermal Imaging: 25fps(320*240), 25fps(256*192)	
	Network Protocol	IPv4,HTTP,FTP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,DHCP	
	Interface protocol	ONVIF protocol	
	Preview number of paths	8-way	
	user management	Support for super users and regular users	
Pan tilt parameters	Support for pan tilt control, Vertical 90 °, horizontal 355 °, Support power outage memory function, Supports preset point settings, up to 254		
Camera head interface	Alarm input, Alarm output, Audio input, Audio output, Ethernet port, SD card storage, Reset key		
Input voltage	DC 12V, Max 8W		

Accessories: Computer, 3x10m network cable, network switch, BX-25 blackbody calibration source, 2m floor stand, 43 inch TV.



Model BX-25

Model 2031E

Application scenarios

Fireworks detection, smoking detection, human shape detection, temperature detection, and other intelligent algorithms for linkage alar



EMC
EN: 61326-1
EN: 61010-1



Model AI-200/201/202



Model UIR80, UIR160, UIR384, UIR640

Specifications

	UIR80	UIR160	UIR384	UIR640	AI-200	AI-201	AI-202
Imaging and optical data							
IR Resolution	160x120	160x120	384x288	640x480	160x120	160x120	384x288
Focal Plane A rray	Uncooled microbolometer/8~14um						
Field of Vi ew	17x17	29.8x22.6	24.6x18.6	24.6x19.8	21x21	29.8x22.6	41x31
Focal length	9mm	7.5mm	22mm	22mm	7.5mm	7.5mm	9mm
Spatial resolution	3.78mrad	3.33mrad	1.15mrad	0.77mrad	4.53mrad	3.33mrad	1.89mrad
NETD (@25°C,F#1.0)	<0.1°C 100mK	<0.8°C 80mK	<0.5°C 50mK	<0.5°C 50mK	<0.1°C 100mK	<0.8°C 80mK	<0.5°C 50mK
Image Frequency/ Focus	50Hz/ Manual						
Measurement							
Object temperature range	–20 to 150°C (–4 to 302°F) 0 to 650°C (32 to 1202°F)				32°C to 42°C(–89.6°F to +107.6°F) –20 to 150°C (–4 to 302°F) 0 to 650°C (32 to 1202°F)		
Face tracking					Intelligent face tracking,detect 10 faces at the same time		
Built-in visible digital camera					2M Pixels		
Accuracy	±2°C (±3.6°F) or ±2% of reading				±0.5°C (32~42°C, Screening mode) ±2°C, Normal temperature measurement range		
Image adjustment							
Color palettes	Grey/Grey Inverted/IRON/Rainbow						
Imageing Algorithm	Intelligent image enhancement						
Interfaces							
Video output/ Digital output	RJ45 Enthenet/ Standard PAL /USB UVC						
Communication interface	HTTP/RTSP						
Power/ Power consumption	5 VDC/ <1.8W @25°C						
Options Lens							
11mm		20.6°x15.5°	47.1°x36.2°				
22mm	8° x 8°	10.4°x7.8°					
33mm		6.9° x 5.2°					
38mm			14.4°x10.8°				
Size（HxWxD）	85x50x60mm				85x75x60mm		
Weight	178g				193g		

DT-971S/971H/DB-640 Professional Thermal Imaging Camera

EMC
EN: 61326-1
EN: 61010-1

Key Features:

- 100Mbps Ethernet, Composite video output, PAL & NTSC
- Standardized security interface design, using H.264 video compression protocol which is easy for system integration.
- 50Hz passive infrared imaging ensure the high frame rate security monitoCircular around the clock in all kinds of bad weather
- Image enhancement feature highlights the target details, easy to achieve target surveillance and recognition;
- Precise non-contact wide temperature ranges: 600°C to 2000 °C/ 1112 °F to 3632 °F; (DB-640)
- High-dynamic 2D-Si-CMOS array with 640× 512 pixels, Spectral range 0.8 µm to 1.1 µm (DB-640)



Model: 971S



Model: 971H

Specifications

	971S	971H	DB-640
Imaging and optical data			
Field of view (FOV) / Minimum focus distance	29.8°x 22.6°/ 0.2m	29.8°x 22.6°/ 0.2m	22° x 17.6°
Special range	8~14 µm	8~14 µm	0.8~1.1 µm
Spatial resolution (IFOV)	3.33mrad	3.33mrad	0.6mrad
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK	< 0.08°C @ +30°C (+86°F) / 80 mK	< 1°C @ +600°C
Image frequency	50Hz		30Hz
Focal length	7.5mm	7.5mm	25mm
IR resolution	160 × 120 pixels	160 × 120 pixels	640 × 512 pixels
Object temperature range	–20 to +150°C (–4 to +302°F) 0 to +400°C (32 to +752°F)	–20 to +150°C (–4 to +302°F) 0 to +400°C (32 to +752°F)	600°C to 2000°C 1112 °F to 3632 °F
Accuracy	±2°C (±3.6°F) or ±2% of reading		2% of reading
Interfaces	composite video		
Video out	composite(PAL and NTSC)		
Input voltage	DC 9V to 12V		DC 5V
Ethernet type, connector type，video streaming	100Mbps，RJ-45，H.264		
Alarm output	2 relay output		
Options Lens			
11mm		(FOV=20.6°x 15.5°)	8mm (FOV=68.8°x 55°)
22mm		(FOV=10.4°x 7.8°)	12mm (FOV=45.8°x 36.7°)
33mm		(FOV=6.9°x 5.2°)	50mm (FOV=11°x 8.8°)
38mm			75mm (FOV=7.3°x 5.9°)

Size(HxWxD): 195mm x115mm x83mm
Weight: 632g
Accessories: Infrared camera with lens, CVBS cable, Gift box.

CAM80/CAM160/CAM384/CAM640/CAM978/CAM979 have compact structure, small size and light weight which are a solid durable product with high sensitivity, clarity images, precise measurement and flexible operation features. It can meet the demand of non-contact temperature measurement, fast fault detection and thermal field analysis in the field of industrial, electrical, electronics and other industries.
CAM979 is combined with Visual and Thermal Imaging function, provides more flexible operation features.
The leading end will complete all the image processing and temperature measurement then the analog video can output to a monitor directly.





Model: 979



Model: 978

Specifications

	CAM80	CAM160	CAM384/978	CAM640	CAM979
Imaging and optical data					
Field of view (FOV) / Minimum focus distance	17x17°/0.5m	29.8x22.6°/0.2m	24.6°x 18.6°/ 0.5m	24.6°x 19.8°/ 0.3m	29.8°x 22.6°/ 0.2m
Spatial resolution (IFOV)	3.78mrad	3.33mrad	1.14 mrad	0.45	3.33mrad
Thermal sensitivity/NETD	< 0.1°C /100mK	< 0.08°C /80mK	< 0.05°C /50mK	< 0.05°C /50mK	< 0.08°C @ +30°C (+86°F) / 80 mK
Image frequency	50HZ				
Focus mode	Manual				
Focal length	9mm	7.5mm	22mm	38mm	7.5mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 µm				
IR resolution	160x120	160x120	384x288	640x480	160x120
Image presentation					
Image modes	IR image only				IR image, visual image
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Sepia, Blue_Red, Hot_Cold, Humidity				
Measurement					
Object temperature range	–20°C to +150°C (–4°F to +302°F) 0°C to +350°C (+32°F to +662°F)	–20°C to +150°C (–4°F to +302°F) 0°C to +400°C (+32°F to +752°F)			
Accuracy	±2°C (±3.6°F) or ±2% of reading				
Data communication interfaces					
Interfaces	USB, composite video				composite video
USB	Remote control				
Video out	Composite(PAL and NTSC)				
Ethernet type, connector type，video streaming					100Mbps，RJ-45，H.264
Alarm output	2 relay output				
Power system					
Input voltage	DC 9V to 12V				
Options Lens					
11mm		20.6° x 15.5°	47.1°x 36.2°		20.6° x 15.5°
22mm		10.4° x 7.8°			10.4° x 7.8°
33mm		6.9° x 5.2°			6.9° x 5.2°
38mm			14.4°x 10.8°		

Size(HxWxD): 90mmx74mmx74mm
130mmx60mmx74mm(978 only)
Weight: 1000g

Accessories: Infrared camera with lens, CVBS cable, RS485 cable, Network cable, Gift box.

Applications

- Buildings, factories security monitor circular;
- Border, ports, airports, railway stations and other big visitors flow rate places monitor circular;
- Warehouse fire monitor circular;
- Forest fire monitor circular.





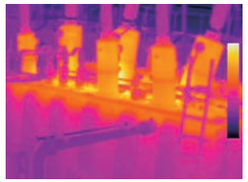
RL-7.5
7.5mm Lens

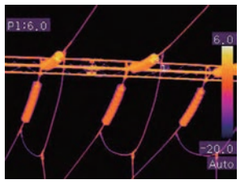


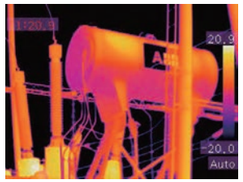
RL-33
33mm Lens



RL-22
22mm Lens







Thermal Camera for Maintenance

DR-09MAX is the first 1280×1024 high-performance, high-pixel thermal camera especially for scientific research. Equipped with a self-developed new-generation VOx infrared detector with a thermal sensitivity as low as 25mK, this device uses intelligent image algorithms and precise temperature measurement algorithms to provide clearer infrared images and higher measurement accuracy. Android operating system, intelligent applications & miscellaneous functions, and a 5.5-inch angle-adjustable display and rotatable handle bring a better experience meeting the ergonomics requirements.

Clear Thermal Images, Precise Temperature Measurement

- 1280×1024 ultra-high infrared resolution, providing up to 2560×2048 high-definition super-resolution infrared thermal images.
- With a high thermal sensitivity, capable of distinguishing the temperature difference of 0.025°C, with high measurement accuracy and more delicate thermal images.

Various Lenses and Fast Focusing

- Full coverage of lens focal lengths: 45°, 25°, 12° and 50μm, 25μm macro lenses to match more business applications.
- Support multiple focusing methods such as manual focus, auto focus, laser focus, auto focus, and continuous auto-focusing.

AI Empowerment for Efficient Work

- Android system, more in line with users' habits and more convenient to operate.
- Support up to 35 analysis area settings to analyze more temperature details.
- 30Hz frame rate supports lossless compression of 16bit, meeting the needs of users for high frame rate and full-function secondary video analysis.
- Support Wi-Fi wireless screen mirroring and radiation video streaming and FTP/HTTP coverage of PCs and mobile devices.



CE
EMC
EN: 61326-1
EN: 61010-1





Thermoview Pro for PC and mobile operating systems
Contains software for in-depth image analysis and report generation.

Specifications

Thermal Imaging	
Detector Type	12μm uncooled infrared detector
Infrared Resolution	1280×1024
Super Resolution	2560×2048
Spectral Band	7.5-14μm
Thermal Sensitivity (NETD)	<25mK (25°C,F1.0)
Frame Rate	30Hz
Focal Length	Standard lens: 34.9mm; wide-angle lens: 19.8mm; telephoto lens: 72.9mm; macro lens (0.2×): 17.8mm; super macro lens (0.4×): 15.2mm
FOV	Standard lens: 25°×20°; telephoto lens: 12°×9.6°; wide-angle lens: 45°×36°
Spatial Resolution (IFOV)	Standard lens: 0.34mrad; telephoto lens: 0.17mrad; wide-angle lens: 0.6mrad; macro lens: One pixel corresponds to 50μm; super macro lens: One pixel corresponds to 25μm.
Focus Mode	Manual focus, electric micro focus, one-button center focus, automatic center focus,single-touch automatic focus, laser-assisted focus
Minimum Imaging Distance	Standard lens: 0.5m; telephoto lens: 2.3m; wide-angle lens: 0.2m; macro lens: 46mm; super macro lens: 13mm;
Measurement Range	Standard: -20°C~+150°C (low temperature range), 150°C~800°C (medium temperature range). Optional: 400°C~1500°C, other ranges (high temperature range)
Measurement Accuracy	At 25°C normal temperature, the temperature measurement range is between 5°C~150°C, and the accuracy is ±1°C or ±1% of the reading (whichever is greater). At 25°C normal temperature, the temperature measurement range is below 1500°C, and the accuracy is ±2°C or ±2% of the reading.
Image Display	
Display	5.5-inch LCD touch screen, resolution 1920×1080
Visible Light Camera	13 megapixels
Digital Zoom	1–15 times, continuously adjustable roller
Palettes	19 options
Image Mode	Infrared, visible light, PIP, dual-spectrum fusion
Temperature Width Stretch	Support
Measurement and Analysis	
Support function	Laser Rangefinding, Area Measurement, Positioning, Temperature Difference Analysis, Image Freezing
Analysis Functions on the Device	Support up to 35 movable points, lines, frames, and polygonal areas (maximum and minimum temperature capture, average temperature measurement, environment variables, area alarm switch), and up to 5 preset modes
Trend Analysis	Supports temperature trend recording and analysis.
Analysis Report	PDF format. Support editing and template importing on the PC client.
Supporting Software	PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)
Image Storage	
Storage Medium	Standard 64GB MicroSD. Support SD, SDHC, and SDXC, up to 2TB.
Support function	Text Notes, Voice Notes
Video Functions	
Radiate Infrared Video Recording	Support compressed full radiation video recording (.irv), up to 15Hz video recording
Non-radiate Infrared or Visible Light Video Recording	Standard MP4 video recording
Radiate Infrared Video Stream Transmission	Analysis at about 25Hz on PC
Non-radiate Infrared Video Stream Transmission	RTSP H.264
Video Resolution	1920x1080
System Functions	
Intelligent Routine Inspection	Supported. General task package import and editing, standard and automatic naming of images
Dual-Spectrum Video Recording	Simultaneous infrared video and visible light video recording, in MP7 format
Communication Protocol	Wi-Fi, Bluetooth, USB
Voice Control	Voice assistant, quick command recognition
Support function	Intelligent Panoramic Stitching, Intelligent Image Stabilization, Routine Inspection Record Self-inspection, Flashlight
Others	
Battery	9000mAh lithium-ion battery, field-replaceable, fast charging
Charging Mode	USB Type-C or desktop charger
External Interface	USB3.0 Type-C, SD card, SIM card, Mini HDMI

Size(HxWxD): 140mm x 210mm x 115mm Weight: 1.7kg
Accessories: Thermal camera×1, quick operation guide, data download card, certificate of qualification, multi-country adapter, USB data cable×1, lithium-ion battery×3, portable bag, charging cradle×1, HDMI cable×1, hand strap, backpack strap, SD card, charging stand, standard lens.

Industrial Acoustic Imager



DT-1990H
Industrial Acoustic Imager

The 1990H is an Acoustic Imager that detects and locates an acoustic signature. These signatures can indicate leaks in compressed air, compressed gas, and vacuum systems. In addition, the 1990H detects electrical discharges as well as leaks. Examples of these electrical discharges include partial discharge such as corona, surface tracking, and arcing. The 1990H also identifies and locates potential mechanical issues. The Imager has an acoustic sensor-array that aligns a soundsource heatmap with the image. The visible-light camera provides a live-view image of the inspection area. Capture and save still image files and video files from the inspection for documentation and reports.

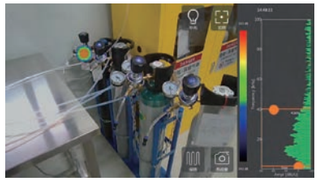
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EN: 61010-1



Model DT-1990H

Key features

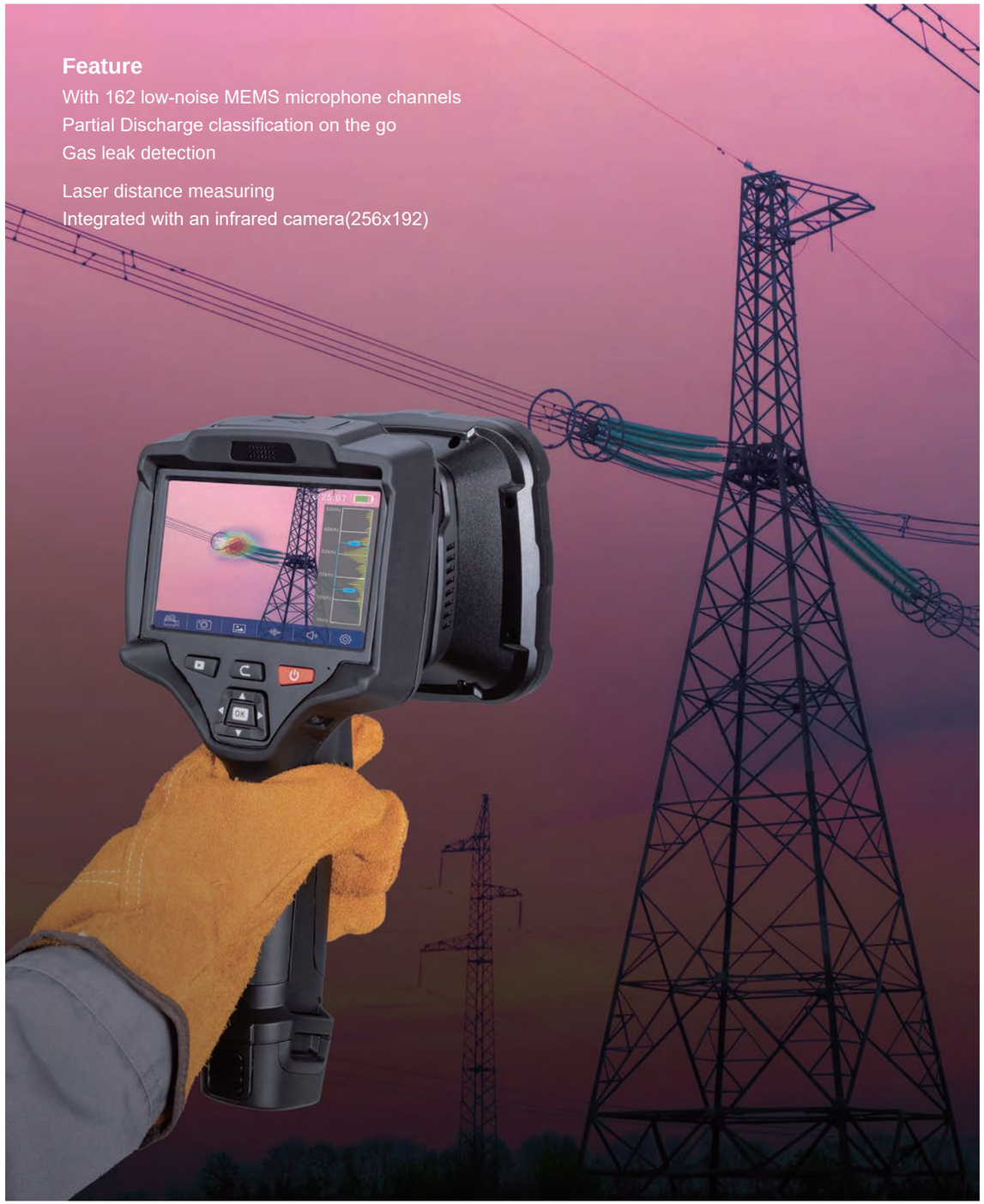
- Partial Discharge classification on the go
- Gas leak detection
- Expandable USB infrared camera
- Reduce outages and increase uptime
- Cut costs and save energy everyday by finding and fixing PD



Specifications	
Microphones channels	128
Microphones type	High sensitivity digital MEMS microphones
Sound pressure sensitivity	<30dB SPL~120dB
SNR(Signal to noise ratio)	64dB@1kHz
Bandwidth	2kHz~80kHz
Minimum bandwidth	<200Hz
Sound sampling rate	200kHz
Minimum leak rate	>150mL/min (700KPa, 14.5m)
	>90mL/min (300KPa, 7.5m)
	>35mL/min (170KPa, 0.5m)
Detection distance	0.3~100m
Acoustic imaging frame rate	25FPS
Screen	8 inch 1280x800
Touch	Capacitive
Digital camera resolution (pixels)	8MP
Aperture angle	65°(FoV horizontal)
Focus	Fixed lens 3.6mm
Internal storage	32GB (expandable)
Interfaces	USB3.0/LAN/3.5mm for headphones
Application	Discharge detection
	Gas leakage detection
	Abnormal vibration detection
Dimensions	300mm*158mm*61mm
Weight	1.2kg
Battery	7.4V/6600mAh Life:5h
Charger	DC12V/5A

Size(HxWxD): 300mm x 158mm x 61mm Weight: 1.2kg
Accessories: 6600 mAh High Capacity Li-Ion Battery, USB cable, Gift box.

Acoustic Imager



DT-1980
Acoustic Imager
CEM

Acoustic Imaging Camera is a handy & professional tool, designed for compressed air leak-age, partial discharge detection and other sound source localization. With 162 low-noise MEMS microphone arrays and an adjustable bandwidth from 2kHz to 100kHz. The detection range from 0.3m to 150m. Laser distance measuring and infrared camera(256x192) are Integrated.

Features
With 162 low-noise MEMS microphone channels
Adjustable bandwidth from 2kHz to 100kHz
5″ touch display screen
Sound sampling rate up to 200kHz
With a 13MP digital camera
Partial Discharge classification on the go
Gas leak detection
Laser distance measuring
Integrated with an infrared camera(256x192)

Specifications	
Microphones channels	162
Microphones type	High sensitivity digital MEMS microphones
Sound pressure sensitivity	Lower limit:<20dB Upper limit:>120dB
Microphones sensitivity	-26dBFS@1kHz
SNR(Signal to noise ratio)	64dB@1kHz
Bandwidth	2kHz~100kHz
Minimum bandwidth	<200Hz
Sound sampling rate	200kHz
Minimum leak rate	>0.15m/s (0.5MPa, 0.5m)
	>0.2m/s (0.5MPa, 1m)
Detection distance	0.3~150m
Resolution	<0.3m@1m,40KHz
ensitivity	<10dB@40KHz
Acoustic imaging frame rate	25FPS
Screen	5 inch 1280x720
Touch	Capacitive
Digital camera resolution(pixels)	13MP
FOV	60°(H) x 40°(V)
Focus	Fixed lens 3.4mm
Internal storage	16GB (expandable)
Interfaces	USB/3.5mm for headphones
Application	Discharge detection
	Gas leakage detection
	Abnormal vibration detection
Dimensions	163mm×286mm×140mm
Weight	1.35kg
Battery	7.4V/3500mAh

Size(HxWxD): 163mm x 286mm x 140mm Weight: 1.35kg
Accessories: 3500 mAh High Capacity Li-Ion Battery, USB cable, Gift box.



CE
EMC
EN: 61326

Model 1980

Microphone Channels

With 162 build-in low-noise MEMS microphones array for precise sound source localization



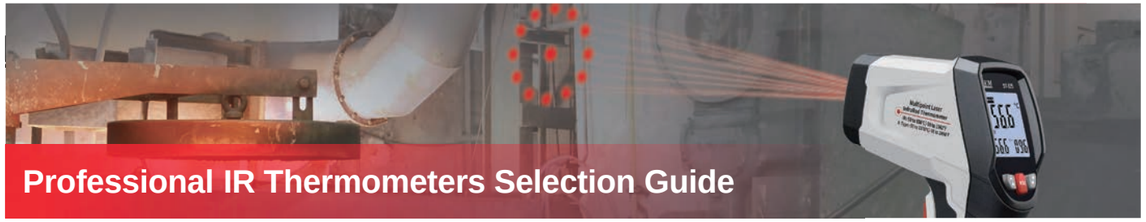
Non-Contact InfraRed Thermometers



CE

EMC
EN: 61326
EN: 60825-1

Infrared thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job. With unrivaled distance ratios, offers IR thermometers for every application.



Professional IR Thermometers Selection Guide



Professional 32*32 pixels IR Imager Thermometer P84

DT-9868S is a Professional infrared thermal imager with visible light and 32*32 pixels IR temperature measurement resolution. It combines the convenience of digital camera with thermal heat map at breakthrough affordability. The blended image eliminates guesswork and tells you the exact location of the issue.



Professional IR Video Thermometers with TFT color LCD display & Camera function P87

DT-9860S/9861S/9862S Professional Infrared Video Thermometers with 2.2" color TFT LCD display & a micro SD memory card for capturing Circular images(JPEG) or video(3GP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements. The measurement of dewpoint will be very visiable for wet and dry proof. These serials products are with international patent and good hand for industrial measurements and data analyzing.



Professional High Temperature InfraRed Thermometers P90

DT-8867H/8868H/8869H have widest temperature range up to 2200ºC and 75: 1 high distance to target ratio measures smaller surface areas at greater distances. They have 150ms faster sampling time with 1% accuracy, providing much faster, easier and accurate readings for most surface temperature measurements with dual laser pointers.



Professional InfraRed Thermometers with Dual Laser targeting P94

DT-8862 Series dual-laser IR temp gun accurately detects temperatures at long distances, and the 100-millisecond response time enables faster hot spot scanning.



Heavy Duty Professional InfraRed Thermometers with Circular Laser Targeting P99

DT-835/836 have IP54 rated for dust/water proof and 3 m (9.8 ft) drop tested, provide Hi and Lo temperature alarms for rapid display of measurements outside the limits, with Type K probe and Circular Laser Targeting, offer 150ms faster sampling time.

DT-9870H

Professional 120 x 90 InfraRed Imager Thermometer with Single infrared thermometer

120 x 90 — IR resolution 120x90 pixels

NETD 0.06°C — Thermal sensitivity 0.06°C (0.10°F)

IR Faster Sampling

Camera

9870H is a professional InfraRed 120 x 90 pixels imager thermometer with a single point infrared thermometer and 2.4″ color TFT LCD display, 120x90 pixels Imagers & a microSD memory card for capturing Circular images(JPG) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurement.

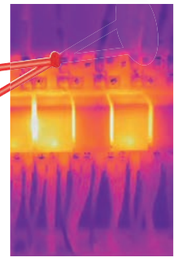
CE EMC
EN: 61326
EN: 60825-1

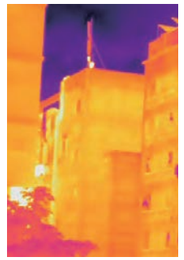
Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment



Model: 9870H







Features

	9870H
IR temperature measurement resolution	120x90
2.4" TFT 320x240 Pixels color LCD display	*
Single point infrared temperature	*
Dual laser targeting	*
2 million pixel video camera	*
Image capture frequency	30Hz
Thermal sensitivity (NETD)	≤60 mK
Hot Spot and Cold Spot Tracking	*
Visual camera & images capture(JPEG)	*
Micro SD memory card	*
Date/time setup controls, adjustable emissivity & trigger lock	*
Li-ION rechargeable battery	*
USB interface to smartphone / PC.	*
Language selection: English, Chinese,French, German, Italian	*

Specifications

Imaging and optical data	
IR resolution	120 x 90 pixels
Thermal sensitivity (NETD)	60 mK
Image frequency	30Hz
Object temperature range	-20°C to 400°C (-4°F to 752°F)
Basic accuracy	±2°C (±3.6°F) or ±2% of reading
Field of View	50° x 38°
Color palettes	GREY/GREY IRON/ IRON/RAINBOW
Detector data	
Detector type	VOX microbolometer
Spectral range	8-14μm
Single point infrared thermometer	
Temperature range	-50°C to 1200°C (-58°F to 2192°F)
D:S	50:1
Basic accuracy	±1°C (±1.8°F) or ±1% of reading
Response Time	Less than 150ms
Emissivity adjustable	0.10~1.0 Adjustable
Micro SD memory card	MAX. support 8GB
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures

Size(HxWxD): 155mm x 62mm x 205mm **Weight:** 414g
Accessories: 3.7V Li battery, USB cable, Carrying case and Gift box

DT-9868S/9868H

Professional 32 x32 InfraRed Imager Thermometer

32 x 32 — IR resolution 32x32 pixels

NETD 0.10°C — Thermal sensitivity 0.10°C (0.18°F)

Camera

IR Faster Sampling

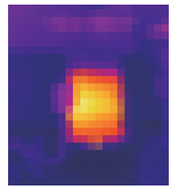
9868S is a professional InfraRed 32x32 pixels Imager Thermometer with 2.2″ color TFT LCD display, 32x32 pixels Imagers & a microSD memory card for capturing Circular images(BMP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements.

9868H is an InfraRed 32x32 pixels Imager Thermometer with 2.4″ color TFT LCD display, which is with Single point infrared temperature and 2 million pixel video camera.

CE EMC
EN: 61326-1
EN: 61010-1







25% visual 50 % blend 75 % blend

9868S combines the convenience of digital camera with thermal heat map at breakthrough affordability. The blended image eliminates guesswork and tells you the exact location of the issue.

Features

	9868S	9868H
IR temperature measurement resolution	32x32	32x32
2 million pixel video camera		*
640*480 pixel video camera	*	
Single point infrared temperature		*
2.2" TFT 320x240 Pixels color LCD display	*	
2.4" TFT 320x240 Pixels color LCD display		*
Image Capture Frequency 9Hz	*	*
Thermal Sensitivity (NETD)	100 mK	100 mK
Hot Spot and Cold Spot Tracking	*	*
Visual Camera & Images Capture(BMP)	*	*
MicroSD memory card	*	*
Date/time setup controls, Adjustable emissivity & trigger lock	*	*
Li-ion rechargeable battery	*	*
USB interface to smartphone / PC.	*	*
Language selection: English, Chinese,French, German, Italia	*	*

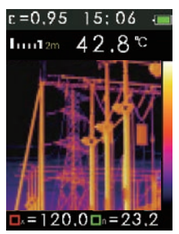
Specifications

Imaging and optical data	
Thermal sensitivity (NETD)	100 mK
Image frequency	9Hz
Detector data	
Detector type	Uncooled hyper-thin pyroelectric ceramic
Spectral range	8-14μm
IR resolution	32 x 32 pixels
Object temperature range	-20°C to 600°C (-4°F to 1112°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Spotmeter	Center spot
Emissivity adjustable	0.10~1.0 Adjustable
Single point infrared thermometer	
Temperature range	-50°C to 1000°C (-58°F to 1832°F) (9868H)
D:S	50:1(9868H)
Basic accuracy	±1°C (±1.8°F) or ±1% of reading (9868H)
Response Time	Less than 150ms (9868H)
Micro SD memory card	MAX. support 8GB
Field of View	39° x 39°
Color palettes	GRAY/GRAY IRON/ IRON/RAINBOW
Image storage format	Standard BMP, including measurement data, on memory card > 1000 pictures

Size(HxWxD): 155mm x 62mm x 205mm **Weight:** 404g
Accessories: 3.7V Li battery, USB cable, Carrying case and Gift box



Model: 9868H







DT-876H/877H

Heavy Duty Professional InfraRed Imager Thermometer with Single infraRed thermometer



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EMC
EN: 61326-1
EN: 61010-1

120 x 90

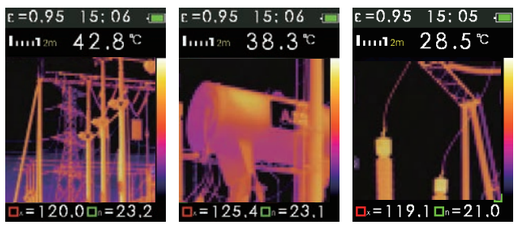
IR resolution
120x90 pixels

NETD 0.06°C

Thermal sensitivity
0.06°C (0.10°F)

Model 877H

877H is Professional InfraRed 120x90 pixels Imager Thermometers with 2.4” color TFT LCD display, providing fast, easy and accurate readings for most surface temperature measurements with cloud service.



Size(HxWxD): 210mm x 60mm x 123mm
Weight: 410g
Accessories: 3.7V Li battery, USB cable, Carrying case and Gift box

Features

	877H	876H
IR temperature measurement resolution	120x90	32x32
Single point infrare thermometer	*	*
Circular laser targeting	*	*
2.4" TFT 320x240 Pixels color LCD display	*	*
2 million pixel video camera	*	*
Image capture frequency	30Hz	9Hz
Thermal sensitivity (NETD)	≤60 mK	≤100 mK
Hot Spot and Cold Spot Tracking	*	*
Visual camera & images capture(JPEG)	*	*
Micro SD memory card	*	*
Date/time setup controls, adjustable emissivity & trigger lock	*	*
Li-ION rechargeable battery	*	*
Optical Resolution	50:1	30:1
USB interface	*	*
Language selection: English, Chinese,French, German, Italian	*	*

Specifications

Imaging and optical data		
Object temperature range (32x32)	-20°C to 600°C (-4°F to 1112°F) (876H)	
Object temperature range (120x90)	-20°C to 400°C (-4°F to 752°F) (877H)	
Basic accuracy	±2°C (±3.6°F) or ±2% of reading	
Field of View	50° x 38° (877H) / 39° x 39°(876H)	
Color palettes	GREY/GREY IRON/ IRON/RAINBOW	
Detector data		
Detector type	VOX microbolometer(877H)	
	Uncooled hyper-thin pyroelectric ceramic(876H)	
Single point infrared thermometer		
	877H	876H
Temperature range	-50ºC to 800°C -58ºF to 1472°F	-50°C to 600°C (-58°F to 1112°F)
D:S	50:1	30:1
Basic accuracy	±1°C (±1.8°F) or ±1% of reading	
Response Time	Less than 150ms	
Emissivity adjustable	0.10~1.0 Adjustable	
Micro SD memory card	MAX. support 8GB	
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	

DT-867/867B

Professional InfraRed 32 x 32 pixels Imager Thermometer

867/867B are the Professional InfraRed 32x32 pixels Imager Thermometers with 2.0” color TFT LCD display, 32x32 pixels Imagers for capturing images(BMP) to view on your PC, providing fast, easy and accurate readings for most surface temperature measurements.

2.0” TFT Color LCD display

32x32 Pixels IR images

Features

2.0" TFT 320x240 Pixels color LCD display
IR temperature measurement with resolution 32x32 pixels
Image Capture Frequency 7Hz
Thermal Sensitivity (NETD) ≤100 mK
Hot Spot and Cold Spot Tracking
Visual Camera & Images Capture(BMP)
Date/time setup controls, Adjustable emissivity & trigger lock
Li-ION rechargeable battery (867 only)
3x "AAA" batteries (867B only)
USB interface to PC.
Language selection: English, Chinese
IP54 waterproof level



CE

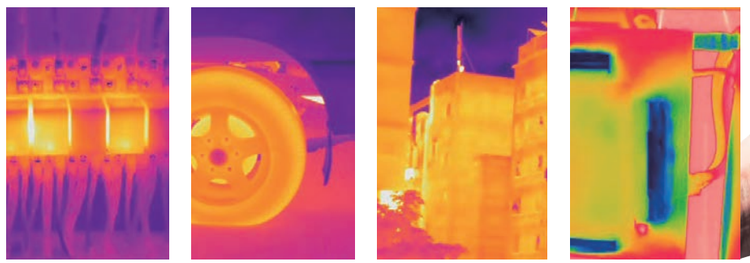
EMC
EN: 61326-1
EN: 61010-1

Model 867B

Specifications

Imaging and optical data	
Thermal sensitivity (NETD)	0.10°C (0.18°F) @ 1Hz and 100°C
Image frequency	7Hz
Detector data	
Detector type	Uncooled hyper-thin pyroelectric ceramic
Spectral range	8–14µm
IR resolution	32 × 32 pixels
Display	2.0" TFT 320x240 pixels color LCD display
IR temperature Measurement	
Object temperature range	–20°C to +600°C (–4°F to +1112°F)
Accuracy	±3°C (±5.4°F) or ±2% of reading
Spotmeter	Center spot
Emissivity adjustable	0.10~1.0 Adjustable
Field of View	39° x 39°
Color palettes	GREY/GREY IRON/ IRON/RAINBOW
Image storage format	Standard BMP, including measurement data, on drivce > 100 pictures

Size(HxWxD): 175mm x 58mm x 70mm **Weight:** 350g
Accessories: 3.7V Li battery (867), 3x "AAA" batteries (867B) ,USB cable, Carrying case and Gift box





Professional InfraRed Video Thermometers with TFT color LCD display & Imager Video format





Upload images and videos to a PC or laptop for further analysis or use for report documentation.



Dual laser targeting & D:S = 50:1



Fold reading on the images



High accuracy (1.0%) measurement

Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment

2.2" TFT color LCD display

Support ***Images***(JPEG) capture capabilities

Support ***Video***(3GP) capture capabilities

Support ***IR***, ***K-Type***, ***Air***, ***Dewpoint***, ***Wet bulb Temp.*** & ***Air Humidity*** measurement

Dual laser targeting

Date/Time setup controls

USB interface

Data Logger

Support ***MicroSD*** memory card extention

DT-9860S/9861S/9862S
Professional InfraRed Video Thermometers with TFT color LCD display & Camera function
CEM



2.2" TFT Color LCD display

Capture Circular images(JPEG)
50 : 1 distance to spot size

9860S/9861S/9862S Series Professional Infrared Video Thermometers with 2.2" color TFT LCD display & a microSD memory card for capturing Circular images(JPEG) or video(3GP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements. The measurement of dewpoint will be very visiable for wet and dry proof. These serials products are with international patent and good hand for industrial measurements and data analyzing. The user can be back in office to analyze the measured Infrared temperature readings under the support of software.

Features

- 2.2" Color TFT LCD and Built-in 640 x 480 Camera With a microSD card for capturing images (JPEG) and video (3GP) for viewing on your PC
- Dual laser indicates ideal measuring distance where the two laser points converge to a 1" target spot
- Fast 150 millisecond response time
- Color bargraph for viewing trends
- Type K Thermocouple input
- Air Temperature and Relative Humidity measurement
- Adjustable emissivity increases measurement accuracy for different surfaces
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- MAX/MIN/AVG/DIF functions
- Trigger lock function for continuous readings
- USB interface
- Auto power off
- Double molded housing



CE
EMC
EN: 61326-1
EN: 61010-1

Worldwide Patent:
PCT/CN2010/000230
200910189276.8
200920261924.1

Model 9860S

Specifications

	9860S	9861S	9862S
IR Temp. Range	-50ºC to 1000ºC -58ºF to 1832ºF	-50ºC to 1600ºC -58ºF to 2912ºF	-50ºC to 2200ºC -58ºF to 3992ºF
Response Time	Less than 150ms		
Resolution	0.1º up 1000º, 1º over 1000º		
Basic Accuracy (IR)	±1.0% of reading		
Optical Resolution	50:1 Distance to Spot size		
Emissivity Adjustable	0.10~1.0 Adjustable		
Type K Temp. Range	-50ºC to 1370ºC /-58ºF to 2498ºF		
Basic Accuracy (TK)	±0.5% of reading ±1ºC		
Micro SD memory card	MAX. support 8GB		
Air Temp Range	0 to 50ºC/32 to 122ºF		
Air Temp Basic Accuracy	±0.5ºC/1ºF		
Humidity Range	0 to 100%RH		
Humidity Basic Accuracy	±2.5%RH(20%~80%RH)		
Dew Point Temp. Range	0 to 50ºC/32 to 122ºF		
Wet Bulb Temp. Range	0 to 50ºC/32 to 122ºF		

Size(HxWxD): 155mm x 62mm x 205mm
Weight: 494g
Accessories: 3.7V Li battery,Type K Temp. probe, USB cable, Carrying case and Gift box





DT-8878/8879/8889/8889H

Professional 75:1 High Temperature InfraRed Thermometers



Adjustable Emissivity

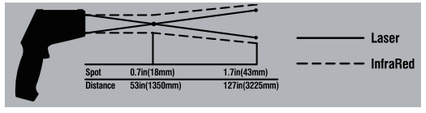
Data Record

Fast measuCircular with high accuracy

Model 8889/8889H

Features
Graphic white and black LCD display
Max, Min, DIF, AVG record & trigger lock
High / low alarm
Auto Power Off
Adjustable emissivity
Type K input
Memory data with Date/Time stamp (30 points)
USB interface
Datalog (Only 8879/8889H)
Wireless interface (Only 8879/8889H)

Distance (D) to Spot size(S)
D:S=75:1 (8889H)



(Unit: mm)



Thermistor clamp



TCP-100



Temperature probe
(Optional: NR-31B / TP-500 / TCP-100)

Specifications				
	8878	8879	8889	8889H
IR Temp. Range	-50ºC to 1200ºC/	-50ºC to 1600ºC/	-50ºC to 1850ºC/	-50ºC to 2200ºC/
	-58ºF to 2192ºF	-58ºF to 2912ºF	-58ºF to 3362ºF	-58ºF to 3992ºF
Response Time	Less than 150ms	Less than 150ms	Less than 150ms	Less than 150ms
Resolution	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º
Basic Accuracy (IR)	±1.0% of reading	±1.0% of reading	±1.0% of reading	±1.0% of reading
Optical Resolution	50:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size	75:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0
Type K Temp. Range	-50ºC to 1370ºC/	-50ºC to 1370ºC/	-50ºC to 1370ºC/	-50ºC to 1370ºC/
	-58ºF to 2498ºF	-58ºF to 2498ºF	-58ºF to 2498ºF	-58ºF to 2498ºF
Basic Accuracy (TK)	±0.5% of reading	±0.5% of reading	±0.5% of reading	±0.5% of reading
Readings memories	30	30	30	30
Datalog		*	*	*
Wireless interface(433Mhz)		*		
Bluetooth interface			*	*

Size(HxWxD): 204mm x 155mm x 52mm **Weight:** 320g

Accessories: 9V battery, USB Cable, Tripod, Software, Type-K temperature probe, Carrying case and Gift box

DT-8867H/8868/8868H/8869/8869H

Professional 50:1 High Temperature InfraRed Thermometers

CEM



8867H/8868/8868H/8869/8869H Series provide much faster, easier and accurate readings for most surface temperature measurements with Dual laser pointers.
Two laser points converge to a single spot when the unit is at the optimal distance from the object being measured.

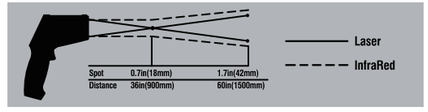
- 150ms faster sampling time with 1% accuracy
- High 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- Widest temperature range
- Unique flat surface, modern housing design
- Built-in dual laser pointers for accurate targeting
- Automatic Data Hold & Trigger Lock
- Max, Min, DIF, AVG record
- High and low temp. alarm
- Emissivity Digitally adjustable from 0.10 to 1.0
- USB interface
- Compatible with all standard connector Type K thermocouples

Features
User selectable ºC or ºF
Dual Laser targeting
Automatic Data Hold
Auto Power Off
White backlit LCD display
Overrange indication
High temperature
Max, Min, DIF, AVG record
High / low alarm, Trigger lock
Adjustable emissivity
Reading memory (8868/8869/8868H/8869H)
Type K input
USB interface



Model 8869

Distance (D) to Spot size(S)
D:S=50:1(8869)



(Unit: mm)

150ms faster sampling time
1% accuracy
Reading memory

50 : 1 distance to spot size
Dual laser pointers

CE

EMC
EN: 61326
EN: 60825-1

Specifications					
	8867H	8868	8869	8868H	8869H
IR Temp. Range	-50ºC to 1650ºC	-50ºC to 1200ºC	-50ºC to 1600ºC	-50ºC to 1850ºC	-50ºC to 2200ºC
	-58ºF to 3002ºF	-58ºF to 2192ºF	-58ºF to 2912ºF	-58ºF to 3362ºF	-58ºF to 3992ºF
Response Time	Less than 150ms	Less than 150ms	Less than 150ms	Less than 150ms	Less than 150ms
Resolution	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º	0.1º up 1000º, 1º over 1000º
Basic Accuracy (IR)	±1.0% of reading	±1.0% of reading	±1.0% of reading	±1.0% of reading	±1.0% of reading
Optical Resolution	30:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0
Type K Temp. Range	-50ºC to 1370ºC	-50ºC to 1370ºC	-50ºC to 1370ºC	-50ºC to 1370ºC	-50ºC to 1370ºC
	-58ºF to 2498ºF	-58ºF to 2498ºF	-58ºF to 2498ºF	-58ºF to 2498ºF	-58ºF to 2498ºF
Basic Accuracy (TK)	±1.5% of reading	±1.5% of reading	±1.5% of reading	±1.5% of reading	±1.5% of reading
Readings memories		99	99	99	99

Size(HxWxD): 204mm x 155mm x 52mm **Weight:** 320g

Accessories: 9V battery, USB Cable, Tripod, Software, Type-K temperature probe, Carrying case and Gift box



Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage

CE
EMC
EN: 61326
EN: 60825-1

DT-8857/8857H
Heavy Duty Professional InfraRed Thermometers with Circular laser Targeting
CEM

8857 Series Professional IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright circular laser. Even in the dark, the display is easy to read with the quality backlight.



- 150ms faster sampling time with 1% accuracy
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature

Features

	8857	8857H
User selectable ºC or ºF	*	*
Circular laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Trigger lock for continuous use	*	*
Max, MIN, DIF, AVG display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Type-K input	*	*
Bluetooth interface	*	*

Specifications

	8857	8857H
IR Temp. Range	-50ºC to 1000ºC	-50ºC to 1200ºC
	-58ºF to 1832ºF	-58ºF to 2192ºF
Response Time	Less than 150ms	
Resolution	0.1º up 1000º, 1º over 1000º	
Basic Accuracy (IR)	±1.0% of reading	
Optical Resolution	30:1 Distance to Spot size	40:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	
Type K Temp. Range	-50ºC to 1370ºC/-58ºF to 2498ºF	
Basic Accuracy (TK)	±1.5% of reading	
Reading memories	99	
Spectral Response	8-14µm	

Size(HxWxD): 170mm x 50mm x 95mm **Weight:** 248g
Accessories: 2x1.5V"AAA"batteries, Type K Probe, Carrying case and Gift box.





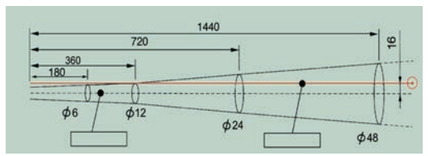
CE
EMC
EN: 61326
EN: 60825-1

Model 8857



Model 8857H

Distance (D) to Spot size(S)
D:S=30:1



(Unit: mm)

Professional InfraRed Thermometers with Dual Laser targeting

Fast response time 0.15 sec.

Built-in Dual Laser Pointers focus target (calibrated distance)
High accuracy(1.0%) measurement

Triple LCD display indicates Reading, Max reading and Emissivity at same time.
High contrast LCD with white backlight

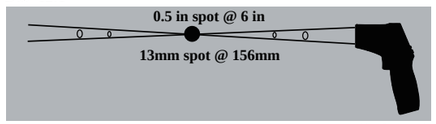
Double molded housing design



Model 8862B

EMC
EN: 61326
EN: 60825-1

Distance (D) to Spot size(S)
D:S=12:1



(Unit: mm)

Features	8862B	8863B
User selectable ºC or ºF	*	*
Dual laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Trigger lock for continuous use	*	*
Max display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Optical Resolution	12:1	20:1
Red backlight & beeper alarm	*	*

Specifications	8862B	8863B
IR Temp. Range	-50ºC to 650ºC -58ºF to 1202ºF	-50ºC to 800ºC -58ºF to 1472ºF
IR Temp. Resolution	0.1º up to 1000º, 1º over 1000º	
Emissivity	Adjustable 0.10~1.0	
Basic Accuracy	±1.0% of reading	
Response Time	Less than 150ms	
Spectral response	8-14µm	

Size(HxWxD): 146mm x 104mm x 43mm **Weight:** 163g
Accessories: 9V battery, Carrying case and Gift box.

Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage



Red backlight alerts



Triple LCD display with white backlit



Worldwide Patent:
PCT/CN2012/082197

- *150ms faster sampling time*
- *1% accuracy*
- *Dual laser pointers*

Model 8862



EMC
EN: 61326
EN: 60825-1



Key Benefits
- Green, Red & Blue backlight: Normal, Higher & Lower temperature indications



Model 8862C



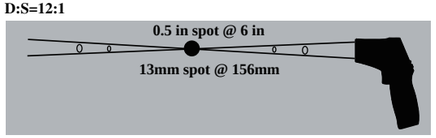
Model 8863/8865

Features	8860L	8860B	8861B	8861	8862	8862C	8862MAX+	8863	8865
User selectable ºC or ºF	*	*	*	*	*	*	*	*	*
Dual laser targeting	Single laser	Single laser	*	*	*	*	*	*	*
Automatic Data Hold	*	*	*	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*	*
White Backlit LCD Display	*	*	*	*	*	*	*	*	*
Overrange indication	*	*	*	*	*	*	*	*	*
Trigger lock for continuous use	*			*	*	*	*	*	*
Max display	*	*	*	*	*	*	*	*	*
High and low alarm	*			*	*	*	*	*	*
Adjustable emissivity			*	*	*	*	*	*	*
Optical Resolution	12:1	12:1	12:1	12:1	12:1	12:1	12:1	20:1	30:1
Green, Red & Blue backlight: Normal, Higher & Lower temperature indications							*		
Negativity display						*			

Specifications	8860L	8860B/8861B	8861	8862/8862C	8862MAX+	8863	8865
IR Temp. Range	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 450ºC -58ºF to 842ºF	-50ºC to 550ºC -58ºF to 1022ºF	-50ºC to 650ºC -58ºF to 1202ºF	-50ºC to 650ºC -58ºF to 1202ºF	-50ºC to 800ºC -58ºF to 1472ºF	-50ºC to 1000ºC -58ºF to 1832ºF
Emissivity	Fix 0.95		Adjustable 0.10~1.0				
IR Temp. Resolution	0.1º up to 1000º, 1º over 1000º						
Basic Accuracy	±2.0% of reading	±1.0% of reading					
Response Time	Less than 1s	Less than 150ms					
Spectral Response	8-14µm						

Size(HxWxD): 146mm x 104mm x 43mm **Weight:** 163g
Accessories: 9V battery, Carrying case and Gift box.

Distance (D) to Spot size(S)
D:S=12:1



(Unit: mm)

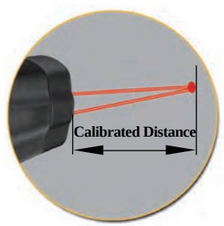


Triple LCD display with white backlit





High Quality Lens & Dual laser pointers



Accurate Measurement



DT-8875/8876/8876+
Heavy Duty Professional InfraRed Thermometers with Circular Laser Targeting
CEM



Circular laser pointers

150ms faster sampling time
1% accuracy

8875/8876/8876+ Professional Infrared Thermometers provide much faster and more accurate readings for Infrared Temperature.

- 150ms faster sampling time with 1% accuracy
- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature.

Features

	8875	8876	8876+
User selectable ºC or ºF	*	*	*
Dual laser targeting	*		
Circular laser targeting		*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
White backlit LCD display	*	*	*
Overrange indication	*	*	*
MAX, MIN, DIF, AVG display	*	*	*
K- Type input		*	*
Adjustable emissivity	*	*	*
Optical resolution	16:1	20:1	30:1
Red backlight & beeper alarm	*	*	*

Specifications

	8875	8876	8876+
IR Temp. Range	-50ºC to 850ºC -58ºF to 1562ºF	-50ºC to 1000ºC -58ºF to 1832ºF	-50ºC to 1300ºC -58ºF to 2372ºF
IR Temp. Resolution	0.1º up to 1000º, 1º over 1000º		
Emissivity	Adjustable 0.10~1.0		
Basic Accuracy	±1.0% of reading		
Response Time	Less than 150ms		
Spectral response	8-14μm		

Size(HxWxD): 190mm x 55mm x 110mm **Weight:** 263g
Accessories: 9V battery, Carrying case and Gift box.



Triple LCD display with white backlight



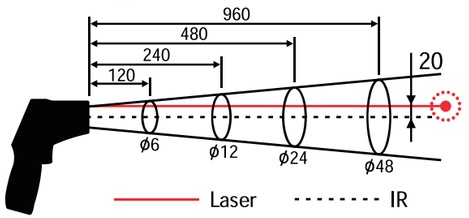
Red backlight alerts



Model 8876



Model 8875



Distance:Spot=20:1

Professional InfraRed Thermometers with Circular Laser targeting

- Fast response time 0.15 sec.
- Built-in Circular Laser Pointers focus target (calibrated distance)
- Triple LCD display indicates infrared temperature, dew-point temperature & humidity readings.
- Double molded housing design



Applications

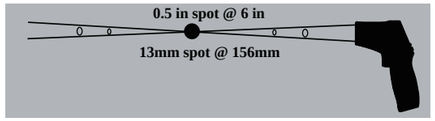
- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage

8870/8870B/8870V/8871/8872/8873 Series compact Infrared Thermometers provide much faster and more accurate readings for Infrared Temperature, Dew-point Temperature & Humidity.

- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomical designe: Perfectly design for more suitable handheld
- Distance to spot: Precise laser technology allows more accurate and repeatable measurements
- Alarm: Hi and Lo alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature, dew-point temperature & humidity.

CE
EMC
EN: 61326
EN: 60825-1

Distance (D) to Spot size(S)
D:S=12:1



(Unit: mm)

- *Circular laser pointers*
- *150ms faster sampling time*



Model 8870B

Features

	8870	8870B	8870V	8871	8872	8873
User selectable ºC or ºF	*	*	*	*	*	*
Circular laser targeting	*	Single laser	Dual laser	*	*	Dual laser
Automatic Data Hold	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
White Backlit LCD Display	*	*	*	*	*	*
Max/Min display			*			
Dew-point temperature alarm	*			*	*	*
Adjustable emissivity	*		*	*	*	*
Optical resolution	12:1	12:1	12:1	16:1	20:1	30:1
Dew-point temperature & humidity readings	*			*	*	*
Bluetooth interface		*				*
Memory data with Date/Time stamp		200 points				200 points



Model 8873

Specifications

	8870	8870B	8870V	8871	8872	8873
IR Temp. Range	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 380ºC -58ºF to 716ºF	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 800ºC -58ºF to 1472ºF	-50ºC to 800ºC -58ºF to 1472ºF	-50ºC to 1000ºC -58ºF to 1832ºF
IR Temp. Resolution	0.1º up to 1000º, 1º over 1000º					
Basic Accuracy	±2.0% of reading					
Spectral Response	8-14μm					
Response Time	＜150ms	＜400ms	＜500ms	＜150ms		
Humidity	0~100%RH			0~100%RH		
Air Temp.	-20~50ºC/ -4~122ºF			-20~50ºC/ -4~122ºF		
Dew Point Temp.	-20~50ºC/ -4~122ºF			-20~50ºC/ -4~122ºF		
Emissivity	Adjustable 0.10~1.0					
Humidity Accuracy	±3%RH(20%~80%RH)					

Size(HxWxD): 165mm x 45mm x 85mm **Weight:** 163g

Accessories: 9V battery, Carrying case and Gift box.



DT-835/835A/835C/836/836A/836C

Heavy Duty Professional InfraRed Thermometers with Circular laser Targeting

835 Series Professional IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright circular laser. Even in the dark, the display is easy to read with the quality backlit.

- 150ms faster sampling time with 1% accuracy
- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature



EMC
EN: 61326
EN: 60825-1

Model 835

Features

	835	835A/835C	836	836A/836C
User selectable ºC or ºF	*	*	*	*
Circular laser targeting	*	*	*	*
Automatic Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
White Backlit LCD Display	*	*	*	*
Overrange indication	*	*	*	*
Trigger lock for continuous use	*	*	*	*
Max, MIN, DIF, AVG display	*	*	*	*
High and low alarm	*	*	*	*
Adjustable emissivity	*	*	*	*
Type-K input	*	*	*	*
Negativity display		*/colorful		*/colorful
Optical resolution	16:1	16:1	20:1	20:1

Specifications

	835/835A/835C	836/836A/836C
IR Temp. Range	-50ºC to 800ºC	-50ºC to 1000ºC
	-58ºF to 1472ºF	-58ºF to 1832ºF
Response Time	Less than 150ms	
Resolution	0.1º up 1000º, 1º over 1000º	
Basic Accuracy (IR)	±1.0% of reading	
Optical Resolution	16:1 Distance to Spot size	20:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	
Type K Temp. Range	-50ºC to 1370ºC/-58ºF to 2498ºF	
Basic Accuracy (TK)	±1.5% of reading	
Spectral Response	8-14µm	

Size(HxWxD): 170mm x 50mm x 95mm **Weight:** 248g
Accessories: 2x1.5V"AAA"batteries, Type K Probe, Carrying case and Gift box.



Model 836A

Model 835C



DT-833/833A/833C

Heavy Duty Professional InfraRed Thermometers

833 Series Professional IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects are easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit.

- 150ms faster sampling time with 1% accuracy
- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for Infrared Temperature



EMC
EN: 61326
EN: 60825-1

Model 833



Model 833C

Features

	833	833A/833C
User selectable ºC or ºF	*	*
Dual laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Max, MIN, DIF, AVG display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Negativity display		*/colorful
Optical resolution	12:1	12:1

Specifications

IR Temp. Range	-50ºC to 650ºC/ -58ºF to 1202ºF
IR Temp. Resolution	0.1º up to 1000º, 1º over 1000º
Emissivity	Adjustable 0.10~1.0
Basic Accuracy	±1.0% of reading
Response Time	Less than 150ms
Spectral Response	8-14µm

Size(HxWxD): 170mm x 50mm x 85mm **Weight:** 238g
Accessories: 2x1.5V"AAA"batteries, Carrying case and Gift box.



DT-830L InfraRed Thermometers

830L IR Thermometer provides non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance.

Features

- Circular laser
- User selectable ºC or ºF
- Automatic Data Hold
- Auto Power Off
- White Backlit LCD Display
- Overrange indication, High and low alarm
- Max, MIN, DIF, AVG display
- Adjustable emissivity

Specifications

IR Temp. Range	-50ºC to 500ºC/-58ºF to 932ºF
IR Temp. Resolution	0.1ºC/ºF
Distance to Spot size	12:1
Emissivity	Adjustable 0.10~1.0
Basic Accuracy	±2.0% or ±2 of reading
Response Time	Less than 500ms
Spectral Response	8-14µm

Size(HxWxD): 170mm x 50mm x 85mm **Weight:** 238g
Accessories: 2x1.5V"AAA"batteries, Carrying case and Gift box.



EMC
EN: 61326
EN: 60825-1

Model 830L



DT-810/810L/810B/811/812
Mini InfraRed Thermometers

Worldwide Patent:
PCT/CN2012/082197

810/810B/811/812 Series mini IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit.

- Unique flat surface, mini modern housing design
- Temperature measurements from -50.0ºC to 500ºC/-58.0ºF to 932ºF (812)
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Max / Min record
- User selectable ºC or ºF
- Overrange indication
- Auto Data Hold when trigger released



EMC
EN: 61326
EN: 60825-1



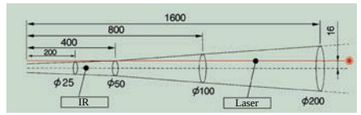


Model 811/812

Features	810/810L/810B/811/812
User selectable ºC or ºF	*
Laser targeting	*
Automatic Data Hold	*
Auto Power Off	*
White Backlit LCD Display	*
Overrange indication	*
Max / Min record	*

Specifications	810/810L	810B	811	812
Range	-30ºC to 260ºC -22ºF to 500ºF	-50ºC to 500ºC -58ºF to 932ºF	-30ºC to 380ºC -22ºF to 716ºF	-50ºC to 500ºC -58ºF to 932ºF
Basic Accuracy	±2% of reading or ±2ºC/±4ºF			
Resolution	0.1ºC/ºF			
Response Time	Less than 1 second			
Optical Resolution	8:1 Distance to Spot size			
Emissivity	Fixed at 0.95			

Distance (D) to Spot size(S)
D:S=8:1



(Unit: mm)

Size(HxWxD): 131mm x 96mm x 35mm **Weight:** 130g
Accessories: 9V battery, Carrying case and Clamshell.

DT-820/820B/820V/821/822 12:1/20:1 InfraRed Thermometers

820/820B/821/822 Series mini IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit.

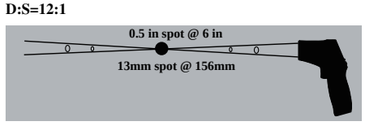


Model 822

Features	820B	820V	820/821	822
User selectable ºC or ºF	*	*	*	*
Targeted scanning for higher/lower temperature			*	*
Dual laser targeting	*	Single Laser	*	*
Automatic Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
Negativity display			*	*
Overrange indication	*	*	*	*
Max / Min record	*	*	*	*
Bluetooth				*

Specifications	820B	820V	820	821	822
Range	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 380ºC -58ºF to 716ºF	-50ºC to 650ºC -58ºF to1202ºF	-50ºC to 800ºC -58ºF to1472ºF
Distance to Spot size	10:1	12:1	12:1	12:1	20:1
Response Time	Less than 1s		Less than 150 ms		
Basic Accuracy	±2.0% of reading		±1.0% of reading		
Resolution	0.1ºC/ºF				
Emissivity	Fixed at 0.95				

Distance (D) to Spot size(S)
D:S=12:1



(Unit: mm)

Accessories: 9V battery, Carrying case and Clamshell.

Size(HxWxD): 131mm x 96mm x 35mm **Weight:** 130g

DT-827/827V/827L/827B
12:1 InfraRed Thermometers

827/827V mini IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. It allows you to read the measured data in dim environment with backli

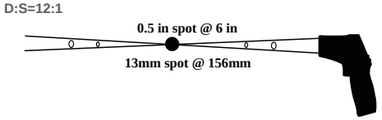


Model 827V

Features	827L	827	827V	827B
User selectable ºC or ºF	*	*	*	*
Dual laser targeting	Single Laser	Single Laser	*	Single Laser
Automatic Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
Negativity display			*	
Overrange indication	*	*	*	*
MAX/MIN/DIF/AVG display	*	*	*	*
High/Low temp. alarm/record	*	*	*	*
Backlight	*	*	*	*
Color LCD display			*	
Adjustable emissivity	*	*	*	*
Response Time	Less than 500ms			150ms

Specifications	827/827L	827V	827B
Temperature Range	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 760ºC -58ºF to 1400ºF	-50ºC to 550ºC -58ºF to 1022ºF
Distance to Spot size	12:1		
Accuracy	±2% or ±2ºC (3.6ºF)		
Resolution	0.1ºC/ºF		
Emissivity	Adjustable 0.10~1.0		

Distance (D) to Spot size(S)
D:S=12:1



(Unit: mm)

Size(HxWxD): 131mm x 96mm x 35mm **Weight:** 130g
Accessories: 9V battery, Carrying case and Clamshell.

DT-830/831/831H InfraRed Thermometers

830/831 IR Thermometer provides non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance.
831H IR Thermometer provides non-contact temperature measurements with body mode.



EMC
EN: 61326
EN: 60825-1



Model 830

Features	830	831	831H
User selectable ºC or ºF	*	*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
White Backlit LCD Display	*	*	*
Overrange indication, High and low alarm	*	*	*
Max, MIN, DIF, AVG display	*	*	*
Adjustable emissivity	*	*	*
Body mode			*
Memory stores up to 32 readings for easy recall			*

Specifications	830/831H	831
IR Temp. Range	-35ºC to 500ºC/-31ºF to 932ºF	-35ºC to 650ºC/-31ºF to 1202ºF
Range (Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF (831H)	
IR Temp. Resolution	0.1ºC/ºF	
Distance to Spot size	12:1	
Emissivity	Adjustable 0.10~1.0	
Basic Accuracy	±2.0% of reading	
Response Time	Less than 1s	
Spectral Response	8-14μm	

Size(HxWxD): 170mm x 50mm x 85mm **Weight:** 238g
Accessories: 2x1.5V"AAA"batteries, Carrying case and Gift box.

DT-8818V/8819V/8829V/8839V/8859V

50:1 High Temperature InfraRed Thermometers



Model 8818V



Model 8859V



50 : 1 distance to spot size (8839V/8859V)

High Temperature 1600ºC (2912ºF)

- High 50 to 1 distance to target ratio measures smaller surface areas at greater distances (8839V/8859V)
- Widest temperature range from -50.0 to 1600ºC /-58.0 to 2912ºF (8859V)
- Unique flat surface, modern housing design
- Built-in laser pointer
- Automatic Data Hold
- Max, Min, DIF, AVG record
- High and low temperature alarm
- Adjustable emissivity
- 8818V/8819V Optical Resolution is 16:1 Distance to Spot size

EMC
EN: 61326
EN: 60825-1

Features

	8818V	8819V	8829V	8839V	8859V
User selectable ºC or ºF	*	*	*	*	*
Laser targeting	*	*	*	*	*
Automatic Data Hold	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Backlit LCD Display	*	*	*	*	*
Overrange indication	*	*	*	*	*
High Temperature		*	*	*	*
Max, Min, DIF, AVG record	*	*	*	*	*
High and low alarm	*	*	*	*	*
Adjustable emissivity	*	*	*	*	*
Trigger lock	*	*	*	*	*

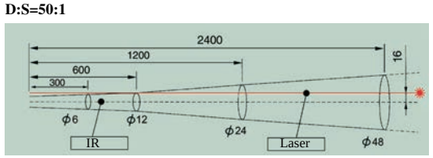
Specifications

	8818V	8819V	8829V	8839V	8859V
Range	-50ºC to 750ºC (-58ºF to 1382ºF)	-50ºC to 1000ºC (-58ºF to 1832ºF)	-50ºC to 1000ºC (-58ºF to 1832ºF)	-50ºC to 1000ºC (-58ºF to 1832ºF)	-50ºC to 1600ºC (-58ºF to 2912ºF)
	16:1 Distance to Spot size		30:1 Distance to Spot size	50:1 Distance to Spot size	
Emissivity	Adjustable 0.1~1.0				
Response Time	Less than 1 second				
Resolution	0.1º C/ºF				
Basic Accuracy	± 1.5% of reading or ± 2ºC/± 4ºF				

Size(HxWxD): 220mm x 120mm x 56mm **Weight:** 290g

Accessories: 9V battery, Carrying case and Gift box

Distance (D) to Spot size(S)
D:S=50:1



(Unit: mm)



DT-8856

High Temperature IR Thermometer with Wireless USB Interface

8856 Infrared Thermometer provides fast, easy and accurate readings for most surface temperature measurements with Wireless USB Interface (RF 433MHz)

Features

User selectable ºC or ºF	*
Built-in dual laser pointers focus target	*
Automatic Data Hold	*
Auto Power Off	*
White backlit LCD display	*
Fast response time 0.15 sec.	*
Trigger lock	*
Max, Min, DIF, AVG record	*
High and low alarm	*
Adjustable emissivity	*
Type K temperature measurement	*
High temperature	1050ºC/1922ºF
Wireless USB interface(RF 433MHz)	*
Optical resolution (Distance to Spot size)	30:1

Specifications

IR Temp. Range	-50ºC to 1050ºC/
	-58ºF to 1922ºF
IR Temp. Resolution	0.1º up to 2000º, 1º over 2000º
Optical Resolution	30:1 Distance to Spot size
Type K Temp. Range	-50ºC to 1370ºC/
	-58ºF to 2498ºF
Type K Temp. Resolution	0.1º up to 2000º, 1º over 2000º
Response Time	Less than 150ms
Basic Accuracy	±1.5% of reading
Emissivity	Adjustable 0.10~1.0

30 : 1 distance to spot size
IR thermometer with type K temperature measurement

Dual laser pointers
Wireless USB Interface(RF 433MHz)
20 Points Memory





Size(HxWxD): 180mm x 106mm x 48mm **Weight:** 250g

Accessories: 9V battery, Carrying case and Gift box, type K temperature probe, RF transmitter, power supply, tripod, CD Software.

DT-8830L/8830V/8833V/8835V Professional InfraRed Thermometers with Type K Input

8830V/8833V/8835V compact Infrared Thermometers provide fast, easy, and accurate readings for most surface temperature measurements with Type K Input and 20 Points Memory.

IR Thermometer with Type K Input and 20 Points Memory

30 : 1 distance to spot size

Worldwide Patent:
PCT/CN2012/082197



EMC
EN: 61326
EN: 60825-1

Model 8835V

Features

	8830L/8830V	8833V	8835V
User selectable ºC or ºF	*	*	*
Laser targeting	*	*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
White backlit LCD display	*	*	*
Overrange indication	*	*	*
Trigger lock	*	*	*
Max, Min, DIF, AVG record	*	*	*
High and low alarm	*	*	*
Adjustable emissivity	*	*	*
Type K temperature measurements	*	*	*
Max. temperature	500ºC/ 932ºF	800ºC/ 1472ºF	1050ºC/ 1922ºF
Optical resolution	13:1		30:1

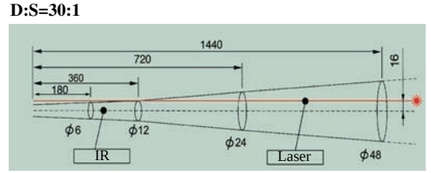
Specifications

	8830L/ 8830V	8833V	8835V
IR Temp. Range	-50 to 500ºC	-50 to 800ºC	-50 to 1050ºC
	-58 to 932ºF	-58 to 1472ºF	-58 to 1922ºF
Optical Resolution	13:1		30:1
IR Temp. Resolution	0.1ºC/ºF		
Type K Temp. Range	-50ºC to 1370ºC/-58ºF to 2498ºF		
Type K Temp. Resolution	0.1º up to 2000º, 1º over 2000º		
Response Time	Less than 1 second		
Basic Accuracy	±1.5% of reading		
Emissivity	Adjustable 0.10~1.0		

Size(HxWxD): 180mm x 106mm x 48mm **Weight:** 250g

Accessories: 9V battery, Carrying case, clamshell and type K temperature probe

Distance (D) to Spot size(S)
D:S=30:1



(Unit: mm)

DT-8866

Compact InfraRed Thermometer with Dual Laser Targeting

8866 compact Infrared Thermometer provides much faster, easy, and accurate readings for most surface temperature measurements.
Two laser points converge to a single spot when the unit is at the optimal distance from the object being measured.

Worldwide Patent:
PCT/CN2012/082197



EMC
EN: 61326
EN: 60825-1



Model 8866

Features

User selectable ºC or ºF
Dual laser targeting
Automatic Data Hold
Auto Power Off
White Backlit LCD Display
Overrange indication
Trigger lock
Max / Min display
High and low alarm
Adjustable emissivity
800ºC/1472ºF High Temperature
12:1 Optical Resolution (Distance to Spot size)

Specifications

IR Temp. Range	-35ºC to 800ºC
	-31ºF to 1472ºF
IR Temp. Resolution	0.1ºC/ºF
Optical Resolution	12:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0
Basic Accuracy	±1.0% of reading
Response Time	Less than 300ms
Spectral Response	8-14µm

Size(HxWxD): 160mm x 82mm x 42mm **Weight:** 177g
Accessories: 9V battery, Carrying case and Gift box

DT-880V/882V/883V Compact InfraRed Thermometers

880V/882V/883V Compact IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects are easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit scroll.



EMC
EN: 50081-1, 50082-1
EN: 60825-1

Model 880V





Features

	880V	882V	883V
User selectable ºC or ºF	*	*	*
Laser targeting	*	*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
White Backlit LCD Display	*	*	*
Overrange indication	*	*	*
Adjustable emissivity	*	*	*
Max / Min record	*	*	*
High Temperature		*	*
High and low alarm	*	*	*

Specifications

	880V	882V	883V
Range	-50ºC to 380ºC -58ºF to 716ºF	-50ºC to 500ºC -58ºF to 932ºF	-50ºC to 850ºC -58ºF to 1562ºF
Optical Resolution (D:S)	12:1 Distance to Spot size		
Response Time	Less than 1 second		
Resolution	0.1ºC/ºF		
Basic Accuracy	± 2% of reading or ± 2ºC/± 4ºF		

Size(HxWxD): 160mm x 82mm x 42mm **Weight:** 177g
Accessories: 9V battery, Carrying case and Gift box.

DT-8662/8663

Dew Point Temperature Detector with Dual Laser Targeting

8662/8663 series Infrared Dewpoint Temperature Detectors are very visiable for wet and dry proof. The green LED light will change to yellow and red when reading close to Dewpoint Temperature. It provides faster sampling time and high accuracy, widely applied in steel, oil & chemical, stove, environment testing, calibration lab, gas production industry etc.

Worldwide Patent:
PCT/CN2012/082197

Features

	8662	8663
User selectable ºC or ºF	*	*
Dual laser targeting	*	*
Automatic Data Hold	*	*
White Backlit LCD Display	*	*
Trigger lock for continuous use	*	*
Max display	*	*
Optical Resolution	12:1	20:1

Specifications

	8662	8663
IR Temp. Range	-50ºC to 260ºC / -58ºF to 500ºF	-50ºC to 380ºC / -58ºF to 716ºF
IR Temp. Resolution	0.1º	
Emissivity	0.95	
Temp. Basic Accuracy	±1.0% of reading	
Response Time	Less than 150ms	
Spectral response	8-14µm	
Humidity	0~100%RH	
Humidity Accuracy	±2.5%RH(20%~80%RH)	
Dew Point Temp.	-30~100ºC/ -22~199ºF; Basic Accuracy: ±2.0% of reading	
Wet Bulb Temp.	-30~100ºC/ -22~199ºF; Basic Accuracy: ±2.0% of reading	

Size(HxWxD): 82mm x 58mm x 168mm
Weight: 163g
Accessories: 9V battery, Carrying case and Gift box.



Green LED Yellow LED Red LED
Normal Close to Dewpoint Dewpoint

DT-8666/8666H Thermal Leak Detector with Audible Alarm

8666/8666H Thermal Leak Detector is visible for higher/lower temperature. It permits targeted scanning to find higher/lower temperature with continuous audible alarm.

Features

	8666	8666H
Optical Resolution	10:1	20:1
Threshold for light color transition(off, 1ºF, 5ºF, 10ºF)	*	
Auto-set base temperature for reference	*	
Single laser targeting	*	*
Fixed Emissivity at 0.95	*	*
ºC / ºF Switchable	*	*
Beeper alarm, Green, Red & Blue light alarm: Normal, Higher & Lower temperature indications	*	*

Specifications

		8666	8666H
Temperature Range	-35 to 800ºC/-31 to 1472ºF		*
Temperature Range	-50 to 380ºC/-58 to 716ºF	*	
Temperature accuracy	±1.0% of reading ±2 ºC/ºF	*	*
Response Wavelength range	8-14um	*	*
Resolution	0.1ºC/ºF	*	*
Emissivity	Adjustable 0.10~1.0	Fixed at 0.95	*
Response Time	< 500ms	*	*

Size(HxWxD): 183mm x 131mm x37mm
Weight: 220g
Accessories:
9V battery, Carrying case and Gift box.



Higher temperature Located with Red LED indicator



Normal Temperature with Green LED indicator



Lower temperature Located with blue LED indicator



Model 8666

- High accurate measurements to 1.0%
- Fast response time 0.5sec
- White Backlit LCD Display



Model 8666H

EMC
EN: 61326
EN: 60825-1

IR-485

Four-probe High-precision Infrared Thermometer



Model IR-485

This is a four-probe high-precision thermometer, the temperature data can be transmitted through the RS485 communication. Using standard MODBUS communication protocol, multiple devices can be connected under the same RS485 line.

- Standard MODBUS communication protocol
- Four high accury thermometer probes inside
- Continuously and accurately measure the temperature of the eggshell to improve the quality of the chicks

Specifications

IR temperature	Four probes
	Measuring range: 30.00-45.00ºC
	Accuracy: 36.00-39.00C ±0.2ºC 30.00-36.00C/ 39.00-45.00 ±0.3ºC
	Resolution: 0.01ºC
Communication (RS485)	RS485 communication
	An incubator can connect with 8-12 modules
	Two wire system (A,B), 12V output
	International standard-MODBUS protocol
	Baud rate 19200bps, 8-data bits+1- stop bit, No calibration
	Data transmission: 2s/Group
Operation environment	Operating temperature : 36-38.5ºC
	Operating humidity: 40%-70%

Size(HxWxD): 82mm x 58mm x 168mm **Weight:** 63g

Accessories: DC 12V, Carrying case and Gift box.

DT-8665 InfraRed Temperature Finder with Audible Alarm



Worldwide Patent:
PCT/CN2012/082197

8665 Infrared Temperature Finder is visiable for higher/lower temperature. It permits targeted scanning to find higher/lower temperature with continuous audible alarm. It provides faster sampling time and higher accuracy, widely applicant in industrial and environment field.



Model 8665

- Targeted scanning for higher/lower temperature
- The position of higher/lower temperature can be precisely found
- Enables you to work with certainty for Fault diagnosis
- The Audible will alarm when temperature is changed with switchable audible of higher/lower temperature
- LCD display with new target graphics
- Easy keypad operation



Normal Temperature with Green LED indicator



Higher temperature Located with Red LED indicator



Lower temperature Located with blue LED indicator

Features

T-Sound: Changeable beeper indication by Temperature
User selectable ºC or ºF
Dual laser targeting
Automatic Data Hold
Auto Power Off
White Backlit LCD Display
Overrange indication
Trigger lock for continuous use
Max/Min display
20:1 distance to target ratio measures smaller surface areas at greater distances
Green, Red & Blue blacklight: Normal, Higher & Lower temperature indications

Specifications

IR Temp. Range	-50ºC to 380ºC -58ºF to 716ºF
IR Temp. Resolution	0.1º
Emissivity	Fixed at 0.95
Temp. Basic Accuracy	±1.0% of reading
Response Time	Less than 150ms
Spectral Response	8-14µm

Size(HxWxD): 82mm x 58mm x 168mm **Weight:** 163g

Accessories: 9V battery, Carrying case and Gift box.



EMC
EN: 61326
EN: 60825-1

DT-868U/869U/869IR

IR Thermometer with UV Leak Detector

868U/869U 4-in-1 Thermometer features a non-contact IR Thermometer, UV Leak Detector, bright Flash-light, and a unique coaxial Distance-to-Spot laser.

869IR is the Professional Infrared 32x32 pixels Imager Thermometers with 2.0” color TFT LCD display, 32x32 pixels Imagers for capturing images(BMP) for viewing on your PC, providing fast, easy and accu-rate readings for most surface temperature measurements.

Features

	868U	869U	869IR
Non-contact IR Thermometer measures temperature up to 650°C (1202°F)	*		
Programmable High/Low Temperature set points with audible and visual alarm	*	*	
Adjustable emissivity for better accuracy on different surfaces	*	*	
MAX/MIN/AVG/DIF displays	*	*	
Bright flashlight with 5 white LEDs	*	*	
Automatic data hold when trigger is released	*	*	
UV Leak Detector with 5 UV/Blue LEDs(460-470nm)	*	*	*
Coaxial laser displays a circular set representation of the target area	*	*	*
2.0 inch 240 x 320 TFT LCD display			*
32 x 32 pixel infrared sensor			*
Image capture frequency 7Hz			*
Thermal sensitive(NETD) <347mK			*
Cold hot spot automatic capture			*
Visible camera and image storage(BMP)			*
Internal memory stores images and can store more than 100pcs			*
Set the time and date and adjust the emissivity			*
USB interface connect the computer to check the photo			*
Complete with two AA batteries	*	*	*

Specifications

		868U	869U	869IR
IR Temperature	-50ºC to 500ºC (-58 to 932ºF)		*	
	-50ºC to 650ºC (-58 to 1202ºF)	*		
Resolution	0.1ºC/ºF	*	*	
Accuracy	±1.5% rdg or ±3ºF/±1.5ºC whichever is greater	*	*	
Distance to Target ratio	16:1	*	12:1	
Emissivity	0.10 to 1.00 (Adjustable)	*	*	
Repeatabillty	±0.8% rdg or ±2ºF/±1ºC whichever is greater	*	*	
Imaging and optical data				
Thermal sensitivity (NETD)	0.10°C (0.18°F) @ 1Hz and 100°C			*
Detector data				
Detector type	Uncooled hyper-thin pyroelectric ceramic			*
Spectral range	8–14µm			*
IR temperature Measurement				
Object temperature range	–20°C to +600°C (–4°F to +1112°F)			*
Accuracy	±3°C (±5.4°F) or ±2% of reading			*
Spotmeter	Center spot			*
Emissivity adjustable	0.10~1.0 Adjustable			*
Field of View	39° x 39°			*
Color palettes	GREY/GREY IRON/ IRON/RAINBOW			*
Image storage format	Standard BMP, including measurement data, on drivce > 100 pictures			*

Size(HxWxD): 195mm x 99mm x 51mm **Weight:** 252g

Accessories: 2x1.5V“AA”batteries,Type K Temp. probe, USB cable, Carrying case and Gift box



2.0” TFT Color LCD display

32x32 Pixels IR images



EMC
EN: 61326-1
EN: 61010-1

Model 869IR



Model 868U

BXL-500P

Precision Infrared Calibrator



Model BXL-500P

CE
EMC
EN: 61326

Accuracy and traceability for infrared measurements

- Easy to increase your IR temperature measurement accuracy
- Calibrated radiometrically for meaningful, consistent results.
- Accurate, reliable performance from 35 °C to 500 °C
- Large target size of 152 mm (6 inch) is required for calibrating most thermometers.
- Intuitive, easy-to-read display that indicates when temperature is stable.
- Ethernet network interface

Specifications

Temperature Range	35ºC ~ 500ºC/ (95ºF ~ 932ºF)
Accuracy	±0.5ºC @ 100ºC/ (±1.0ºF @ 212ºF)
	±1.8ºC @ 500ºC/ (±3.6ºF @ 932ºF)
Stability	±0.1ºC @ 100ºC/ (±0.2ºF @ 212ºF)
	±0.3ºC @ 500ºC/ (±0.6ºF @ 932ºF)
Target size	6” (152.4mm)
Target Emissivity	0.95
Resolution	0.01ºC/ºF up to 300º; 0.1ºC/ºF over 300º;
Heating Time	30 minutes to max
Cooling Time	40 minutes max to 100ºC
Power	230 VAC (±10%), 1.5 A; or 110V AC, 3A

Size(HxWxD): 180mm x 114mm x 233mm **Weight:** 2682g







TFT Color display with capacitive touch screen

BX-150 Dry-Well Temperature Calibrator

The new heat source to check your thermometer’s accuracy up to 300°C/572°F. Simply set the heat source to the desired test point, insert the test probe into the best fitting well, and get a verification of the performance. It’s easy!

Specifications

Range	33°C to 300°C (91.4°F to 572°F)
Resolution	0.1°C/F
Accuracy	±0.5°C (33 to 199°C) & ± 1°C (200 to 300°C) ±0.9°F (91.4 to 390.2°F) & ± 1°F (392 to 572°F)
Stability	±0.5°C
Heating Time	ambient to 300°C (572°F) after 10 minutes
Cooling Time	300°C (572°F) to 100°C (212°F) after 10 minutes
Stabilization	5 minutes
Well Depth	4” (100mm)
Power	230/115 volts

CE
EMC
EN: 61326



Model BX-150

Size(HxWxD): 180mm x 114mm x 233mm **Accessories:** Box, AC power cable.
Weight: 2200g

BX-350/350Y/500/BXC-15

Portable IR Calibrators

BX-350/BX-500/BXC-15 portable IR calibrators are used for calibrating long distance Infrared Thermometer, which are designed as handhold and small calibrators.

Specifications

	BX-350/350Y	BX-500	BXC-15
Temperature Range	50ºC ~ 350ºC (122ºF ~ 662ºF)	50ºC ~ 500ºC (122ºF ~ 932ºF)	-15ºC ~ 120ºC (5ºF ~ 248ºF)
Accuracy	±0.5ºC @ 100ºC (±1.0ºF @ 212ºF)	±0.5ºC @ 100ºC (±1.0ºF @ 212ºF)	±0.40°C at -15 to 0°C ±0.50°C at 0 to 100°C ±0.55°C at 100 to 120°C
	±1.2ºC @ 350ºC (±2.4ºF @ 662ºF)	±1.8ºC @ 500ºC (±3.6ºF @ 932ºF)	
Stability	±0.1ºC @ 100ºC (±0.2ºF @ 212ºF)	±0.1ºC @ 100ºC (±0.2ºF @ 212ºF)	±0.1ºC @ 100ºC (±0.2ºF @ 212ºF)
	±0.2ºC @ 350ºC (±0.4ºF @ 662ºF)	±0.3ºC @ 500ºC (±0.6ºF @ 932ºF)	
Target size	2.25” (57mm)	2.25” (57mm)	3.26” (83x83mm)
Target Emissivity	0.95	0.95	0.95
Resolution	0.1ºC/ºF	0.1ºC/ºF	0.01ºC/ºF up to 300º; 0.1ºC/ºF over 300º;
Heating Time	30 minutes to max	40 minutes to max	15 min: 120°C to 23°C 15 min: 23°C to -15°C
Cooling Time	30 minutes max to 100ºC	45 minutes max to 100ºC	15 min: 120°C to 23°C 20 min: 23°C to -15°C
			TFT Color display with capacitive touch screen
			Ethernet network interface
Power	230 VAC (±10%), 1.5 A; or 110V AC, 3A		

The BXC-15 reaches temperatures from -15 °C to 120 °C



Model BXC-15

CE
EMC
EN: 61326



Model BX-350/500

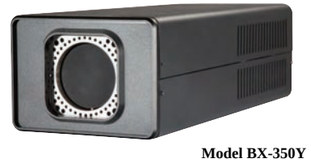


Whether you’re using in-line or handheld infrared pyrometers, you need a high performance calibration standard to verify accuracy. Portable IR Calibrator provides a stable blackbody target for calibrating non-contact IR thermometers up to 500ºC (BX-500).

The portable IR calibrator features a large temperature controlled blackbody target with a diameter of 2.25" (57 mm), which offers a wide field of view area for optical variations in IR thermometers. With an emissivity of 0.95, the isothermal target can be controlled in set-point increments of 0.1° from 50ºC to 500ºC (BX-500)

For even higher precision, a contact calibration well is located directly behind the blackbody surface. Using an optional digital RTD thermometer and calibrated secondary probe, accuracies of ±0.1ºC can be achieved.

Size(HxWxD): 180mm x 114mm x 233mm **Weight:** 2682g
Accessories: Carton box, AC power cable.



Model BX-350Y

BX-25/35 Temperature Calibrator

BX-25 temperature calibrator prvoides stable environment temperature compensation to calibrate the Infrared Thermal Imager on the spot.

BX-35 temperature calibrator supports temperature calibration for the Infrared Thermal Imager on the spot.

Specifications

	BX-25	BX-35
Temperature Range	15ºC ~ 35ºC (122ºF ~ 662ºF)	15ºC ~ 60ºC (122ºF ~ 932ºF)
Accuracy	±0.5ºC @ 100ºC (±1.0ºF @ 212ºF)	±0.5ºC @ 100ºC (±1.0ºF @ 212ºF)
	±1.2ºC @ 350ºC (±2.4ºF @ 662ºF)	
Stability	±0.1ºC @ 100ºC (±0.2ºF @ 212ºF)	±0.1ºC @ 100ºC (±0.2ºF @ 212ºF)
Target size	2.25” (57mm)	2.25” (57mm)
Target Emissivity	0.95	0.95
Resolution	0.1ºC/ºF	0.1ºC/ºF
Heating Time		10 minutes to max
Cooling Time		45 minutes max to 100ºC
Power	230 VAC (±10%), 1.5 A; or 110V AC, 3A	

CE
EMC
EN: 61326



Model BX-25





Model BX-35

Size(HxWxD): 91mm x125mm x 125mm (BX-25), 200mmx125mmx125mm(BX-35)
Weight: 1600g
Accessories: Box, AC power cable.

Food Safety Check

A varied selection of products for controlling food safety can help you meet with your HACCP requirements effortlessly - and enables you to be sure you are storing and processing food safely.
Our measuring technology includes data loggers, thermometers, cooking oil testers, pH measuring instruments and lots more.





Food Safety Meters Selection Guide



2 in 1 Food Safety Infrared Thermometer P113

The IR-95 Food Safety infrared and contact thermometer for surface scans with a probe thermometer and alarm monitoring for internal temperature readings.



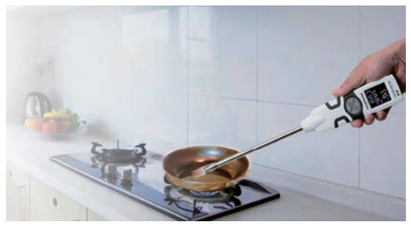
Professional BBQ Thermometers P115

The 162W/163W professional wireless BBQ thermometer measures the core temperature of grilled food, transmits it wirelessly to a portable display, signals its doneness and gives an acoustic and visual alarm when the cooking time is about to be exceeded.



Food Safety type-K Thermometer P118

The 270KT Food safety type-k thermometer in the food sector, cooling chain compliance has to be checked and verified. The ambient conditions may also have an influence on product quality. This makes continuous monitoring of temperature and relative humidity in the warehouse essential.



Deep-frying Oil Tester P119

The 70 is a handy measuring instrument for fast testing of cooking oils. It can display the temperature of the cooking oil and TPM value.The TPM value (total polar materials) enables a statement on the ageing of cooking oils due to the effects of heat.



Pen type Thermometers P120

The 133A contact thermometer offers fast response and laboratory accuracy. The thermometer offers 0.1ºC/0.1ºF resolution over the entire measurement ranges. A rugged holster protects the model.

IR-95
Food Safety Infrared Thermometer

IP65 waterproof

500ms faster sampling time



EMC
EN: 61326
EN: 60825-1

HACCP approved
Model IR-95







The IR-95 Food Safety infrared and contact thermometer for surface scans with a probe thermometer and alarm monitoring for internal temperature readings.

Features
Built-in fold-out probe for measuring internal food temperatures
Probe temperature range -40 to 230 ºC
High and low alarm
Backlit display for clear readings in poorly light areas
IP65 waterproof
Mini modern housing design
Flashlight

Specifications	
IR Temp. Range	-40ºC to 280ºC/-40ºF to 536ºF
Response Time	Less than 500ms
Distance to Spot size	4:1
Thermistor Temperature Range	-40ºC to 230ºC/-40ºF to 446ºF
Emissivity	Fixed at 0.97
Resolution	0.1ºC/ºF
Basic Accuracy	±1.0% of reading

Size(HxWxD): 50mm x67mm x 185mm **Weight:** 180g
Accessories: 2X1.5V "AAA" batteries, Clamshell.

IR-97 Food Safety Infrared Thermometer



EMC
EN: 61326
EN: 60825-1

Model IR-97





The IR-97 Food Safety infrared non-contact thermometer for surface scans with a probe thermometer for internal temperature readings. An integrated countdown timer with alarm monitors line checks as well as cooking and cooling intervals.

Features
Built-in fold-out probe for measuring internal food temperatures
Probe temperature range -40 to 200 ºC
Countdown timer to monitor cooking, cooling and HACCP exposure times
Backlit display for clear readings in poorly light areas
MAX temperature displayed for quick reference

Specifications	
IR Temp. Range	-40ºC to 280ºC/-40ºF to 536ºF
Response Time	Less than 500ms
Distance to Spot size	20:1
Emissivity	Fixed at 0.97
Thermistor Temperature Range	-40ºC to 200ºC/-40ºF to 392ºF
Resolution	0.1ºC/ºF
Basic Accuracy	±1.0% of reading

Size(HxWxD): 50mm x67mm x 185mm
Weight: 180g
Accessories:
9V battery, Clamshell.

IR-98H
Food Safety Infrared Thermometer

The IR-98H Food Safety infrared and contact thermometer is for surface scans using IR and with a probe thermometer for internal temperature readings. An integrated countdown timer with alarm monitors line checks as well as cooking and cooling intervals.

Features
Built-in fold-out probe for measuring internal food temperatures
Probe temperature range -40 to 200 ºC
Countdown timer to monitor cooking, cooling and HACCP exposure times
Backlit display for clear readings in poorly lit areas
MAX temperature displayed for quick reference

Specifications	
IR Temp. Range	-40ºC to 280ºC/-40ºF to 536ºF
Response Time	Less than 500ms
Distance to Spot size	20:1
Emissivity	Fixed at 0.97
Thermistor Temperature Range	-40ºC to 200ºC/-40ºF to 392ºF
Resolution	0.1ºC/ºF
Basic Accuracy	±1.0% of reading

Size(HxWxD): 26mm x40mm x 238mm
Weight: 180g
Accessories: 2x1.5V AAA batteries, Clamshell.

IP65 waterproof

500ms faster sampling time

EMC
EN: 61326
EN: 13485
EN: 60825-1

Model IR-98H

HACCP approved





DT-160/161 Waterproof Folding Thermometer

The 160/161 is a waterproof folding thermometer which offers handy, practical and strong support when carrying out temperature measurements. The thermometer features IP67 class protection and can be used under all conditions. It can also be easily cleaned under running water and has a rubber-coated surface for non-slip handling. The 161 has a large, illuminated display for easy and error-free viewing of measurement data under poor lighting conditions.

- Compact 5.9" size (15 cm)
- Ideally suited to core temperature measurements
- IP67 protection
- Non-slip rubber coated surface
- Large, illuminated readout display
- ABS/TPE/Metal housing

EMC
EN: 61326
EN: 13485
EN: 60825-1

Model 161
HACCP approved



Features	
Measuring temperature range	-50 to 300ºC / -58 to 572°F (161)
	-50 to 260ºC / -58 to 500°F (160)
Accuracy	±2ºC / ±3.6°F (-50 to -20ºC / -58 to -4°F)
	±1ºC / ±1.8°F (-20 to 100ºC / -4 to 212°F)
	±1% (100 to 300ºC / 212 to -572°F)
Resolution	0.1ºC / 0.1°F
Battery	2 x1.5V "AAA" batteries / 800 hr battery life
Material/Housing	ABS

Size(HxWxD): 150mm x 45mm x 20mm
Weight: 50g
Accessories :
2 x1.5V "AAA" batteries, Clamshell


Probe is suitable for various field test


Solid metal surface


Compact size


IP67 waterproof





CE

EMC
EN: 61326
EN: 60825-1

HACCP approved

DT-162/162W/163W
Professional BBQ Thermometers

162W/163W professional wireless BBQ thermometer measures the core temperature of grilled food, transmits it wirelessly to a portable display, signals its doneness and gives an acoustic and visual alarm when the cooking time is about to be exceeded. A temperature probe measures the temperature of the grilled or pan-fried food, while the transmitter sends the data to the portable receiver over a distance of up to approx. 30m. The receiver features an acoustic voice output in five languages. The temperature can be displayed in ºC or ºF. The stainless steel temperature probe can be disassembled from the transmitter for easy cleaning.
162 BBQ thermometer is with single measuring probe.
162W wireless BBQ thermometer is with single measuring probe.
163W wireless BBQ thermometer is with dual measuring probes.

Features

	162	162W	163W
Food and cooking temperature of the wireless transmission functions/Transmitter range		433MHz/ 30m	433MHz/ 30m
Probe measurement	Single	Single	Dual
LED for signal indication	*	*	*
Temperature and Time gauge alarm functions	*	*	*
Food type and taste level selection	*	*	*
Food, temperature and time display	*	*	*
℃/℉ temperature selection	*	*	*
Backlight function	*	*	*
Power supply	2x1.5V AAA	2x1.5V AAA	2x1.5V AAA

Specification

Temperature range	-40 to 230°C / -40 to 446°F
Temperature accuracy	±1% ±1°C / ±1% ±1.8°F

Size(HxWxD): 105mm x 58mm x 30mm
Weight: 350g





Model：162



Model：162W



Model：163W

IR-92/93
Food Safety Infrared Thermometer

IR-92/93 Series Non-contact Infrared Thermometers can be used to measure the temperature of objects' surface that is improper to be measured by traditional (contact) thermometer (such as moving object, the surface with electricity current or the objects which are uneasy to be touched.)



Model IR-92



Features

	IR-92	IR-93
User selectable ºC or ºF	*	*
Laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
Overrange indication	*	*
For food	*	

EMC
EN: 61326
EN: 60825-1

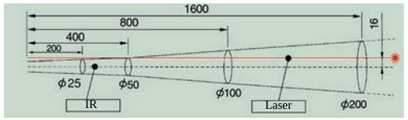
Specifications

	IR-92	IR-93
Temperature Range	-35 to 300°C/-31to 572°F	-18 to 300°C/ 0 to 572°F
D:S	4:1	8:1
Temperature accuracy	Blow 39°F (4°C) ±3.6°F (2°C) 39 to 150°F (4 to 65°C) ±2°F (1°C) Above 149°F (65°C) ±(1%+2°F(1°C)) of reading.	±3.6°F(2°C) or ±2% of reading
Response Wavelength range	8-14um	
Resolution	0.1	
Emissivity	Fixed at 0.97	Fixed at 0.95
Response Time	About 150ms	
Laser wavelength	630-660nm	
Laser class	Class 2	
Low power indication	Yes	

Size(HxWxD): 186mm x45mm x 38mm
Weight: 190g

Accessories:
9V battery, Clamshell.

Distance (D) to Spot size(S)
D:S=8:1



(Unit: mm)

IR-96 Food Safety IR Thermometer with Thermistor Probe



Model IR-96



EMC
EN: 61326
EN: 60825-1

Features

User selectable ºC or ºF
Data Hold & Auto Power Off
Overrange indication
Max, Min record
IR with probe temperature

Specifications

IR Temp. Range	-35ºC to 260ºC/ -31ºF to 500ºF
IR Temp. Resolution	0.1ºC/ºF
Optical Resolution	1:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0
Thermistor Temperature Range	-40ºC to 260ºC/ -40ºF to 500ºF
Resolution	0.1ºC/ºF
Response Time	Less than 1 second
Basic Accuracy	±2% of reading

Size(HxWxD): 140mm x 42mm x 25mm
Weight: 80g
Accessories: CR2032 Button battery, Clamshell.

DT-880B Food Thermometer with Red/Green LED Indication



Model 880B

- High Accuracy for food temperature measurement.
- Set alarm & Sound alarm if temperature is exceeded.
- Digital LCD display with backlit.
- Data displayed in Celsius or Fahrernheit.
- Auto power off (energy saver).
- Small, convenient, easy to use.

EMC
EN: 61326
EN: 60825-1

Specifications

Surface Temp.range	-50.0 to 200ºC(-58ºF to 392ºF)
Basic Accuracy	±0.3ºC/±0.6ºF at 30ºC~40ºC/ 86ºF~104ºF Range
Optical Resolution	8:1 Distance to Spot size
Resolution	0.1ºC/F
Response Time	Less than 1 second
Emissivity	Fixed at 0.95

Size(HxWxD): 160mm x 82mm x 42mm
Weight: 177g
Accessories:
9V battery, Carrying case and Gift box.

DT-270KT/270GT
Food Safety type-K Thermometer

The 270KT Food safety type-k thermometer in the food sector, cooling chain compliance has to be checked and verified. The ambient conditions may also have an influence on product quality. This makes continuous monitoring of temperature and relative humidity in the warehouse essential.

Specifications

	DT-270KT	DT-270GT
Room Temp		
Temp range	-40 to 70ºC	-20 to 75ºC
Temp accuracy	±1.0ºC	±0.5ºC (0℃-60ºC), ±0.7ºC (residual range)
Resolution	0.1ºC	0.1ºC
Humidity range	0 to 100%RH	
Humidity accuracy	±3%RH(10%RH to 90%RH), ±4.5%RH(residual range)	
Resolution	0.1%RH	
External probe	**Temp K**	**Temp and Humidity probe**
Range	-50 to 350ºC	-40 to 85ºC, 0 to 100%RH
Accuracy	0.15%rgd+1.0ºC	±0.5ºC (0 to 60ºC), ±0.7ºC (residual range) ±3%RH(10%RH to 90%RH), ±4.5%RH(residual range)
Resolution	0.1ºC(-99.9 to 999.9ºC) 1ºC(residual range)	0.1ºC 0.1%RH
Protection class	IP54	IP67
Measurement rate	1 sec to 60 min (1 sec default)	
Communication rate	5min to 1hour (5 min default)	
Memory	4,070 readings/channel	
Battery life	12h at 25ºC 5min Communication cycle, 2sec Measurement rate	45 day at 25ºC 30 min Communication cycle, 2sec Measurement rate
Voltage supply	4 x AA batteries Micro USB for temperatures below -10ºC(14ºF) please use Energizer batteries	4 x AA batteries USB type-C for temperatures below -10ºC(14ºF) please use Energizer batteries
Communication interface	WIFI(2.4GHz,IEEE 802.11 b/g/n)	4G LTE Cat 1(LTE-FDD: B1/B3/B5/ B8,LTE-TDD: B34/B38/B39/B40/ B41,GSM: 900/1800 MHz)

Size(HxWxD): 68mm x 108mm x 35mm **Weight:** 172g
Accessories: Li-ion battery, charger, adaptor and gift box.







Model 270KT





Model 270GT

EMC
EN: 61326
EN: 60825-1

IR-100 2 in 1 Food Safety Infrared Thermometer

IR-100 2 in 1 Food safety Infrared Thermometer with a platinum probe is a fully integrated temperature measuring device for managing HACCP and inspection programs for retail and food service organizations. It is with bluetooth for a mobile application, cloud-based enterprise server and easy to read the temerpature shown on the smartphone by APP.

Features

2 in 1 Food safety Infrared Thermometer with a platinum probe
Manage Food Quality and HACCP
Platinum probe for high accurate measurement
Infrared thermometer for surface temperature scanning
LED indication for cold and hot food temperature
Data Hold, Auto Power Off , Overrange indication, Max/Min record, User selectable ºC or ºF
Bluetooth Interface and Andriod/iOS APP software
Rechargeable Li-ion battery with charger

Specifications

IR Temp. Range	-40ºC to 300ºC/ -40ºF to 572ºF
Optical Resolution	2:1 Distance to Spot size
Emissivity	Fixed at 0.95
Platinum Thermistor Temperature Range	-40ºC to 250ºC, -40ºF to 482ºF
Resolution	0.1ºC/ºF
Response Time	Less than 1 second
Basic Accuracy(Platinum Thermistor)	±0.6ºC/ ±1.1ºF

Size(HxWxD): 176mm x 55mm x 41mm **Weight:** 210g
Accessories: Li-ion battery, charger, adaptor and gift box.



EMC
EN: 61326
EN: 60825-1

Bluetooth

Model: IR-100









IR Sensor

DT-70
Deep-frying Oil Tester



Model 70

CE

EMC
EN: 61326
EN: 60825-1



High Quality Sensor

DT-70 is a handy measuring instrument for fast testing of cooking oils. It can display the temperature of the cooking oil and TPM value.The TPM value (total polar materials) enables a statement on the ageing of cooking oils due to the effects of heat.

Features

Display the temperature of the cooking oil: Indicator for correct setting of the deep fat fryer, checking of integrated temperature displays.
Display the TPM value: Indicator for the aging of the cooking oil.
The sensor works on a capacitive basis and determines as the reading the total polar materials as a %

Specifications

Measuring range	Temperature: 40 to 200°C; (104 to 392°F) TPM: 0 to 40%
Accuracy	Temperature: ±1.5°C TPM: ±2%
Resolution	Temperature: 0.1°C TPM: 0.5%
Battery life	approx 25h of continuous operation(corresponds to 500 measurements)
Operating temperature	0 to 50 °C
Storage/transport temperature	-20 to 70 °C
TPM response time	< 30s
Protection class	IP68

Size(HxWxD): 365mm x 48mm x 26mm **Weight:** 248g

Accessories: 2x1.5V"AAA"batteries, Carrying case and Gift box.



DT-133A/133B Pen type Thermometers



Model 133B



Model 133A

Faster Reaction time 6s (133A)

High Accuracy

CE

EMC
EN: 61326
EN: 60825-1

The contact thermometers offer fast response and laboratory accuracy. These thermometers offer 0.1ºC/0.1ºF resolution over the entire measurement ranges. A rugged holster protects both models.

Easy to use: Remove the protective sheath, press the ON/OFF button and insert into the testing area.
LCD screen shows readings in Fahrenheit or Celsius





DT-130/131/132/133/167
Pen type Thermometers

The contact thermometers offer fast response and laboratory accuracy. These thermometers offer 0.1ºC/0.1ºF resolution over the entire measurement ranges. A rugged holster protects both models.

- Easy to use: Remove the protective sheath, press the ON/OFF button and insert into the testing area.
- LCD screen shows readings in Fahrenheit or Celsius
- 132 is pen type humidity & temperature meter
- The display content is displayed by Angle (167)
- Type K thermocouple (167)

High Accuracy

LED screen shows readings in Fahrenheit or Celsius (167)





CE

EMC
EN: 61326
EN: 60825-1



Model 167

Features

	130	130A	131/133	131A	132	133A	133B	167
User Selectable ºC or ºF	*	*	*	*	*	*	*	*
Resolution 0.1ºC/0.1ºF	*	*	*	*	*	*	*	*
Sampling time 2.0 seconds	*	0.5S	*	0.5S	*	0.5s	0.5s	0.5s
Reaction time	10s	6s	10s	6s	10s	6s	6s	10s
LCD display	*	*	*	*	*	*	*	LED
Max / Min Hold and Data Hold			*		*	*	Data Hold	
Auto Power Off	*	*	*	*	*	*	*	*
Humidity & Temperature measurement	Temp.	Temp.	Temp.	Temp.	*	Temp.	Temp.	Temp.
2.0mm Diameter probe shaft tip		*		*		*	*	1.2mm
Backlight							*	
Automatic startup measurement								*

Specifications

Function	Range	Basic Accuracy	130A	131A	133A	130	131/133	132	133B	167
Temperature	-40~250ºC/482ºF	±1.5%				*	*	*	*	
	-40~200ºC/392ºF	±1.0%	*	*	*					
	-50 to 0ºC	±2ºC								*
	0 to 350ºC	±1.5ºC or 1%								*
Humidity	10%RH~95%RH	±3.5%						*		

Size(HxWxD): 130:150mm x 40mm x 28mm
131/132/133:211mm x 32mm x 19mm
133B: 192mmx30mmx22mm

Weight: 130:19g, 131/132/133:35g, 133B: 50g

Accessories : One LR44(1.5V) button battery and clamshell.







Model 132



Model 130



Model 133



Model 131

150ms faster sampling time



Model IR-861



Model IR-865



Model IR-869

IR-861/865/869 IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. It allows to read the measured data in dim environment with backlight.

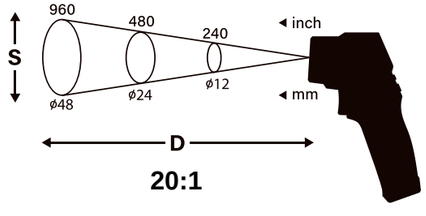
Features

	IR-861	IR-865	IR-869
User selectable ºC or ºF	*	*	*
Circular laser targeting	Single Laser	*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
Negativity display		*	*
Overrange indication	*	*	*
MAX/MIN/DIF/AVG display	*	*	*
High/Low temp. alarm/record	*	*	*
Backlight	*	*	*
Adjustable emissivity	*	*	*
Response Time	Less than 300ms	Less than 300ms	Less than 150ms

Specifications

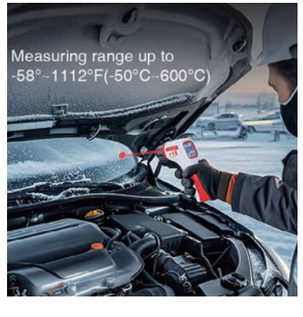
	IR-861	IR-865	IR-869
Temperature Range	-50ºC to 600ºC -58ºF to 1112ºF	-50ºC to 760ºC -58ºF to 1400ºF	-50ºC to 1000ºC -58ºF to 1832ºF
Distance to Spot size	12:1	12:1	20:1
Accuracy	±2ºC or ±2°C	±1.5% or ±2°C	±1% or ±1.5°C
Resolution	0.1ºC/ºF		
Emissivity	Adjustable 0.10~1.0		

Size(HxWxD): 131mm x 96mm x 35mm **Weight:** 130g
Accessories: 2x1.5V“AAA”batteries, Carrying case and Clamshell.



EMC
EN: 61326
EN: 60825-1





Features

	IR-65	IR-65B	IR-67	IR-67B
User selectable ºC or ºF	*	*	*	*
Auto Power Off, Low battery indication	*	*	*	*
Lock function, Automatic Data Hold	*	*	*	*
Set Min, Max	*	*		
Fast sampling time	<1s	300ms	<1s	<1s
Housing material	Plastic	Plastic	Plastic	Metal
High accuracy		1.5%		1.5%





EMC
EN: 61326
EN: 60825-1

Specifications

	IR-65	IR-65B	IR-67	IR-67B
Range	-35ºC~230ºC/- 31ºF~446ºF	-35ºC~250ºC/ -31ºF~482ºF	-35ºC~230ºC/ -31ºF~446ºF	-35ºC~250ºC/ -31ºF~482ºF
Basic Accuracy	±2% or ±2ºC/±4ºF	±1.5% or ±2ºC/±4ºF	±2% or ±2ºC/±4ºF	±1.5% or ±2ºC/±4ºF
Response Time	Less than 1 second			
Optical Resolution	1:1			
Emissivity	Fixed at 0.95	0.1 to 1(adjustable)	Fixed at 0.95	
Resolution	0.1ºC/ºF			



≤100ºC Green backlit



>100ºC Red backlit



Model IR-67



Model IR-65

Size: 80mm x 40mmx25mm (IR-65/65B), 100mm x 25mm(IR-67/67B) **Accessories :** One CR2032 button battery & Clamshell (IR-65/65B)
Weight: 36g (IR-65/65B) 33g(IR-67/67B) Two LR44(1.5V) button batteries, Clamshell (IR-67/67B)

IR-66/66B Pocket InfraRed Thermometers

Features

	IR-66	IR-66B
User selectable ºC or ºF	*	*
Auto Power Off, Low battery indication	*	*
Lock function, Set Min, Max, Data Hold	*	*
Fast sampling time	<1s	300ms

Specifications

	IR-66	IR-66B
Range	-35ºC~230ºC/ -31ºF~446ºF	-35ºC~250ºC/ -31ºF~482ºF
Response Time	Less than 1second	Less than 300ms
Basic Accuracy	±2% or ±2ºC/±4ºF	±1.5% or ±2ºC/±4ºF
Optical Resolution	1:1	
Resolution	0.1ºC/ºF	
Emissivity	Fixed at 0.95	

Size(HxWxD): 75mm x 40mm x 20mm **Weight:** 33g
Accessories: One CR2032 button battery, Carrying Case & Clamshell.

1.5% Accuracy (IR-66B)

300ms faster sampling time (IR-66B)

- 300ms quickest sampling time with 1.5% accuracy (IR-66B)
- Easy to use : hold it within two feet of the area to be measured and push the button
- Large LCD screen shows readings in Fahrenheit or Celsius
- Range: -35 to 250ºC/-31 to 482ºF
- Compact size design for the ultimate in convenience and portability



Model IR-66B



Model IR-66

IR-77H/88/88H/88G series Pocket InfraRed Thermometers with Laser Pointer

The IR-77H/88/88H series Pocket InfraRed Thermometers are new models designed with lower cost. Check all types of A/C and heating systems. Monitor performance of appliances such as refrigerator, dishwasher, freezer and oven. Ensure proper cooking, grilling and storage temperatures.

- Built-in laser pointer identifies target area
- 6:1 Distance to Spot size ratio
- Data Hold and Max Hold (IR-88/88H)
- Fixed emissivity 0.95 covers 90% of surface applications
- Adjustable Emissivity (88H/88G)
- 0.1º resolution, Lock for continuous use (88H)
- Programmable alarm setpoint (88H)







6:1 Distance to Spot

Adjustable Emissivity (88H)

Laser Pointer

Measure up to 270ºC/518ºF

EMC
EN: 61326
EN: 60825-1



Model IR-88



Model IR-77H

Specifications

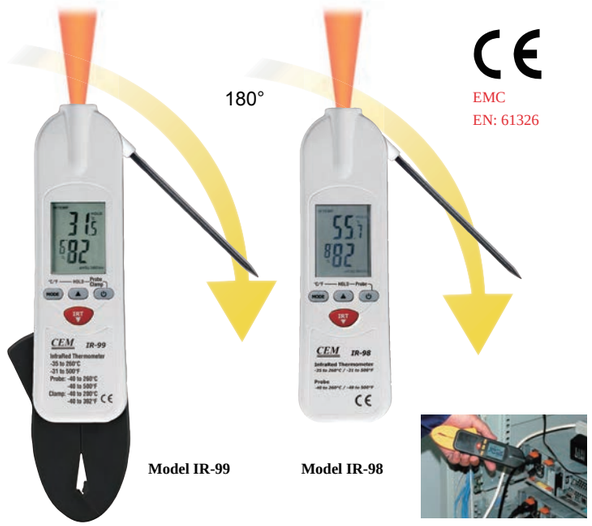
	IR-77H	IR-86/IR-87/IR-88	IR-88H	IR-88G
Range	-30ºC~270ºC/ -22ºF~518ºF	-20ºC~270ºC/ -4ºF~518ºF	-20ºC~270ºC/ -4ºF~518ºF	-20ºC~500ºC/ -4ºF~932ºF
Response Time	Less than 1 second			
Resolution	0.1ºC/ºF			
Basic Accuracy	±2% or ±2ºC/±4ºF			
Optical Resolution	6:1			
Emissivity	Fixed at 0.95	Fixed at 0.95	0.1 to 1 (adjustable)	
Battery	1.5V AAA battery x 2			

Size(HxWxD): IR-77H: 97mm x 57mm x 29mm
IR-86/87/88/88H: 97mm x 53mm x 25mm
Weight: 81g

Accessories :
Two “AAA” Batteries and Clamshell.

IR-98/99

3 in 1 IR Thermometer with thermistor probe & clamp



Model IR-99 Model IR-98

EMC
EN: 61326

Features

	IR-98	IR-99
User selectable ºC or ºF	*	*
Data Hold & Auto Power Off	*	*
Overrange indication	*	*
Max, Min record	*	*
IR with probe temperature	*	
IR with probe & clamp temperature		*

Specifications

		IR-98	IR-99
IR Temp. Range	-35ºC to 260ºC/ -31ºF to 500ºF	*	*
IR Temp. Resolution	0.1ºC/ºF	*	*
Optical Resolution	1:1 Distance to Spot size	*	*
Emissivity	Adjustable 0.10~1.0	*	*
Thermistor Temperature Range	-40ºC to 260ºC/ -40ºF to 500ºF	*	*
Resolution	0.1ºC/ºF	*	*
Clamp Temperature Range	-40ºC to 200ºC/ -40ºF to 392ºF		*
Response Time	Less than 1 second	*	*
Basic Accuracy	±2% of reading	*	*

Size(HxWxD): 140mm x 42mm x 25mm (IR-98) **Weight:** 80g
Size(HxWxD): 183mm x 52mm x 25mm(IR-99) **Weight:** 109g
Accessories: CR2032 Button battery, Clamshell.

IR-15 2 in 1 InfraRed Thermometer & Pressure Temperature Chart

EMC
EN: 61326



Model IR-15

2 in 1 Digital Infrared Thermometer with pressure temperature chart offers fast and accurate IR temperature or temperature references on a large easy-to-read LCD display.

- Rugged, double molded case
- Easy to chart the references of freezing devices

Specifications

IR Temp. Range	-30 to 500ºC/-22 to 932ºF
Response Time	Less than 300 ms
Basic Accuracy	±1.5% or ±2ºC/±4ºF
Optical Resolution	13:1
Resolution	0.1ºC/ºF
Emissivity	Fixed at 0.95

Size(HxWxD): 154mm x 61mm x 46mm **Weight:** 190g
Accessories : 9V battery, gift box with carrying case.

AC-8T 2 in 1 InfraRed Thermometer & Non-contact AC Voltage

EMC
EN: 61326



Model AC-8T

2 in 1 Infrared Thermometer with Non-contact AC Voltage(NCV) provides easy and safety measurement. Check all types of A/C, electronic and heating systems.

Specifications (IR thermometer)

IR Temp. Range	-35ºC~230ºC (-31ºF~446ºF)
Response Time	Less than 1second
Basic Accuracy	±2% or ±2ºC/±4ºF
Optical Resolution	1:1
Resolution	0.1ºC/ºF
Emissivity	Fixed at 0.95

Specifications (NCV)

Standard	CAT III 1000V
Operating Range	VoltFinder: 100 ~ 1000V AC; 200 ~ 1000V AC (European standard)

Size(HxWxD): 158mm x 21mm x 25mm **Weight:** 34g
Accessories : Two “AAA” batteries, clamshell

IR-2G

2 in 1 InfraRed Thermometer & Flash Memory



Model IR-2G

Specifications

IR Temp. Range	-35ºC~230ºC (-31ºF~446ºF)
Response Time	Less than 1second
Basic Accuracy	±2% or ±2ºC/±4ºF
Optical Resolution	1:1
Resolution	0.1ºC/ºF
Emissivity	Fixed at 0.95
Flash memory	2G bits

Size(HxWxD): 102mm x 35 x 20mm **Weight:** 48g
Accessories: Two “AAA” batteries, Clamshell.

IR-91

Panel InfraRed Thermometer

Features

User selectable ºC or ºF
Automatic Data Hold
Low battery indication & Auto Power Off
Set Min, Max, Lock

Specifications

Range	-35ºC~900ºC/ -31ºF~1652ºF
Response Time	Less than 500ms
Resolution	0.1ºC/ºF
Basic Accuracy	±1.5% or ±2ºC/±4ºF
Optical Resolution	50:1 Distance to Spot size
Emissivity	0.1 ~ 1.0 (adujstable)
Power	230 VAC (±10%), 0.1 A, switchable 50/60 Hz or 12 ~24 DCV

Size(HxWxD): 71mm x 71mm x 87mm **Weight:** 268g
Accessories : Stand, Cable and Gift box .

EMC
EN: 61326
EN: 60825-1



Model IR-91

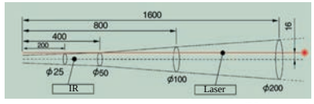
IR-82 InfraRed Thermometer Probe

- 8:1 Distance to Spot size ratio
- Built-in laser pointer
- Built-in Analog output of 1 mV/ºC or ºF & ºC/ºF switchable
- Compatible with multimeters, clamp meters, oscilloscope and industrial applications etc
- Ideal for applications where object being measured cannot be touched
- Provides instant , highly repeatable readings & Low battery indication

Specifications

Range	-35ºC to 550ºC/ -31ºF to 1022ºF
Response Time	Less than 500ms
Resolution	1mV/ºC or ºF
Basic Accuracy	±2% or ±2ºC/±4ºF
Optical Resolution	8:1
Emissivity	Fixed at 0.95
Battery	9V

Distance (D) to Spot size(S)
D:S=8:1



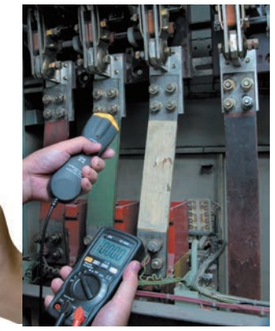
(Unit: mm)

Size(HxWxD): 166mm x 53mm x 40mm **Weight:** 189g
Accessories : 9V battery, Clamshell

EMC
EN: 61326
EN: 60825-1



Model IR-82



8811 Series and IR-68 Multifunction InfraRed Thermometers

Features

	8811H/8811	8812H/8812	IR-68
16"Gooseneck detector			*
User selectable ºC or ºF	*	*	*
Laser targeting	*	*	*
Automatic Data Hold	*	*	*
Audible and visible Overrange indication	*	*	
Auto Power Off	*	*	*
Backlit LCD Display	*	*	*
Low battery indication	*	*	*
Wide range	*	*	*
Automatic range		*	*

EMC
EN: 61326
EN: 60825-1





Model IR-68



Model 8811H

Features

	8811H	8812H	IR-68
Range	-20ºC to 500ºC/ -4ºF to 932ºF	-50ºC to 650ºC/ -58ºF to 1202ºF	-50ºC to 600ºC -58ºF to 1112ºF
Response time	Less than 1 second.	Less than 1 second.	Less than 1 second.
Resolution	0.1º up to 200º, 1º over 200º	0.1º up to 200º, 1º over 200º	0.1º up to 200º, 1º over 200º
Basic Accuracy	± 2% of reading or±2ºC/±4ºF	± 2% of reading or±2ºC/±4ºF	± 2% of reading or±2ºC/±4ºF
Optical resolution	8:1 Distance to Spot size	8:1 Distance to Spot size	8:1 Distance to Spot size
Emissivity	Fixed at 0.95	Fixed at 0.95	Fixed at 0.95

Size(HxWxD): 159mm x 79mm x 57mm **Weight:** 180g
Accessories: 9V battery, Clamshell or gift box with carrying case

Professional Digital Multimeters

Digital multimeter (DMMs) is a professional electrical engineers or electrical maintenance technicians essential tools, can help you quickly and accurately diagnose and troubleshoot all kinds of circuit problems. Every industrial instrument has been tested to the extreme: drop, shock, humidity, you name it. Each digital multimeter gives you what you need: accurate measurement; Consistent, reliable performance; Pay attention to safety; And the strongest assurance

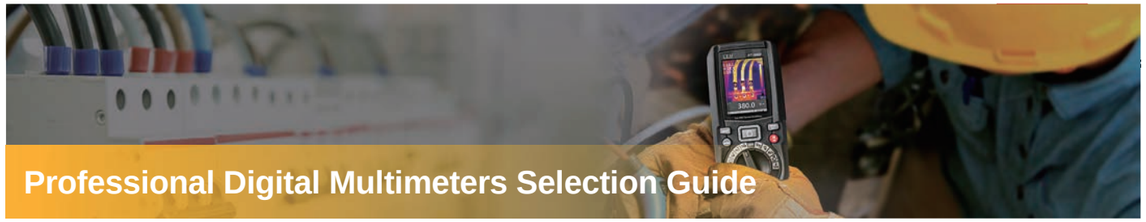
CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

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Professional Digital Multimeters Selection Guide



Professional True RMS Industrial Multimeter with InfraRed Thermal Imager

P127

DT-9889 is a professional True RMS digital multimeter and built-in 80 × 80 thermal imager ideal for commercial electricians, automation, electronics, field service and HVAC work etc. It can visually find the precise location of an electrical problem without direct contact and pinpoint hot spots faster, safer, and more efficiently.
Thermview+ software & cloud sever support the Bluetooth function, the measured data can easily transferred to customers' smartphone for edit and storage.



Professional True RMS Multimeter Built-in Oscilloscope

P133

DT-9989 is True RMS multimeter + Oscilloscope + Data logger + Low pass filter + Trend Capture feature, all in one! CEM DT-9989 professional multi-purpose instrument is outgoing right-hand product for engineers. It can quickly solve complex problems in electronics, factory automation, power distribution, electronic engineering equipment and etc.
TFT color LCD display + IP67 dustproof and waterproof + Bluetooth interface to smartphone/ PC bring you a better experience.



Heavy Duty True RMS Industrial Multimeter with Backlight

P141

DT-965BT with automatic backlight for LCD, buttons and knob switch, it is the perfect multimeter for weak light or night use. Protection against water rating IP67 and plus the strong flashlight, it is more safety and reliable.



50,000 counts True RMS Industrial Multimeter with Bluetooth

P137

DT-989 Heavy duty True RMS industrial digital multimeter with 50,000 counts TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and trend capture features. Offering low pass filter help user accurately analyze non-traditional sine waves and noisy signals. It is easy to find and solve the electrical problems.
It features Bluetooth technology to connect a compatible smartphone for remote viewing and sharing, software Meterbox Pro can store and analyze the data.



Heavy Duty True RMS Industrial Multimeters with VFD Measurement

P145

DT-9560/9561/9562/9663H heavy duty industrial digital multimeter with VFD measurement, the advanced variable frequency drive filtering to help user accurately analyze non-traditional sine waves and noisy signals. It also offers comprehensive features like μA current measurement capability and durable design for quick and safe troubleshooting of electrical, electronic, and HVAC/R systems. It can assess temperatures up to 1000°C (1832°F) with the Type-K thermocouple.
Protection against water rating IP67 is more safety and reliable.

Professional True RMS Industrial Multimeter

Built-in InfraRed Thermal Imager design quickly identifies hot spots without contact

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033





Support ***Images*** capture capabilities

Support ***MicroSD*** memory card extention

Data Logger

Date/Time setup controls







IP65 Waterproof | True RMS ACV/ACA | Multiple PCB | Double Molded Plastic housing | Double Molded Test Leads | Backlight | Bluetooth | Thermview+

- *TFT color LCD display*
- *PC Calibration*

- *IP65 dust and water proof*
- *True RMS*

9889 Professional True RMS Industrial Digital Multimeter built-in Thermal Imager design, providing fast A/D converting sampling time, high accuracy, datalogging and Trend Capture features. Advanced system platform permits smart multifunctions such as updating software on line and PC calibration etc.

Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

Features

Built-in Thermal Imager design quickly identifies hot spots without contact
240 x 320 2.8" TFT color LCD display
6000 Counts large LCD display
Logging function with Trend Capture for easy review of logged data
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
Long work time with Li-ion battery
AC, AC+DC true RMS measurements & 1kHz ACV, ACA bandwidth
3000A Flexible Coil Current Measurements
A/D convert fast sampling time: 10 Times/sec.
Peak capture (records transients as fast as 500µs)
Min/Max/Average with Time stamp (records signal fluctuations)
MicroSD memory card
Support capture screen capabilities
120x120 Infrared resolution
Bluetooth BLE instant share function
Easy to view and analyze images quickly
Non-Contact Voltage detection (VAC:100V~1000V)

Specifications

Thermal Imager			
IR resolution	120x120 pixels		
Field of View (FOV)	21° x 21°		
Thermal sensitivity/NETD	< 0.1°C@ +30°C(+86°F)/100mK		
Image frequency	50Hz		
Object temperature range	-20 to 260°C (-4 to 500°F)		
Focus mode	Focus free		
Focal length	7.5mm		
Spectral range	8-14 µm		
Color palettes	Iron/Rainbow/Grey/Grey Inverted		
Accuracy	±3°C (±5.4°F) or ±3% of reading (Environment temperature 10°C-35°C, object temperature >0°C.)		
True RMS Multimeter Functions			
Function	Max. Range	Max. Resolution	Best Accuracy
Voltage DC	1000V	100mV	±(0.09% + 5)
Voltage AC	1000V	100mV	±(0.8% + 5)
Current DC	10A	0.1µA	±(0.9% + 5)
Current AC	10A	0.1µA	±(1.2% + 5)
Resistance	60MΩ	0.1Ω	±(0.5% + 5)
Capacitance	6000uF	0.01nF	±(1.2% + 8)
Frequency	10MHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	8 hours Li-ion rechargeable battery;AC Adaptor/charger		

Size(HxWxD): 195mm x 80mm x 58mm **Weight:** 540g

Accessories:

Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V

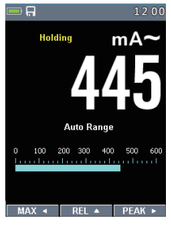
CE

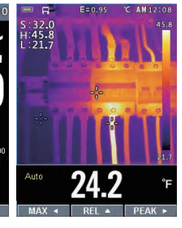
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

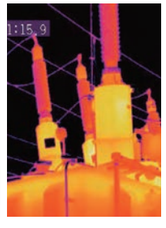
Bluetooth

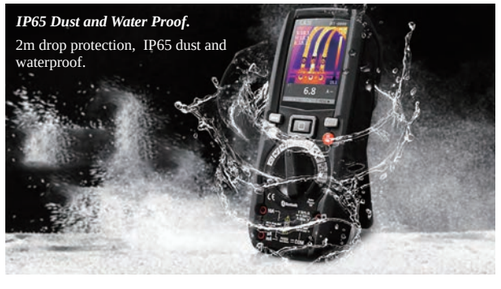


Model 9889









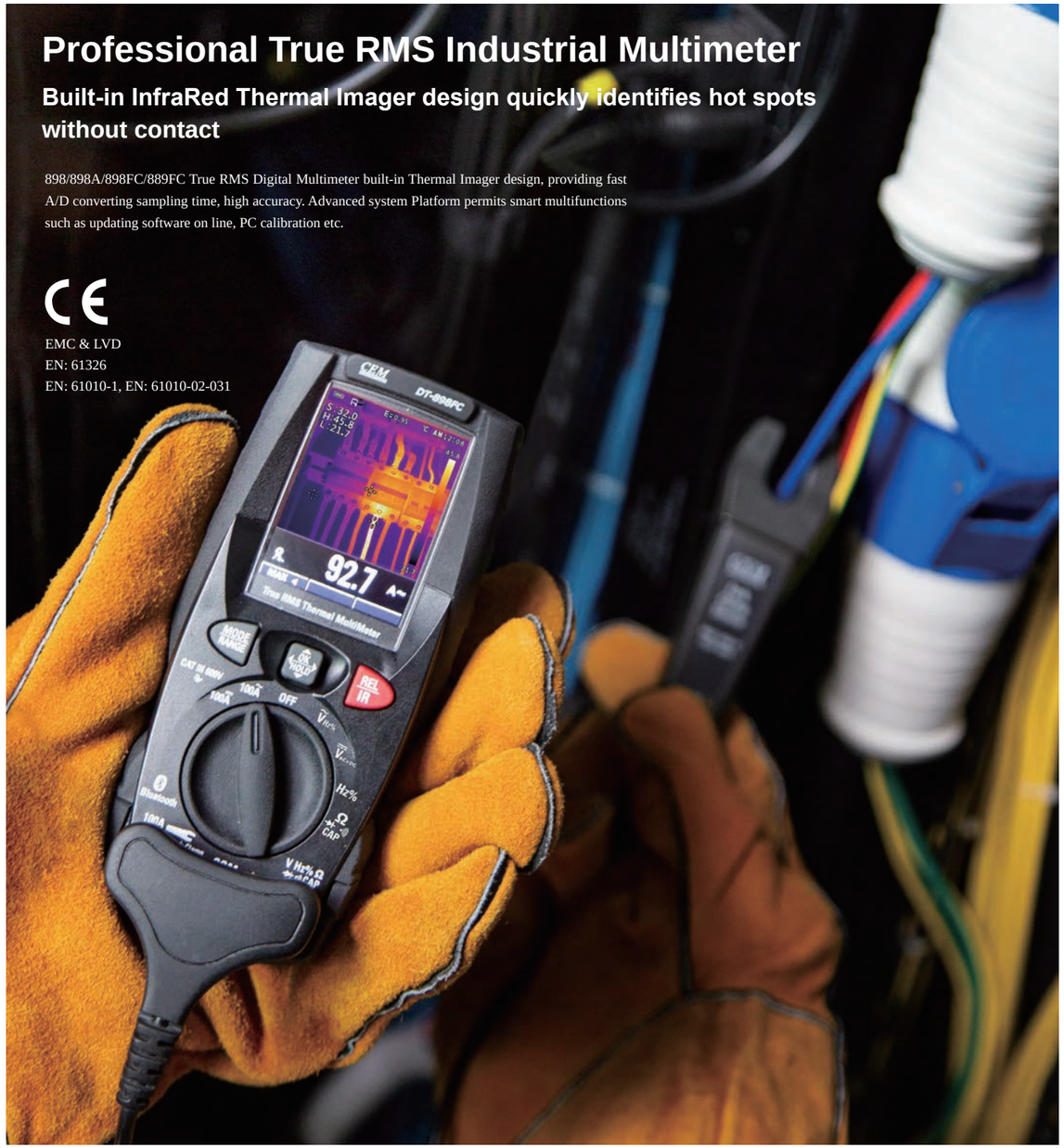
Professional True RMS Industrial Multimeter

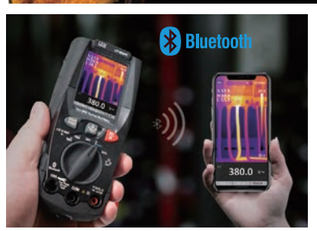
Built-in InfraRed Thermal Imager design quickly identifies hot spots without contact

898/898A/898FC/889FC True RMS Digital Multimeter built-in Thermal Imager design, providing fast A/D converting sampling time, high accuracy. Advanced system Platform permits smart multifunctions such as updating software on line, PC calibration etc.

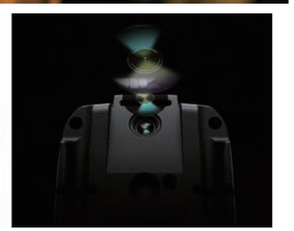
CE

EMC & LVD
EN: 61326
EN: 61010-1, EN: 61010-02-031









DT-898/898A/898FC/889FC
True RMS Compact Multimeter with InfraRed Thermal Imager





Model 898

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032,
EN: 61010-02-033



Model 898A



Model 898FC/889FC

Features

	898	898A	898FC	889FC
0.47” (12mm) Fork clamp sensor for AC/DC 100A current measurement			*	*
Bluetooth interface		*	*	*
4000 Counts large LCD display with True RMS measurements & flashlight	*	*	*	*
Built-in Thermal Imager design quickly identifies hot spots without contact	*	*	*	*
Logging function with Trend Capture for easy review of logged data (100,000 dot measurements)	*	*	*	
AC, AC+DC True RMS measurement & 1kHz ACV/ACA bandwidth	*	*	*	
240 x 320 2.4” TFT color LCD display	*	*	*	*
Built-in 0.3Megapixels visible light digital camera				*
A/D convert fast sampling time: 3 Times/sec.	*	*	*	*
Peak capture (records transients as fast as 500µs) & Data Hold	*	*	*	*
Min/Max with Time stamp (records signal fluctuations)	*	*	*	*
CAT III 600V Category safety rating	CAT III 300V CAT II 600V	*	*	*

Specifications

Thermal Imager		898	898A	898FC	889FC
IR resolution		120x120 pixels			32x32 pixels
Field of View (FOV)	15.6° x 15.6°	*			40°x40°
Thermal sensitivity/NETD	< 0.08°C /80mK	*			*
Image frequency	50Hz	*			9Hz
Object temperature range	-20 to 260°C (-4 to 500°F)	*			-20 to 300°C (-4 to 572°F)
Spectral range	8-14 µm				
Color palettes	Iron/Rainbow/Grey/Grey Inverted				
Accuracy	±2°C (±3.6°F) or ±2% of reading				

True RMS Multimeter Functions						
Mode			898	898A	898FC	889FC
Function	Max Range	Basic Accuracy				
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*
Current DC	10A	±1.5%	*	*		
Fork clamp DC curent	100A	±3.0%			*	*
Current AC	10A	±2.0%	*	*		
Fork clamp AC current	100A	±3.0%			*	*
Resistance	40MΩ	±1.0%	*	*	*	*
Capacitance	4000µF	±3.0%	*	*	*	*
Frequency	10MHz	±1.0%	*	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*	*
Diode Check & Continuity Test			*	*	*	*

EN 61010-1 CAT III 600V

EN 61010-1 CAT IV 300V



Thermview+

Available on the App Store

Get it on Google play





Full visible light (889FC)

Size(HxWxD): 148mm x 68mm x 48mm
Weight: 348g

Accessories:
Test leads, Li-ion battery, Software, gift box with carrying case.




Resistance measurement : 50MΩ
Capacitance measurement :10mF


Type K thermocouple temperature function


Built-in digital Oscilloscope and FFT functions


IP67 dust and water proof

DT-9979S
Professional True RMS Industrial Multimeter with TFT color LCD display

High Resolution · Waterproof · ACV/ACA · Multiple PCB · Double Molded Test Leads · Backlight · Bluetooth

9979S Professional True RMS Industrial Digital Multimeter with 50,000 counts and full Graphics Type LCD display with white backlight, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can monitor any problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safer to measure with double molded plastic housing design and IP67 waterproof function.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

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Model 9979S

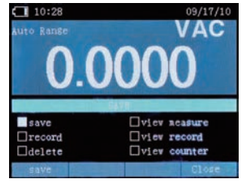
Features

Large 50,000 counts 320 x 240 TFT color LCD display
Voltage (DC/AC), current(DC/AC), resistor, diode, capacitance, frequency and duty cycle measurement
Ability to record data of signals and review Trend Capture curve, monitoring while you work on other project, it plots measurements as a single line to help detect signal anomalies over time; store up to 10,000 recorded events
Log multiple sessions or log data continuously over 200 hours.
Real Time Clock – for automatic time stamping of saved readings
Expandable meter lets you keep current as new capabilities
Allow to save and name the measurements, and also recall them at any time
Min/Max/Average with Time Stamp to record signal fluctuations
Auto zeroing function
Soft keys, scroll buttons much more secondary functions to access in easily
TRMS AC voltage and current for accurate measurements on complex signals or non-linear loads.
Measure up to 10A (20 A for 30 seconds; 10A continuous)
Peak hold function with calibration mode
10MHz Frequency counter and 1MHz duty cycle measurement
IP67 Waterproof and Auto Power Off
Bluetooth interface
Meterbox pro & cloud service

Specifications

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.3% + 20)
Current DC	10A	0.01µA	±(0.10% + 5)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-50ºC to 1000ºC	0.1ºC	±(1.0% + 2.5ºC)
Resistance	50MΩ	0.01Ω	±(0.05% + 5)
Capacitance	10mF	0.001nF	±(2.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	18 hours Li-ion rechargeable battery;AC Adaptor/charger		

Size(HxWxD): 220mm x 91mm x 56mm **Weight:** 630g
Accessories: Test leads, Li-ion battery, Type K temperature probe, Bluetooth and Software, gift box with carrying case.



Selectable Multifuntion



Trend Capture function

Bluetooth interface to smartphone / PC

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measuring data can be transmitted to smart phones via Bluetooth and visually analyze and store
- Users can annotate and save each measurement
- Data can be shared by e-mail and other platforms

Bluetooth Meterbox Pro

Available on the App Store
Get it on Google play



DT-9989

Professional True RMS Industrial Multimeter / Oscilloscope with TFT color LCD display

50000 counts High Resolution · IP67 Waterproof · True RMS AC/VAC/A · Multiple PCB · Double Molded Plastic housing · Safety Double Molded Test Leads · Backlight · Bluetooth



- *IP67 dust and water proof*
- *True RMS*
- *TFT color LCD display*
- *50000 counts*
- *PC Calibration*

Model 9989

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

EN 61010-1 CAT IV 600V · EN 61010-1 CAT III 1000V · TÜVRheinland ZERTIFIZIERT · GS geprüfte Sicherheit

www.tuv.com ID 1419033615

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



10MHz Oscilloscope Function



Selectable Multifuntion



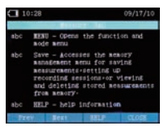
Trend Capture Function



High Resolution & Accuracy



Fast Response Time



Help Menu

Bluetooth interface to smartphone /PC

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- Users can annotate and save each measurement
- Data can be shared to e-mail and other platforms

Bluetooth Meterbox Pro

Available on the App Store · Get it on Google play



Features

50,000 counts 320 x 240 TFT color LCD display
20MHz bandwidth and 50ms/s realtime sample rate
Logging function with trend capture and over 10,000 data logging
Free software to calibrate accuracy
100kHz bandwidth (voltage/current)
AC, AC+DC True RMS measurements
0.025% DCV accuracy with fully PC calibration
Save measurements, records events and trends
20 times/sec. A/D convert fast sampling time
Peak capture (records transients as fast as 250µs)
Max/Min/Avg with time stamp (records signal fluctuation)
Motor winding and low ohm (50Ω) measurement range
Low pass filter
Bluetooth interface to smartphone / PC

Specifications

Oscilloscope Functions			
Display Size	3.5" color LCD; 320 x 240 pixels		
Bandwidth	10MHz		
Real Time Sample Rate	50MS/s		
Risetime	10ns		
Channel	1		
Vertical Sensitivity	50mV/div to 200V/div		
Vertical Resolution	8 bits		
Trigger Mode	Free Run, falling edge, rising edge		
Trigger Source	Internal		
Trigger Coupling	AC/DC		
Input Impedance	1MΩ/15pF		
Max Input Volatage	1000Vp-p		
Cursor Measurement	Voltage and time/ Frequency		
True RMS Multimeter Functions			
Function	Max	Max.resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025%+5)
Voltage AC	1000V	1µV	±(0.3%+25)
Current DC	10A	0.01µA	±(0.15%+2)
Current AC	10A	0.01µA	±(0.6%+5)
Temperature	-50ºC to 1000ºC	0.1ºC	±(1.0%+2.5ºC)
Resistance	50MΩ	0.01Ω	±(0.05%+2)
Capacitance	10mF	0.001nF	±(2.0%+40)
Frequency	10MHz	0.01Hz	±(0.01%+10)
Diode & Continuity	Yes		
Bluetooth Interface	Smartphone/PC		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 220mm x 96mm x 60mm **Weight:** 631g

Accessories: Test leads, Li-ion batteries, Type K temperature probe, Bluetooth and Software, Gift box with carrying case.

DT-9987

Professional True RMS Industrial Multimeter with TFT color LCD display

50000 counts High Resolution · IP67 Waterproof · True RMS AC/VAC/A · Multiple PCB · Double Molded Plastic housing · Safety Double Molded Test Leads · Backlight · Bluetooth

Bluetooth Meterbox Pro

The 9987 Professional True RMS Industrial Digital Multimeter with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture feactures. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safe to measure with double molded plastic housing design and IP67 waterproof.

- *TFT color LCD display*
- *50000 counts*
- *PC Calibration*

- *IP67 dust and water proof*
- *True RMS*

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

TÜVRheinland ZERTIFIZIERT · GS geprüfte Sicherheit

www.tuv.com ID 1419033615

EN 61010-1 CAT IV 600V · EN 61010-1 CAT III 1000V



Model 9987

Features

Large 50,000 counts 320 x 240 TFT color LCD display
Logging function with Trend Capture for easy review of logged data
Bluetooth interface for easy data transfer & accuracy calibration
100kHz bandwidth (voltage/current)
AC, AC+DC True-RMS measurements
Record events and trends
Save measurements
A/D convert fast sampling time
Peak capture (records transients as fast as 250µs)
Min/Max/Average with Time stamp (records signal fluctuations)
Moto winding and low ohm 50Ω measurement range
4-20mA process loop measurements with % reading
Low pass filter
IP Rating 67
Meterbox pro & cloud service

Specifications

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-50ºC to 1000ºC	0.1ºC	±(1.0% + 2.5ºC)
Resistance	50MΩ	0.01Ω	±(0.05% + 2)
Capacitance	10mF	0.001nF	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	18 hours Li-ion rechargeable battery;AC adaptor/charger		

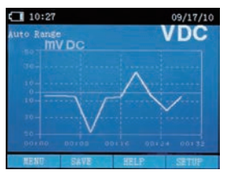
Size(HxWxD): 220mm x 96mm x 60mm **Weight:** 631g

Accessories:
Test leads, Li-ion batteries, Type K temperature probe,
AC adaptor Software, gift box with carrying case.





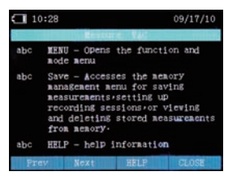
Fast response time



Trend Capture function



High Resolution & Accuracy



Help Menu

DT-9970/9971/9978

Professional True RMS Industrial Digital Multimeters

High Resolution · Waterproof · ACV/ACA · Multiple PCB · Plastic housing · Double Molded Test Leads · Backlight · Bluetooth · Meterbox Pro

9978 is the new Professional Digital Multimeter which provides safer measurements with double molded plastic housing design and IP67 waterproof function. 9978 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and 0.025% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that datasare easy to read under all circumstances.

Meterbox pro software & cloud server support to transfer the measured data to customer's smartphone for edit and storage.

All inputs are protected by EN 610101-1 CATIV 600V/CATIII 1000V.



Model 9978

Meterbox Pro

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Bluetooth



Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

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Model 9970

EN 61010-1 CAT IV 600V



Model 9971

EN 61010-1 CAT III 1000V

Specifications

Model		9970	9971	9978
	Max. Range		Best Accuracy	
DC Voltage	1000V	±(0.1%+8)	±(0.05%+5)	±(0.025% + 5)
AC Voltage	1000V	±(0.8%+40)	±(0.6%+40)	±(0.4% + 40)
DC Current	10A	±(0.2%+20)	±(0.15%+20)	±(0.15% + 2)
AC Current	10A	±(1%+15)	±(0.8%+15)	±(0.6% + 5)
Resistance	50MΩ	±(0.5%+20)	±(0.4%+20)	±(0.05% + 2)
Capacitance	10mF	±(1.5%+20)	±(0.2%+20)	±(1.0% + 5)
Frequency	10MHZ	±(0.1%+15)	±(0.1%+15)	±(0.005% + 1)
Temperature	-40°C~1000°C		±(1.0%+30)	±(1.0% + 2.5°)
Temperature	-40°F~1832°F		±(1.5%+50)	±(1.0% + 2.5°)
Features				
3.5" LCD Display Count		30,000	30,000	50,000
True RMS and Auto Range		*	*	*
Bandwidth (Hz)	100KHz	*	*	*
Duty Cycle	10%~90%	±(1%+30)	±(1%+30)	±(1%+30)
Diode		*	*	*
Auto Power Off		*	*	*
Continuity Buzzer		*	*	*
Low battery indication		*	*	*
Data Hold		*	*	*
Relative Mode		*	*	*
MAX/MIN		*	*	*
Data logging			100	*
Bluetooth Interface		*	*	*
Double Backlight		*	*	*
Analog Bar Graph		*	*	*
Full Icon Display		*	*	*
Setup		*	*	*
Input Impedance for DCV/ACV	10MΩ	*	*	*
4-20mA Loop	0~100%		±(1%+50)	±(1%+50)
10A/1000V & 0.5A/1000V fuses protection on current ranges		*	*	*
Current measurement alarm		*	*	*
Voltage & Current AC+DC Measurement		*	*	*

Size(HxWxD): 220mm x 96mm x 60mm
Weight: 631g

Accessories: Test leads, 6x1.5V "AAA" batteries, Type K temperature probe(9971), gift box with carrying case and Software

DT-9972/9973/9974

Professional True RMS Industrial Digital Multimeters

High Resolution · Waterproof · ACV/ACA · Multiple PCB · Plastic housing · Double Molded Test Leads · Backlight · Bluetooth · Meterbox Pro

9972/9973/9974 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9972/9973/9974 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and 0.025% basic DC accuracy within the reach of more customers.

All inputs are protected by EN 610101-1 CATIV 600V/CATIII 1000V.

- *Bluetooth interface*
- *50000 counts*
- *PC Calibration*

- *IP67 dust and water proof*
- *True RMS*

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V · EN 61010-1 CAT IV 600V

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www.tuv.com



Model 9972



Model 9973



Model 9974

Specifications

Model		9972	9973	9974
	Range		Best Accuracy	
DC Voltage	500mV/5V/50V/500V/1000V	±(0.025%+5)	±(0.025%+5)	±(0.025%+5)
AC Voltage	500mV/5V/50V/500V/1000V	±(0.4%+30)	±(0.4%+30)	±(0.4%+30)
DC Current	500μA/5000μA/50mA/500mA/10A	±(0.1%+15)	±(0.15%+15)	±(0.1%+15)
AC Current	500μA/5000μA/50mA/500mA/10A	±(0.7%+15)	±(0.7%+15)	±(0.7%+15)
Resistance	500Ω/5KΩ/50KΩ/500KΩ/5MΩ/50MΩ	±(0.3%+8)	±(0.3%+8)	±(0.3%+8)
Capacitance	50nF/500nF/5μF/50μF/500μF/5mF/50mF	±(1%+20)	±(1%+20)	±(1%+20)
Frequency	10Hz-10MHz	±(0.01%+8)	±(0.01%+8)	±(0.01%+8)
Temperature	-40°C~1000°C	±(1%+30)	±(1%+30)	±(1%+30)
Temperature	-40°F~1832°F	±(1.5%+50)	±(1.5%+50)	±(1.5%+50)
Power	2500W			±(2%+5)
Features				
3.5" LCD Display Count		50,000	50,000	50,000
Auto Range		*	*	*
True RMS		*	*	*
Bandwidth (Hz)	100KHz	*	*	*
Duty Cycle	10%~90%	±(1%+30)	±(1%+30)	±(1%+30)
Diode		*	*	*
Auto Power Off		*	*	*
Continuity Buzzer		*	*	*
Low battery indication		*	*	*
Data Hold		*	*	*
Relative Mode		*	*	*
MAX/MIN		*	*	*
Data logging		100	9999	100
Bluetooth Interface		*	*	*
Double Backlight		*	*	*
Analog Bar Graph		*	*	*
Full Icon Display		*	*	*
Setup		*	*	*
Input Impedance for DCV/ACV	10MΩ	*	*	*
4-20mA Loop	0~100%	±(1%+50)	±(1%+50)	±(1%+50)
10A/1000V & 0.5A/1000V fuses protection on current ranges		*	*	*
Current Measurement Alarm		*	*	*
Voltage & Current AC+DC Measurement		*	*	*

Size(HxWxD): 220mm x 96mm x 60mm
Weight: 631g

Accessories:
Test leads, 6x1.5V "AAA" batteries, Type K temperature probe, power adaptor(9974)
gift box with carrying case and Software

Heavy Duty True RMS Industrial Multimeter with TFT color LCD display



DT-989/989H
Heavy Duty True RMS Industrial Multimeter with TFT color LCD display



Bluetooth
Meterbox Pro

The 989 Heavy duty True RMS Industrial Digital Multimeter with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture feactures. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safer measurements with double molded plastic housing design.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

- *True RMS*
- *TFT color LCD display*
- *50000 counts*
- *PC Calibration*

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V

TÜVRheinland ZERTIFIZIERT
www.tuv.com
ID 1419033615



Model 989

Features

	989	989H
Large 50,000 count 320 x 240 TFT color LCD display	*	*
Logging function with Trend Capture for easy review of logged data	*	*
Graph 100 Data review	*	*
Bluetooth interface for easy data transfer & accuracy calibration	*	*
10kHz bandwidth (voltage/current)	*	100kHz
AC, ACV+DCV True-RMS measurements	*	*
Records events and trends	*	*
Saves measurements	*	*
10times/sec A/D convert fast sampling time	*	*
Peak capture (records transients as fast as 250µs)	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*
4-20mA process loop measurements with % reading	*	*
Battery capacity indication	*	*
Date indication	*	*
Meterbox Pro & cloud service	*	*
2m drop proof	*	*

Specifications

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	10mV	±(0.05% + 5)
Voltage AC	1000V	10mV	±(0.5% + 5)
Current DC	10A	10µA	±(0.2% + 5)
Current AC	10A	10µA	±(0.8% + 5)
Temperature	-200ºC to 1350ºC	0.1ºC	±(1.0% + 3ºC)
Resistance	50MΩ	10mΩ	±(0.2% + 10)
Capacitance	10mF	0.001nF	±(1.0% + 8)
Frequency	10MHz	0.0001Hz	±(0.01% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	7.4V Li-ion rechargeable battery; AC Adaptor		

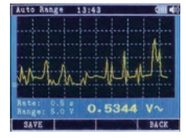
Size(HxWxD): 170mm x 79mm x 50mm **Weight:** 360g

Accessories: Test leads, Li-ion batteries, Type K temperature probe, Software, Power Adaptor, gift box with carrying case.





High Resolution & Accuracy



Trend Capture function



Help Menu



Fast response time

Bluetooth
Meterbox Pro
Available on the App Store
Get it on Google play

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- User can annotate and save each measurement
- Data can be shared to e-mail and other platforms

DT-988H

Heavy Duty True RMS Industrial Multimeter with TFT color LCD display

- True RMS
- TFT color LCD display
- 6000 counts
- PC Calibration



Model 988H

Bluetooth

Meterbox Pro

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

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ID 1419033615

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

The 988H Heavy duty True RMS Industrial Digital Multimeters with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture feactures. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memorizing the datasheets. It is much safer measurements with double molded plastic housing design.

Features

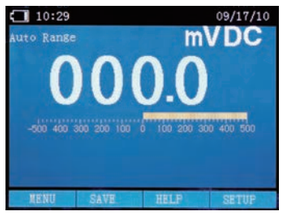
- Large 6000 counts 320 x 240 TFT color LCD display
- Logging function with Trend Capture for easy review of logged data
- Graph 100 Data review
- Bluetooth interface for easy data transfer & accuracy calibration (Optional)
- 1kHz bandwidth (voltage/current)
- AC ACV+DCV True RMS measurement
- Setup function & save measurement
- Fast sampling time
- Peak capture (records transients as fast as 500µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- 4-20mA process loop measurements with % reading
- Meterbox Pro & cloud service

Specifications

Function	Maximum	Max Resolution	Basic accuracy
Voltage DC	1000V	100mV	±(0.1% + 5)
Voltage AC	1000V	100mV	±(0.9% + 5)
Voltage AC+DC	1000V	100mV	±(3.0% + 20)
Current DC	10A	0.1µA	±(0.9% + 5)
Current AC	10A	0.1µA	±(1.2% + 5)
Temperature	1350ºC/2462ºF	0.1ºC/ºF	±(1.2% + 3º)
Resistance	60MΩ	0.1Ω	±(0.8% + 5)
Capacitance	10mF	0.01nF	±(1.2% + 8)
Frequency	10MHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	7.4V Li-ion rechargeable battery; AC adaptor		

Size(HxWxD): 170mm x 79mm x 50mm **Weight:** 360g

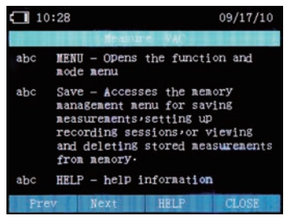
Accessories:
Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



Fast response time



High Resolution & Accuracy



Help Menu

DT-985/987A/987BT/987H

Heavy Duty True RMS Industrial Multimeter

The 985/987A Heavy duty True RMS Industrial Digital Multimeters with providing fast A/D converting sampling time, high accuracy. It can trace any interrupted problem of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments. It is much safer measurements with double molded plastic housing design.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

- True RMS
- 6000/60000 counts



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Model 985

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V



Model 987A



Model 987BT

Features

	985	987A	987BT	987H
Large 60,000/6000 counts LCD display with analog bargraph & backlight		*	*	*
10kHz bandwidth (voltage/current)	*	*	*	100kHz
AC True-RMS measurement	*	*	*	*
Low pass filter (VFD)		*	*	
A/D convert fast sampling time	*	*	*	*
Peak capture (records transients as fast as 500µs)	*	*	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*	*	*
Bluetooth interface for easy data transfer & accuracy calibration			*	*
4-20mA process loop measurements with % reading			*	*

Specifications

Function	Maximum	Max, resolution	Basic Accuracy	985	987A	987BT	987H
Voltage DC	1000V	10mV	±(0.9% + 5)		*	*	*
		100mV		*	*	*	*
Voltage AC	1000V	10mV	±(1.0% + 5)		*	*	*
		100mV		*	*	*	*
Current DC	10A	0.01µA	±(1.5% + 5)		*	*	*
		0.1µA		*	*	*	*
Current AC	10A	0.01µA	±(2.5% + 5)		*	*	*
		0.1µA		*	*	*	*
Resistance	60MΩ	10 mΩ	±(1.2% + 5)		*	*	*
		100 mΩ		*	*	*	*
Temperature	760ºC/1400ºF	0.1ºC/ºF	±(2.0% + 3º)	*	*	*	*
Capacitance	10mF	0.01nF	±(2.5% + 5)	*	*	*	*
Frequency	10MHz	0.01Hz	±(1.0% + 2)	*	*	*	*
Diode and Continuity	Yes						
Power Supply	1.5Vx4 “AAA” batteries.						

Size(HxWxD): 170mm x 79mm x 50mm
Weight: 360g

Accessories: Test leads, Batteries, Type K temperature probe, Software, gift box with carrying case.

DT-965/965T/965BT

Heavy Duty Industrial Digital Multimeters

6000 Counts · High Resolution · IP67 Waterproof · True RMS ACV/ACA · LoZ · Double Molded Plastic housing · Safety Double Molded Test Leads · Flashlight · Backlight · Bluetooth



Model 965

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

965 Series are new compact meters with double molded plastic housing and over sized high contrast 6000 counts LCD display. They are all CAT IV 600V/CATIII 1000V.

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

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www.tuv.com

Specifications

Model	Range	965	965T	965BT
DC Voltage (V)	600mV/6V/60V/600V/1000V	±(0.5%+1)	±(0.5%+1)	±(0.1%+2)
AC Voltage (V)	600mV/6V/60V/600V/1000V	±(1.0%+3)	±(1.0%+3)	±(0.8%+10)
DC Current (A)	600μA/6000μA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(0.5%+10)
AC Current (A)	600μA/6000μA/60mA/600mA/6A/10A	±(1.2%+3)	±(1.2%+3)	±(0.8%+3)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)
Capacitance (F)	40nF/400nF/4μF/40μF/400μF/4000μF	±(3.0%+5)		
	60nF/600nF/6μF/60μF/600μF/6000μF		±(3.0%+5)	±(3.0%+10)
Frequency(Hz)	10Hz-10KHz	±(0.1%+5)	±(0.1%+5)	±(0.01%+5)
Temperature(°C)	-20°C~760°C	±(1.2%+3°C)	±(1.2%+3°C)	±(1.0%+3°C)
Temperature(°F)	-4°F~1400°F	±(2.0%+4°F)	±(2.0%+4°F)	±(1.8%+4°F)
Features				
Display Count		6000	6000	6000
Auto Range		*	*	*
True RMS			*	*
Bandwidth(Hz)		45Hz-1kHZ	45Hz-1kHZ	45Hz-1kHZ
Duty Cycle	0.1~99.9%	*	*	*
Diode		*	*	*
Auto Power Off	Around 15 Minutes	*	*	*
Continuity Buzzer		*	*	*
Low Battery Indication	≤4.5V	*	*	*
Data Hold/Relative Mode		*	*	*
MAX/MIN/AVG		MAX/MIN	MAX/MIN	MAX/MIN/AVG
AC+DC				*
Peak Value			*	*
Bluetooth interface with Meterbox pro software				*
Automatic backlight for LCD, Button, knob Switch & Flashlight		*	*	*
Analogue Bar Graph		61	61	61
Low input Impedance for DCV/ ACV measurements	>3kΩ @ 600V MAX.		*	*
Input Protection		*	*	*
Input Impedance for DCV/ ACV	Around 10MΩ	*	*	*
IP67 Waterproof		*	*	*

Size(HxWxD): 170mm x 74mm x 45mm **Weight:** 218g

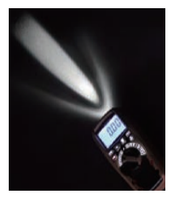
Accessories: Test leads, 1.5AAA x 4 batteries, Temperature Probe, carrying case and gift box.



Model 965BT

Meterbox Pro









DT-950/950B/951H/951BT/952BT

Compact Digital Multimeters

4000 Counts · High Resolution · IP67 Waterproof · True RMS ACV/ACA · LoZ · Double Molded Plastic housing · Safety Double Molded Test Leads · Flashlight · Backlight · Bluetooth

950 Series are new compact meters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They are all CAT III 600V.

EN 61010-1 CAT III 600V







TÜVRheinland ZERTIFIZIERT · GS geprüfte Sicherheit
www.tuv.com

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Meterbox Pro

Model 952BT

Specifications

Model	Range	950	950B	951H	951BT	952BT
DC Voltage (V)	400mV/4V/40V/400V/600V	±(0.8%+2)	±(0.8%+2)	±(0.8%+8)	±(0.8%+1)	±(0.8%+1)
AC Voltage (V)	4V/40V/400V/600V	±(1.0%+3)	±(1.0%+3)	±(1.5%+10)	±(0.8%+10)	±(0.8%+10)
DC Current (A)	4A/10A	±(1.0%+3)	±(1.0%+3)	±(1.0%+8)	±(0.5%+10)	±(0.5%+10)
	400μA/4000μA/40mA/ 400mA		±(1.0%+3)			±(1.0%+3)
AC Current (A)	4A/10A	±(1.2%+3)	±(2%+3)	±(2%+3)	±(1.2%+3)	±(1.2%+3)
	400μA/4000μA/40mA/ 400mA		±(1.2%+3)	±(1.5%+3)		±(1.2%+3)
Resistance (Ω)	400Ω/4KΩ/40KΩ/400KΩ/ 4MΩ/40MΩ	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)	±(0.8%+10)
Capacitance (F)	40nF/400nF/4μF/40μF/400μF/ 4000μF	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(3.0%+10)	±(3.0%+10)
Frequency(Hz)	10Hz-10MHz	±(1.2%+5)	±(1.2%+5)	±(1.2%+3)	±(1.2%+5)	±(1.2%+5)
Temperature(°C)	-20°C~760°C	±(1.2%+3°C)	±(1.2%+3°C)	±(1.5%+5°C)	±(1.0%+3°C)	±(1.0%+3°C)
Temperature(°F)	-4°F~1400°F	±(2.0%+4°F)	±(2.0%+4°F)	±(1.5%+9°F)	±(1.8%+4°F)	±(1.8%+4°F)
Features						
Display Count		4000	4000	4000	4000	
Auto Range		*	*	*	*	
True RMS				*	*	
Bandwidth(Hz)		45Hz-1kHZ	45Hz-1kHZ	45Hz-400HZ	45Hz-1kHZ	
Duty Cycle	0.1~99.9%	*	*	*	*	
Diode		*	*	*	*	
Auto Power Off	Around 15 Minutes	*	*	*	*	
Continuity Buzzer		*	*	*	*	
Low Battery Indication	≤3.5V	*	*	*	*	
Data Hold		*	*	*	*	
MAX/MIN		*	*	*	*	
Bluetooth interface with Meterbox pro software					*	
LCD Backlight		*	*	*	*	
Flashlight		*	*	*	*	
Analogue Bar Graph		41	41	41	41	
Low input Impedance for DCV/ ACV measurements	>3kΩ @ 600V MAX.			*	*	
Input Protection		*	*	*	*	
Input Impedance for DCV/ ACV	Around 10MΩ	*	*	*	*	
IP67 Waterproof		*	*	*	*	

Model 951H



Model 950

Size(HxWxD): 150mm x 65mm x 38mm
Weight: 188g

Accessories:
Test leads, 1.5V AAA x 3 batteries, Temperature Probe, carrying case and gift box.

Professional True RMS Industrial Multimeter



DT-9864H/9865H
Heavy Duty True RMS Industrial Multimeters with VFD Measurement

IP65 Waterproof · True RMS ACV/ACA · Multiple PCB · Double Molded Plastic housing · Double Molded Test Leads · Backlight · Bluetooth

Bluetooth Meterbox Pro

- *IP65 dust and water proof*
- *True RMS*

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

- *TFT color LCD display*
- *PC Calibration*

Features

	9864H	9865H
Low input impedance prevents false readings due to “ghost voltage” (LoZ)		*
3000A ACA flexible clamp		*
Peak Value		*
45Hz-1kHZ Bandwidth	*	
45Hz-10kHZ Bandwidth		*
Max/Min	*	
Low pass filter for accurate measurement of variable frequency drive (VFD) signals	*	*
6000 counts display with LCD backlight	*	*
True RMS Measurement	*	*
Duty Cycle 0.1~99.9%	*	*
Diode & Continuity Buzzer	*	*
Auto Ranging & Auto Power Off	*	*
Low Battery Indication ≤7.5V	*	*
Data Hold, Relative Mode	*	*
61 Analogue Bar Graph	*	*
Input terminal LED indication	*	*
Input Protection, Input Impedance for DCV & ACV (around 10MΩ)	*	*
IP65 Waterproof	*	*

Specifications

Model	Range	9864H	9865H
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)	±(0.5%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)
VFD	50.0V to 700V	±(4.0%+3)	±(4.0%+3)
Loz (V)	600V DC/AC		±(3.0%+30)
DC Current (A)	600μA/6000μA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)
AC Current (A)	600μA/6000μA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)
Flexible Coil Current 3000A	3000A		± (3.0% + 5)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	99.99nF/999.9nF/9.999μF/99.99μF/ 999.9μF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)
Frequency (Hz)	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)
Temperature(ºC)	-40ºC~1000ºC	±(3.0%+3)	±(3.0%+3)
Temperature(ºF)	-40ºF~1832ºF	±(3.0%+5)	±(3.0%+5)

Size(HxWxD): 185mm x 78mm x 46mm **Weight:** 366g

Accessories: Test leads, Li-ion battery, Software, gift box with carrying case.





Input terminal: LED indication

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 9864H



Model 320B (Optional)



Model 9865H

DT-9560/9560H/9561/9561H

Heavy Duty True RMS Industrial Multimeters with VFD Measurement

6000 Counts High Resolution | Double Molded Plastic housing | Safety Double Molded Test Leads | Backlight Backlight | 4000 Counts High Resolution

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Model 9561H

IP67

Features

- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- 6000 counts display with LCD Backlight
- True RMS measurement
- 45Hz~1kHz AC Bandwidth
- Diode & Continuity Buzzer
- Auto Power Off
- Low Battery Indication
- Data Hold Function
- Auto Ranging
- Max/Min
- Relative Mode
- Input Protection
- IP67 Waterproof

Specifications		Best Accuracy			
Model	Range	9560	9560H	9561	9561H
DC Voltage	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)		±(0.5%+5)	
	60mV/600mV/6V/60V/600V/1500V		±(0.5%+5)		±(0.5%+5)
AC Voltage	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
VFD	50.0V to 700V	±(4.0%+3)		±(4.0%+3)	
	50.0V to 600V		±(4.0%+3)		±(4.0%+3)
DC Current	600μA/6000μA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
AC Current	600μA/6000μA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)
Resistance	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
Capacitance	99.99nF/999.9nF/9.999μF/99.99μF/ 999.9μF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)
Frequency	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)
Temperature	-40ºC~1000ºC			±(3.0%+3)	±(3.0%+3)
	-40ºF~1832ºF			±(3.0%+5)	±(3.0%+5)

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



IP67 dust and water proof



2m Drop-proof

Size(HxWxD): 180mm x 82mm x 55mm **Weight:** 255g

Accessories: Test leads, 9V battery, temperature probe (9561) and gift box with carrying case.

DT-9562/9663H/9664H/9665H/9589/9589L

Heavy Duty True RMS Industrial Multimeters with VFD Measurement

6000 Counts High Resolution | Double Molded Plastic housing | Safety Double Molded Test Leads | Backlight Backlight | 4000 Counts High Resolution | Bluetooth Meterbox Pro

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EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V

IP67



Model 320B (Optional)



Model 9664H



Model 9562



Model 9589L



Model 9589

Features

- Low pass filter for accurate measurement of variable frequency drive (VFD) signals (9562/9664H/9589)
- Low input impedance prevents false readings due to “ghost voltage” (LoZ) (9664H/9589)
- 3000A ACA flexible clamp (9664H/9589)
- Peak Value (9664H/9589)
- 6000 counts display with LCD backlight
- True RMS Measurement
- 45Hz-1kHZ Bandwidth (9562/9663H/9664H)
- 45Hz-10kHZ Bandwidth (9589)
- Duty Cycle 0.1~99.9%
- Diode & Continuity Buzzer
- Auto Ranging & Auto Power Off
- Low Battery Indication ≤7.5V
- Data Hold
- Relative Mode
- Max/Min (9562/9663H)
- 61 Analogue Bar Graph
- Input Protection
- Input Impedance for DCV & ACV (around 10MΩ)
- IP67 Waterproof

Specifications						
Model	Range	9562	9663H	9664H	9589	9589L
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	
	500.00mV/5.0000V/50.000V/500.00V/1000.0V					±(0.1%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	
	500.00mV/5.0000V/50.000V/500.00V/1000.0V					±(0.5%+5)
AC+DC Voltage (V)	5.0000V/50.000V/500.00V/1000.0V					±(1.2% + 20)
VFD	50.0V to 700V	±(4.0%+3)		±(4.0%+3)	±(4.0%+3)	
Loz (V)	600V DC/AC			±(3.0%+30)	±(3.0%+30)	
DC Current (A)	600μA/6000μA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	
	500μA/5000μA/50mA/500mA/10A					±(0.5% + 5)
AC Current (A)	600μA/6000μA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)	
	500μA/5000μA/50mA/500mA/10A					±(0.8% + 5)
Flexible Coil Current 3000A	3000A			± (3.0% + 5)	± (3.0% + 5)	
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+5)	±(0.8%+2)	±(0.8%+2)	
	500.00Ω/5.0000KΩ/50.000KΩ/500.00KΩ/5.0000MΩ/50.000MΩ					±(0.8% + 5)
Capacitance (F)	99.99nF/999.9nF/9.999μF/99.99μF/999.9μF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)	
	50nF/500nF/5μF/50μF/500μF/10mF					±(1.0% + 8)
Frequency (Hz)	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	
	50Hz-10MHz					±(0.1% + 5)
Temperature(ºC)	-40ºC~1000ºC/ -58 to 1350°C	±(3.0%+3)/-	±(3.0%+3)/-	±(3.0%+3)/-	±(3.0%+3)/-	-/±(1.0%+3)

Size(HxWxD): 180mm x 82mm x 57mm **Weight:** 255g

Accessories: Test leads, 9V battery, temperature probe, carrying case and gift box.

Professional True RMS Industrial Digital Multimeters



- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- User can annotate and save each measurement
- Data can be shared to e-mail and other platforms

IP67 Waterproof · 40000 High Resolution · True RMS AC/VAC/A · Multiple PCB · Double Molded Plastic housing · Safety Double Molded Test Leads · Backlight Backlight · Bluetooth Meterbox Pro

9919/9929/9939/9949/9959 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9949/9959 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that data are easy to read under all circumstances.

All inputs are protected to EN 610101-1 CATIV 600V/CATIII 1000V.

- *Bluetooth interface (9959)*
- *50000 counts*
- *PC Calibration*

- *IP67 dust and water proof*
- *True RMS*

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V
EN 61010-1 CAT IV 600V
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www.tuv.com
ID 1419061762

Features

	9919	9929	9939	9949	9959
40,000 counts high resolution (0.01mV, 0.01μA, 0.01Ω)	*	*	*		
50,000 counts high resolution (0.01mV, 0.01μA, 0.01Ω)				*	*
Triple LCD display with bargraph & Backlit		*	*		*
AC+DC Measurement		*	*		*
9999 Reading memories		*	*		*
True RMS measurement & Peak capture mode	*	*	*	*	*
1000V input protection on all ranges	*	*	*	*	*
4-20mA process loop measurements with % reading	*	*	*	*	*
Data Hold/MAX/MIN recording mode	*	*	*	*	*
IP67 waterproof and auto power off	*	*	*	*	*
Wide capacitance range	*	*	*	*	*
Wireless USB interface			*		
Bluetooth interface with Meterbox pro software					*

Specifications

Function	Max. Range	Max. Resolution	Basic Accuracy
Voltage DC	1000 V	10μV	±0.03% (9949/9959) ±0.06% (9929/9939) ±0.06% (9919/9919B)
Voltage AC	1000V	10μV	±1.0%
Current DC	10A	0.01μA	±1.0%
Current AC	10A	0.01μA	±1.5%
Resistance	40MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	40mF	10PF	±3.5%
Temperature	1200°C/2192°F 760°C/1400°F(9919)	0.1°C/°F	±1.0%
Diode Check			
Continuity Test			

Size(HxWxD): 183mm x 82mm x 55mm **Weight:** 447g

Accessories: Test leads, 9V battery, Type K temperature probe, gift box with carrying case and Software (9959)
USB cable and Software (9939)



Model 9959



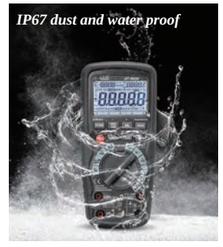
Model 9929/9939



Model 9919



Model 9949



DT-9915H/9917H/9918T/9918H

Professional True RMS Industrial Digital Multimeters

IP67 Waterproof | 4000 High Resolution | True RMS ACV/ACA | Multiple PCB | Double Molded Plastic housing | Safety Double Molded Test Leads | Backlight Backlight

They set the standard with a combination of precision, features, easy-to-use, safety and reliability.
True RMS AC Voltage, Current readings, as well as Frequency and Capacitance ranges.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

True RMS

IP67 dust and water proof

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V
EN 61010-1 CAT III 1000V
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Model 9918



Model 9915H



Model 9917H





Features

	9915H	9917H	9918T	9918H
Digital LCD display counts	6000	6000	4000	4000
True RMS measurement	*	*	*	*
Temperature measurement		*	*	*
IP67 & Safety design	*	*	*	*
Relative zero	*	*		
Wide capacitance range	*	*	*	*
Max/Min recording mode & Data Hold	*	*	*	*
Auto Power Off & Backlight	*	*	*	*
AC/DC current clamp-on adaptor input	*	*		
Peak capture mode			*	*
Analog bargraph/segment			*	*

Specifications

Function	Max. Range	Basic Accuracy	9915H	9917H	9918T	9918H
Voltage DC	1000 V	±0.5%+5digits	*	*	*	*
Voltage AC	1000V	±0.8%+3digits	*	*	*	*
Current DC	10A	±1.0%+3digits	*	*	*	*
Current AC	10A	±1.5%+3digits	*	*	*	*
Resistance	60MΩ	±0.8%+2digits	*	*		
	40MΩ				*	*
Duty Cycle	99.9%	±1.2%+2digits	*	*	*	*
Frequency	9.999MHz	±1.0%+5digits	*	*	*	*
Capacitance	99.99mF	±4.0%+5digits	*	*	40mF	40mF
Temperature	1300°C/2372°F	±3.0%+5°C/9°F		*		
	760°C/1400°F	±3.0%+5°C/9°F			*	*
AC/DC current clamp-on adaptor input			40A/400A			
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 182mm x 82mm x 55mm **Weight:** 360g

Accessories: Test leads, 9V battery, Type K temperature probe (9918T), gift box with carrying case.

DT-9926/9927/9927T/9928/9928T

Professional Digital Multimeters

IP67 Waterproof | True RMS ACV/ACA | Multiple PCB | Double Molded Plastic housing | Safety Double Molded Test Leads | Backlight Backlight

9926/9927/9927T series are the new 6000 counts multimeters. They are combination of precision, features, easy-to-use, safety and reliability.

9928/ 9928T are the new 11,000 counts and 9938 is the new 22,000 counts multimeter. They are combination of precision, features, easy-to -use, safety and reliability.

9927T/9928T has True RMS AC Voltage and Current readings, MAX/MIN recording.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

EN 61010-1 CAT III 1000V
EN 61010-1 CAT IV 600V
TÜVRheinland ZERTIFIZIERT www.tuv.com ID 1419061762
GS geprüfte Sicherheit

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 9927/9927T





Model 9926



Model 9928/9928T

Features

	9926	9927	9927T	9928	9928T
Digital display counts	6000	6000	6000	11,000	11,000
Max. Resolution	0.1mV/0.1μA/0.1Ω			0.01mV/0.01μA/0.01Ω	
True RMS measurement			*		*
Analog bargraph/segment	*/61	*/61	*/61		
Safety design	*	*	*	*	*
Relative mode	*	*	*	*	*
Data Hold	*	*	*	*	*
MAX/MIN recording mode	*	*	*	*	*
Auto Ranging	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Wide capacitance range	1000μF	1000μF	1000μF	110mF	110mF
Temperature function		*	*	*	*

Specifications

Function	Max. Range	Basic Accuracy
Voltage DC	1000 V	±0.09%
Voltage AC	1000V	±0.8%
Current DC	10A	±1.0%
Current AC	10A	±1.5%
Resistance	40MΩ	±0.3%
Duty Cycle	99.9%	±1.2%
Frequency	10MHz	±0.1%
Capacitance	40mF	±3.5%
Temperature	760°C/1400°F	±3.0%
Diode Check		
Continuity Test		

Size(HxWxD): 182mm x 82mm x 55mm
Weight: 360g

Accessories:
Test leads, 9V battery, Type K temperature probe and gift box with carrying case.

DT-9968/9968BT

Professional True RMS Industrial Digital Multimeter with OLED display

IP67 Waterproof | True RMS AC/VIACA | Multiple PCB | Double Molded Plastic housing | Double Molded Test Leads | Backlight | Bluetooth

9968/9968BT are Professional digital multimeters which provide safer measurements with double molded plastic housing design and IP67 waterproof function. 9968/9968BT performance as True RMS AC/DC voltage and current measurement, 6000 counts resolution. The large OLED display with analog bar-graph and backlit ensures that readings are easy to read under all circumstances.

All inputs are protected by EN 610101-1 CATIV 600V/CATIII 1000V.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fast fuses protection on current ranges

- *6,000 counts*
- *IP67 dust and water proof*
- *True RMS*



Model 9968BT



Model 320B

Meterbox Pro

Bluetooth Meterbox Pro

Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
User can annotate and save each measurement
Data can be shared to e-mail and other platforms

Available on the App Store | Get it on Google play

Features

	9968	9968BT
Large 6,000 count OLED display	*	*
Logging function with Trend Capture for easy review of logged data	*	*
Bluetooth interface for easy data transfer		*
2kHz bandwidth (voltage/current)	*	*
AC, ACV+DCV True-RMS measurements	*	*
Record events and trends	*	*
Save measurements	*	*
Peak Hold	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*
4-20mA process loop measurements with % reading	*	*
Battery capacity indication	*	*
Flexible Current test (320B optional)	*	*
Date indication	*	*
Bluetooth interface		*
Meterbox pro & cloud service		*

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 9968



Model 320B

Specifications

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	100mV	±(0.9% + 4)
Voltage AC	1000V	100mV	±(1.0% + 40)
Current DC	10A	0.1μA	±(1.8% + 5)
Current AC	10A	0.1μA	±(2.0% + 5)
Flexible A	3000A	0.01A	±(3.0%+5d)
Temperature	-20ºC to 1000ºC	0.1ºC	±(2.0% + 3ºC)
Resistance	60MΩ	0.1Ω	±(1% + 5)
Capacitance	60mF	0.01nF	±(2.0% + 10)
Frequency	10MHz	0.01Hz	±(0.5% + 4)
Diode	Max 3V Test current <0.5mA		
Continuity	Buzzer sounds at 50Ω		

Size(HxWxD): 170mm x 79mm x 50mm **Weight:** 342g
Accessories: Test leads, 9V battery.
Type K temperature probe and gift box.

DT-9967/9967T/9969

Professional Digital Multimeters

IP67 Waterproof | High Resolution | True RMS AC/VIACA | Multiple PCB | Double Molded Plastic housing | Double Molded Test Leads | Backlight

- *PC Calibration*
- *50,000 counts*
- *IP67 dust and water proof*
- *True RMS*

9969 is a Professional digital multimeter with 50000 counts resolution and a 0.06% basic DC accuracy within the reach of more customers.

9967/9967T series are the new 6600 counts multimeters. They are a combination of precision, easy-to-use, safety and reliability.

9967T has True RMS AC Voltage, Current readings, MAX-MIN recording, as well as Frequency and Capacitance readings.

All inputs are protected by EN 610101-1 CATIV 600V/CATIII 1000V.



Features

	9967	9967T	9969
Digital display counts	6600	6600	50,000
50,000 counts high resolution (0.001mV, 0.01μA, 0.01Ω)			*
True RMS measurement		*	*
1000V input protection on all ranges	*	*	*
Data Hold/ MAX/MIN /Relative function	*	*	*
Auto Power Off	*	*	*
Analog bargraph & segment	*	*	*
NCV Function	*	*	

Specifications

Function	Max. Range	Basic Accuracy	9967	9967T	9969
Voltage DC	1000 V	±0.5%	*	*	±0.06%
Voltage AC	1000V	±0.8%	*	*	±1.0%
Current DC	10A	±1.2%	*	*	±1.0%
Current AC	10A	±1.8%	*	*	±1.5%
Resistance	60MΩ	±0.8%	*	*	±0.3%
Duty Cycle	99.9%	±1.2%	*	*	±1.2%
Frequency	10MHz	±1.5%	*	*	±0.1%
Capacitance	100μF/60mF	±3.0%	*	*	±3.5%
Temperature	760ºC/1400ºF	±3.0%	*	*	±1.0%
Diode Check			*	*	*
Continuity Test			*	*	*

Size(HxWxD): 170mm x 79mm x 50mm **Weight:** 366g
Accessories: Test leads, 9V battery.
Type K temperature probe and gift box.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



Model 9969



Model 9967

DT-9960H/9961H/9964H/9965H Series

Professional Digital Multimeters





Model 9960H



Model 9961H



Model 9964H



Model 9965H

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V





Features

	9960	9960H	9961/9961W	9961H	9962/9962T	9963/9963T	9964H	9965H
Digital display counts	4000	6000	4000	6000	4000	6000	6000	6000
True RMS measurement		*	9961W	*	9962T	9963T	*	*
Safety design	*	*	*	*	*	*	*	*
Relative zero	*	*	*	*		*	*	*
Data Hold	*	*	*	*	*	*	*	*
MAX/MIN recording mode		*		*	*	*	*	*
VFD function							*	*
Current Clamp AC/DC 60A							*	
Auto Power Off	*	*	*	*	*	*	*	*
Peak capture mode					*			
Wide capacitance range		99.99mF		99.99mF	40mF	1000uF	99.99mF	99.99mF
Analog bargraph/segment					*/42	*/61	61	61
NCV Function	*	*	*	*	*	*	*	*
Live test		*		*				
Low input Impedance				*				*

Specifications

Function	Max. Range	Basic Accuracy	9960	9960H	9961/9961W	9961H	9962/9962T	9963/9963T	9964H	9965H
Voltage DC	1000 V	±0.5%	*	*	*	*	*	*	*	*
Voltage AC	1000V	±0.8%	*	*	*	*	*	*	*	*
Current DC	10A	±1.2%	*	±1.0%	*	±1.0%	*	*	±1.0%	±1.0%
Current AC	10A	±1.8%	*	±1.5%	*	±1.5%	*	*	±1.5%	±1.5%
Current Clamp DC	60A	±1.0%							*	
Current Clamp AC	60A	±1.2%							*	
VFD function	700V AC	±4.0%							*	*
Resistance	40MΩ	±0.8%	*	60MΩ	*	60MΩ	*	*	60MΩ	60MΩ
Duty Cycle	99.9%	±1.2%	*	*	*	*	*	*	*	*
Frequency	10MHz	±1.5%	*	*	*	*	*	*	*	*
Capacitance	100μF/40mF	±3.0%	100μF	99.99mF	100μF	99.99mF	40mF	1000μF	99.99mF	99.99mF
Temperature	760°C/1400°F	±3.0%		1000°C/1382°F	*	1000°C/1382°F	*	*	1000°C/1382°F	1000°C/1382°F
Diode Check			*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*

Size(HxWxD): 170mm x 79mm x 50mm **Weight:** 366g **Accessories:** Test leads, 9V battery, Type K temperature probe (without 9960) and gift box.

DT-9515/9516/9517/9518B/9519BT/9525

Professional True RMS Digital Multimeters



9515 series Digital Multimeters are compact and simple use for safety and reliable measurements. They are high accuracy and good choose to find and solve problems of the production equipments.

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

Features

- CAT IV 600V safety catagory
- Large OLED display (9519BT)
- Frequency and temperature measurement
- Voltage, Resistance, Continuity, Capacity measurement
- AC/DC current measurement, Max 10A current
- Diode test, data hold, Peak Hold

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www.tuv.com

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (9516/9517/9518B/9519BT)

Features

	9515	9516	9517	9518B	9519BT	9525
LCD display	*	*	*	*	OLED	*
Backlit Controls	*	*	*	*		*
Range mode	Manual	Auto	Auto	Auto	Auto	Auto
ACV+DCV measurements					*	
Digital display counts	6000	6000	6000	6000/60000	6000	6000
Analog Bargraph/segments				*	*	
AC bandwidth (voltage/current)	1kHz	1kHz	1kHz	10kHz	1kHz	1kHz
Auto Power Off	*	*	*	*	*	*
True-RMS measurements	*	*	*	*	*	*
Flexible A 3000A					*	
VFD function		*	*	*	*	
Bluetooth interface					*	
Flexible Current test					*	
Data storage					*	
Insulation Tester						*

Specifications

Function	Max. Range	Basic Accuracy	9515	9516	9517	9518B	9519BT	9525
AC Voltage	1000V	1.0 % ± 5 counts	*	*	*	*	*	*
DC Voltage	1000V	0.5% ± 3 counts	*	*	*	*	*	*
AC Current	10A	2.5% ± 5 counts	*	*	*	*	*	
DC Current	10A	2.0% ± 3 counts	*	*	*	*	*	
Flex A AC	3000A	3.0% ± 3 counts					*	
Resistance	60Meg	2.5% ± 5 counts	*	*	*	*	*	*
Temperature	-20 to 1000℃ -4 to 1832℉	2.5% ± 3℃			*	*	*	
Capacitance	6000uF	2.5% ± 5 counts	*	*	*	*	60mF	100mF
Duty Cycle	1~99%			*	*	*	*	
Frequency	10MHz	1.0% ± 2 counts	*	*	*	*	*	10kHz
Continuity	50Ω		*	*	*	*	*	*
LoZ	600V						*	
Diode Check	MAX 3V		*	*	*	*	*	*
4-20mA%						*	*	

Insulation Specifications (9525)		
50V	0.05MΩ-500MΩ	±(5%+5)
100V	0.1MΩ~1GΩ	±(5%+5)
250V	0.25MΩ~2GΩ	0.25MΩ~500MΩ: ±(3%+5)
500V	0.5MΩ~5GΩ	0.501GΩ~1GΩ: ±(5%+5)
1000V	1MΩ~50GΩ	1.001G~50GΩ: ±(10%+5)

Size(HxWxD): 188mm x 90mm x 45mm **Weight:** 373g
Accessories: Test leads, 1.5Vx3 "AAA" batteries,
Type K temperature probe, 320B option (9518B/9519BT), software and gift box with carrying case.

● Insulation Tester



Model 9525

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 9517



Model 9515



Bluetooth

Model 9519BT



Model 320B

Compact Digital Multimeters







True RMS Compact Digital Multimeter P161

DT-960/960C compact True RMS digital multimeter is the tester for construction sites. The sturdy structure design is capable of resisting every shock and keep working with the very same precision and reliability(3m drop tested). It provides with all of the typical functions of everyday use, but also features an built-in flashlight to illuminate poorly lit environments.
DT-960C features Bluetooth technology to connect a compatible smartphone for remote viewing and sharing, software Meterbox Pro can store and analyze the data.



Compact Digital Multimeters P159

DT-916H auto range multimeter measures AC and DC voltage and current, resistance, capacitance, frequency, duty cycle and temperature. It also tests continuity, diodes and has a built-in non-contact AC voltage detector. DT-912D manual range multimeter measures AC and DC voltage, DC current, resistance, continuity, diodes and batteries. Readings are displayed on a backlit LCD. They are suitable for commercial electrician, electronics technician, and DIY users.



Smart True RMS Multimeter with Automatic Selection P164

DT-946 is a high performance smart digital multimerer with auto selection DC/AC voltage. It provides True RMS readings for more accurate measurements, also check resistance and continuity. It offers a built-in non-contact voltage detection function 50V~600V and a built-in LED flashlight offers convenience in poorly lit environments. The Autohold feature automatically holds the reading on the display when the leads are connected to the circuit being tested.



CATIV 600V Pocket Multimeter with NCV Tester P163

DT-218 CAT IV 600V pocket multimeter with double molded plastic housing and designed with non-contact voltage detection function (VAC: 100V~600V). It measures AC and DC voltage and current, resistance, continuity, capacitance, frequency, duty cycle and diode test. A built-in LED flashlight offers convenience in poorly lit environments.



Pocket Digital Multimeters P173

DT-913B/913T/915T compact digital multimerer with rubber holster housing. It measures AC and DC voltage and current, resistance, continuity and diode test etc. They are all CAT III 600V rated. DT-915T has high contrast 6000 counts LCD display. It offers advanced variable frequency drive filtering to help you accurately analyze non-traditional sine waves and noisy signals.

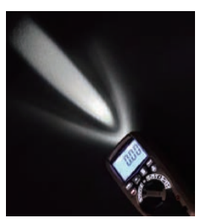
Compact 6000 Counts True RMS Multimeter with Backlight



- Built-in kick stand frees up hands allowing you to work safely and efficiently
- Designed to withstand the rugged environment of a work site and has been drop tested up to 2 meters
- CAT III 600V safety rating

Model 926B





Model 927H/928BT

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 300V

EN 61010-1 CAT III 600V

NCV Non-Contact Voltage Detector | True RMS ACV/ACA | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads | Backlight Backlight | Bluetooth Meterbox Pro

- *Double molded plastic housing*
- *True RMS*

927 compat 600V True RMS 13-function auto-ranging multimeter with built-in NCV and Live detector.

926 is durable and attractive 600V multimeter for the beginning electrician. 7 Measurement functions including AC and DC voltage, DC current, resistance, diode test, battery test, and continuity provide the capability to tackle any basic electrical task.

	GOOD	LOW	BAD
1.5V	＞1.3V	0.95 to 1.3V	＜0.95V
9V	＞7.7V	5.7 to 7.7V	＜5.7V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Features

	926A	926B	926	926H	927A	927	927H	928BT
Digital display counts with backlit	2000	2000	2000	6000	4000	4000	6000	6000
True RMS measurement	*		*	*	*	*	*	*
Range selection	Manual	Manual	Manual	Manual	Auto	Auto	Auto	Auto
MAX/MIN hold				*	*	*	*	*
0.1~99.9% Duty Cycle measurement						*	*	*
Diode & Continuity buzz check	*	*	*	*	*	*	*	*
Auto Power Off	*		*	*	*	*	*	*
Display backlight					*	*	*	*
Data Hold/REL measurement	*	*/-	*	*	*	*	*	*
Fast and accurate capacitance measurement						*		
Non-Contact ACV & ACV Live detection				*	NCV	*	*	*
Backlight for LCD, Knob Switch, Flashlight							*	*
1.5V and 9V battery test	*	*	*	*		*		
Full ranges protection	*	*	*	*	*	*	*	*
Drop tested up to 2 meters	*	*	*	*	*	*	*	*
Square wave signal output							*	*
Low input Impedance (around 3kΩ)							*	*
Bluetooth interface with Meterbox Pro software								*

Specifications

Function	Max Range	Basic Accuracy	926A	926B	926	926H	927A	927	927H	928BT
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*	1000V
Voltage AC	600V	±1.2%	*	*	*	*	*	*	*	1000V
Current DC	10A	±1.5%	*	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*				*	*	*	*
Resistance	2MΩ	±0.8%	*	*	*					
	40MΩ	±3.0%				60MΩ	*	*	60MΩ	60MΩ
Capacitance	100mF	±3.5%				60mF	4mF	*	*	*
Frequency	10MHz	±1.5%					*	*	10KHz	10KHz
Temperature	760ºC/1400ºF	±1.5%					*	*	*	*
Battery test	Test 1.5V and 9V batteries		*	*	*	*		*		
Diode Check			*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*

Size(HxWxD): 151mm x 75mm x 45mm **Weight:** 255g

Accessories: Test leads, 2x1.5V batteries and type K temperature probe (927/927A/927H/928BT), clamshell.

EN 61010-1 CAT III 600V

EN 61010-1 CAT IV 300V



Model 926H



Model 927



Meterbox Pro

Model 928BT

DT-912B/912/912N/914/916/916N/916H/912D

Compact Digital Multimeters



Model 916H

- *Double molded plastic housing*
- *Built-in Non-Contact AC Voltage Detector (912N/916N/916H)*



Features

	912B	912D	912/912N	914	916	916N	916H
Digital display counts	2000	2000	2000	2000	4000	4000	4000
True RMS measurement		*					*
Range selection	Manual	Manual	Manual	Auto	Auto	Auto	Auto
MAX/MIN hold				MAX			*
Auto Power Off		*		*			*
Display backlight		*	*	*	*	*	*
Data Hold		*	*	*	*	*	*
REL measurement		*					*
Fast and accurate capacitance measurement							*
Non-Contact ACV detection			*			*	*
1.5V and 9V battery test		*	912N				
Full ranges protection		*					*

Model 916N



Model 912D

Specifications

Function	Max. Range	Basic Accuracy	912/912N/912B	912D	914	916	916N	916H
Voltage DC	600V	±0.5%	*	*	*	*	*	*
Voltage AC	600V	±1.2%	*	*	*	*	*	*
Current DC	10A	±1.5%	*	*	*	*	*	*
Current AC	10A	±2.0%			*	*	*	*
Resistance	2MΩ	±0.8%	*	*	20MΩ			
	40MΩ	±3.0%				*	*	*
Capacitance	4mF	±3.5%				100μF	100μF	*
Frequency	10MHz	±1.5%				*	*	*
Temperature	760ºC/1400ºF	±1.5%			*	*	*	*
Duty Cycle	9.99%	±1.2%				*	*	
Battery test	Test 1.5V and 9V batteries			*				
Diode Check			*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*

Size(HxWxD): 138mm x 66mm x 38mm **Weight:** 208g

Accessories: Test leads, 9V battery, type K temperature probe (916H) and clamshell.



	GOOD	LOW	BAD
1.5V	>1.3V	0.95 to 1.3V	<0.95V
9V	>7.7V	5.7 to 7.7V	<5.7V



DT-920/920N/920L/921/921N/922/920H/922H/931H/932H

Compact True RMS Digital Multimeters



- *Double molded plastic housing*
- *Built-in Non-Contact AC Voltage Detector (920N/921N/920H/931H/932H)*



Model 920H

Features

	920/920N/920L	921/921N	920H	922	922H	931H	932H
Digital display counts	2000	2000	2000	4000	4000	6000	6000
True RMS measurements					*	*	*
Backlight	920L					*	*
Data Hold/REL measurements	Hold	Hold		Hold	*	Hold	Hold
LoZ low impedance measurement							*
Auto Power Off				*	*	*	*
Fast and accurate capacitance measurement					*	*	*
Auto Ranging		*		*	*	*	*
MAX/MIN Hold		MAX				*	*
Duty Cycle					*		*
Non-Contact ACV detection (NCV)	920N	921N	*			*	*
Motor shaking & LED indicatore for NCV detection						*	
61-segments analog bargraph						*	*
Test 1.5V and 9V batteries			*				
Full ranges protection			*		*	*	*

Specifications

Function	Max Range	Basic Accuracy	920/920N/920L	921/N	920H	922	922H	931H	932H
Voltage DC	600V	±0.5%	*	*	*	*	*	1000V	1000V
Voltage AC	600V	±1.2%	*	*	*	*	*	1000V	1000V
Current DC	10A	±2.5%	*	*	*	*	*	*	*
Current AC	10A	±3.0%		*		*	*	*	*
Resistance	2MΩ	±0.8%	*	20MΩ	*				
	40MΩ	±0.8%				*	*		
	60MΩ	±2.0%						*	*
Capacitance	99.99mF	±3.0%				100μF	4mF	*	*
Frequency	10MHz	±1.5%				*	9.999MHz	*	*
Temperature	760ºC/1400ºF	±1.5%		921N		*	*	*	*
Duty Cycle	99.9%	±1.2%				*	*		*
Diode Check			*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*

Model 922H

Size(HxWxD): 150mm x 70mm x 48mm **Weight:** 255g

Accessories: Test leads, 9V battery, type K temperature probe (921/921N/922/922H/931H/932H) and gift box with carrying case.





Motor shaking & LED indicator for NCV detection



Model 931H



Model 932H

DT-960/960B/960C/960BL/960BT/960BT6/961/962/964/966

True RMS Compact Digital Multimeters



Model 961

- True RMS
- Double molded plastic housing



DT-960/960B/960C/960CP/960BL/960BT/960BT6/961/962/964/966 Series are True RMS compact digital multimeters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They're all CAT III rated for 600V.

Safety Conformance

- EN61010-1 CATIII 600V
- Double molded plastic housing
- Full ranges protection

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Features	960	960B	960BL	960BT	960BT6	961	962	964	966	960C
Digital display counts	4000	4000	2000	4000	6000	4000	4000	6000	6000	6000
Display type(Negativity display)	*	Positive	Positive	Positive	Positive	*	*	*	Positive	Positive
True RMS measurements	*	*	*	*	*	*	*	*	*	*
Safety design	*	*	*	*	*	*	*	*	*	*
Data Hold/ MAX/MIN recording mode	*	*	*	*	*	*	*	*	*	*
Flash light/ Backlight	*	*	*	*	*	*	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*	*	*	*	*	*	*
Type K temperature input						*		*	*	
Bluetooth interface with Meterbox pro software				*	*				*	*
LoZ: low input impedance to prevent ghost voltage							*	*		
EVSE -Current (Sensitivity :Vrms>5V)										



Model 960BL

Specifications	Max Range	Basic Accuracy	960	960B	960BL	960BT	960BT6	961	962	964	966	960C
Function												
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*	*	*	*	*	*
Current DC	10A	±1.0%	*	*	*	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*	*	*	*	*
Resistance	40MΩ	±1.5%	*	*	20MΩ	*	6MΩ	*	*	60MΩ	6MΩ	60MΩ
Capacitance	4000μF	±3.0%	*	*		*	6000μF	*	*	4000μF	6000μF	6000μF
Frequency	10kHz	±1.0%	*	*		*	*	*	*	*	*	*
Temperature	760°C/ 1400°F	±3.0%						*		*	*	
Duty Cycle	99.9%	±1.2%	*	*		*	*	*	*	*	*	*
EVSE -Current (Sensitivity :Vrms>5V)	6 – 80A	±(1.5%+2d)										
Diode Check			*	*	*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*	*	*

Size(HxWxD): 120mm x 67mm x 46mm **Weight:** 200g

Accessories: Test leads, 1.5V AAA x 2 batteries, type K temperature probe (961/962) and clamshell.

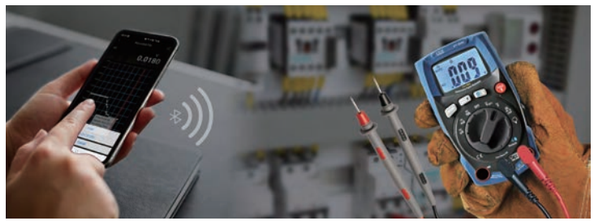


Model 960C

4.0 Bluetooth



Flexible clamp
Model DT-320BS



Meterbox Pro

Available on the App Store

Get it on Google play

DT-896/897/897FC

True RMS Compact Multimeter

Safety Conformance

- EN61010-1 CAT IV 300V, CAT III 600V
- 600V input protection on all ranges

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT IV 300V

Features	896	897	897FC
Large LCD display 4000 counts with flashlight	*	*	*
240 x 320 2.4" TFT color LCD display	*	*	*
0.47" (12mm) Fork clamp sensor for AC/DC 100A current measurement			*
Temperature measurements		*	*
True RMS measurements	*	*	*
A/D convert fast sampling time: 3 Times/sec.	*	*	*
Low pass filter	*	*	*
Peak capture (records transients as fast as 500μs) & Data Hold	*	*	*
Min/Max with Time stamp (records signal fluctuations)	*	*	*
Bluetooth interface	*	*	*

Specifications	Max Range	Basic Accuracy	896	897	897FC
Function					
Voltage DC	600V	±0.5%	*	*	*
Voltage AC	600V	±1.0%	*	*	*
Current DC	10A	±1.5%	*	*	
Fork clamp DC curent	100A	±3.0%			*
Current AC	10A	±2.0%	*	*	
Fork clamp AC current	100A	±3.0%			*
Resistance	40MΩ	±1.0%	*	*	*
Capacitance	4000uF	±3.0%	*	*	*
Frequency	10MHz	±1.0%	*	*	*
Duty Cycle	10.0% to 90.0%	±1.2%	*	*	*
Temperature	760°C/1400°F	±2.5%		*	*
Diode Check & Continuity Test			*	*	*

Size(HxWxD): 148mm x 68mm x 48mm **Weight:** 348g

Accessories:
Test leads, Li-ion batteries, Software, gift box.





Bluetooth

Model 896



Bluetooth

Model 897

Bluetooth





Model 897FC

DT-216/218/218T/219

CATIV 600V Pocket Multimeter with NCV Tester

Safety Conformance

- EN61010-1 CATIV 600V
- 200mA fused protection

- ***Double Molded housing***
- ***CAT IV 600V***
- ***Full range protection***

- ***Non-Contact Voltage Detection***
- ***Flashlight***



Model 218

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

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www.tuv.com

- ***0.39"（10mm）Jaw opening (219)***
- ***100A AC/DC Current measurement (219)***



Model 219

NCV Non-Contact Voltage Detector | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads | Flashlight Flashlight | True RMS ACV/ACA | LoZ

The pocket models 216, 218, 218T and 219 are double molded plastic housing with large high contrast 2000/4000 counts LCD display. They are all CAT IV 600V safety designed plus non-contact voltage detection & flashlight. 219 can measure 100A AC/DC current with 0.39" opening jaw .

216/218/219 Series CATIV Pocket Multimeter has the features to detect most electrical and HVAC problems.

- CAT IV 600V safety rating for industrial applications
- Wide 600V measurement range
- True RMS for precise measurement of non-linear signals(218T/219)
- Resistance and frequency (218/218T/219)
- Large, easy-to-read display
- Backlight for work in dimly lit areas
- Max to record signal fluctuations
- Display hold function (216/218T/219)
- Manual and automatic ranging

Features

	216	218	218T	219
Digital display counts	2000	4000	4000	4000
Safety design	*	*	*	*
True RMS			*	*
Auto Ranging	*	*	*	*
Data Hold	*		*	*
Auto Power Off	*	*	*	*
Flashlight		*	*	*
Backlight	*	*	*	*
Non-Contact Voltage detection	*	*	*	*
Pocket size	*	*	*	*

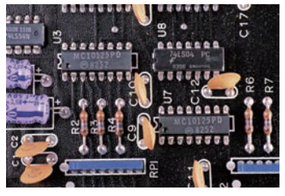
Specifications

Function	Max Range	Basic Accuracy	216	218	218T	219
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*
Current DC	100A	±2.5%	200mA	200mA	200mA	*
Current AC	100A	±3.0%	200mA	200mA	200mA	*
Resistance	20MΩ	±0.8%	*			
	40MΩ	±0.8%		*	*	*
Capacitance	4000uF	±3.0%		100uF	*	*
Frequency	10kHz	±(0.8%±5d)		*	*	*
NCV (VAC: 100V~600V)			*	*	*	*
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 105mm x 60mm x 38mm **Weight:** 145g

Accessories: Test leads, two "AAA" batteries and clamshell with carring case (219).





DT-116/116HV/118/118HV/118B/118B HV/119

3 in 1 e - Testers

The pocket models 116, 118, 119 series are double molded plastic housing with large high contrast 2000/4000 counts LCD display. They are all CAT IV 600V safety designed plus non-contact voltage detection & flashlight.

Safety Conformance

- EN61010-1 CATIII 1000V
- 200mA fused protection (118/118B)

- ***Non-Contact Voltage Detection***
- ***Flashlight***

- ***Double Molded housing***
- ***CAT IV 600V***
- ***Full range protection***

NCV Non-Contact Voltage Detector | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

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www.tuv.com
ID 1419072008

Features

	116/116HV	118/118HV	118B/118B HV	119
Digital display counts	2000	2000	4000	2000
True RMS	-/*	-/*	-/*	
Safety design & Pocket size	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*
Data Hold	*	*		*
Flashlight	*	*	*	*
Non-Contact Voltage detection	*	*	*	*

Specifications

Function	Max. Range	Basic Accuracy	116	118	118B	119
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.2%	*	*	*	*
Current DC	200mA	±2.0%		*	*	
Current AC	200mA	±2.5%		*	*	
Resistance	2MΩ	±0.8%	*			
	20MΩ	±0.8%		*	40MΩ	*
Capacitance	100uF	±(3.0%±5d)			*	
Frequency	100kHz	±(0.8%±5d)			*	
NCV (VAC: 100V~600V)			*	*	*	*
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 120mm x 55mm x 40mm **Weight:** 145g

Accessories: Test leads, two "AAA" batteries and clamshell.





Model 118

DT-946/946B/946F Smart Digital Multimeter with Automatic Selection

946/946B/946F is a high performance smart digital multimeter with automatic selection DC/ACV, providing wide application in HAVC, factories, schools and at home, etc.
All inputs are protected to EN 610101-1 CATIV 600V.

Safety Conformance

- EN61010-1 CATIV 600V
- Double molded plastic housing
- Full ranges protection

- ***Double Molded housing***
- ***CAT IV 600V***
- ***Automatic Selection***

NCV Non-Contact Voltage Detector | True RMS ACV/ACA | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads | Backlight Backlight

- ***IP67 dust and water proof***
- ***Flashlight***

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

Features

	946	946B	946F
0.47" (12mm) Fork clamp sensor for AC 100A current measurement			*
Automatic DCV or ACV selection, Resistance, Continuity	*	*	*
4000 counts LCD display with blacklight & flashlight	*	*	*
Automatic selection ranging	*	*	*
True RMS measurements	*	*	*
IP67 dust and water proof	*	*	*
Non-Contact ACV detection：50V~600V	*	*	*
Auto Hold / Data Hold	*/-	-/*	*/-
Auto Power Off	*	*	*

Specifications

Function	Max. Range	Basic Accuracy	946	946B	946F
Voltage DC	600V	±1.0%	*	*	*
Voltage AC	600V	±1.0%	*	*	*
Current DC	10.00A	±3.5%			*
	100.0A	±3.0%			*
Current AC	10.00A	±3.0%			*
	100.0A	±3.0%			*
Resistance	400kΩ	±2.0%	*	*	*

Size(HxWxD): 150mm x 70mm x 48mm **Weight:** 200g

Accessories: Test leads, 2x1.5V AAA batteries, carrying case and gift box.





Model 946F

DT-9901A/9901

Smart Digital Multimeter



This multimeter is designed to be user-friendly & excellent for anyone who needs to measure voltage, resistance, continuity, diodes, capacitance, or current accurately. With a large & easy-to-read display, this multimeter provides an excellent solution for troubleshooting household, automotive, & industrial electrical issues.
LCD negativity display visible in sunlight.



Model 9901A

- *Bluetooth interface*
- *9999 counts*
- *True RMS*
- *Auto Ranging*



High-brightness flashlight



Anti fall protective cover

Features	9901A	9901
9999 counts LCD display (Negativity display)	*	*
True RMS	*	*
Auto Ranging & Auto Power Off	*	*
Duty Cycle, Diode	*	*
Continuity Buzzer	*	*
Low battery indication	*	*
Non-Contact Voltage detection	*	*
Live Test	*	*
50Hz to 1KHz Bandwidth	*	*
Analogue Bar Graph	*	*
Room temperature display	*	*
Lead alarm and Fuse alarm	*	*
Input Protection	*	*
Bluetooth		*

Specifications

Function	Range	Accuracy
Voltage DC	600V	± (0.5% + 10 digits)
Voltage AC	600V	± (1.0% + 4 digits)
Current DC	10A	± (1.5%+8 digits)
Current AC	10A	± (2.0%+8 digits)
Resistance	99.99MΩ	± (2.0% + 10 digits)
Capacitance	99.99mF	± (5.0% + 5 digits)
Frequency	10MHz	± (1.0% + 5 digits)
Temperature	1000°C/1832°F	± (1.2% + 5°C/9°F)
Duty	0.1%~99.9%	± (1.0% + 5 digits)
Diode Test	Measure diodes within 3.0V	
Continuity Test	if the resistance <50Ω, buzzer alarm	

Size(HxWxD): 78mm x 28mm x 165mm **Weight:** 268g

Accessories: Test leads, Type K temperature probe, 3 x 1.5V AAA Batteries, gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032

EN 61010-1 CAT III 600V

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-910A

Smart Digital Multimeter

Features
9999 counts LCD display (Negativity display)
True RMS
Auto Ranging & Auto Power Off
Duty Cycle, Diode
Continuity Buzzer
Low battery indication
Non-Contact Voltage detection
Live Test
50Hz to 1KHz Bandwidth
Analogue Bar Graph
Room temperature display
Lead alarm and Fuse alarm
Input Protection

- *9999 counts*
- *True RMS*
- *Auto Ranging*

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032

EN 61010-1 CAT III 600V





Model 910A

Specifications

Function	Range	Accuracy
Voltage DC	600V	± (0.5% + 10 digits)
Voltage AC	600V	± (1.0% + 4 digits)
Current DC	10A	± (1.5%+8 digits)
Current AC	10A	± (2.0%+8 digits)
Resistance	99.99MΩ	± (2.0% + 10 digits)
Capacitance	99.99mF	± (5.0% + 5 digits)
Frequency	10MHz	± (1.0% + 5 digits)
Temperature	1000°C/1832°F	± (1.2% + 5°C/9°F)
Duty	0.1%~99.9%	± (1.0% + 5 digits)
Diode Test	Measure diodes within 3.0V	
Continuity Test	if the resistance <50Ω, buzzer alarm	

Size(HxWxD): 66mm x 22mm x 135mm **Weight:** 228g

Accessories: Test leads, Type K temperature probe, 3 x 1.5V AAA Batteries, gift box with carrying case.

DT-920A Pocket Size Digital Multimeter

920A is a high performance smart digital multimeter with automatic selection DCV/ACV, providing wide application in HAVC, factories, schools and at home, etc.
All inputs are protected to EN 610101-1 CATIV 600V.

Features
Automatic DCV or ACV selection, Resistance, Continuity
4000 counts LCD display with blacklight & flashlight
Automatic selection ranging
True RMS measurements
IP67 dust and water proof
Non-Contact ACV detection：50V~600V
Auto Hold / Data Hold
Auto Power Off

- *Double Molded housing*
- *CAT IV 600V*
- *Automatic Selection*

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V





Model 920A

Specifications

Function	Range	Accuracy
Voltage DC	600V	± (0.5% + 10 digits)
Voltage AC	600V	± (1.0% + 4 digits)
Resistance	99.99MΩ	± (2.0% + 10 digits)
Capacitance	99.99mF	± (5.0% + 5 digits)
Frequency	10MHz	± (1.0% + 5 digits)
Temperature	1000°C/1832°F	± (1.2% + 5°C/9°F)
Duty	0.1%~99.9%	± (1.0% + 5 digits)
Diode Test	Measure diodes within 3.0V	
Continuity Test	if the resistance <50Ω, buzzer alarm	

Size(HxWxD): 62mm x 30mm x 127mm **Weight:** 258g

Accessories: Test leads, Type K temperature probe, 3 x 1.5V AAA Batteries, gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-9920S/9920A

True RMS Digital Multimeter with 50MHz Oscilloscope

This handheld oscilloscope adopts a dual injection molding process, featuring a beautiful appearance, compact size, convenient portability, and flexible operation. The functional buttons have a clear and intuitive menu interface. The screen utilizes a 3.5-inch IPS full-view color display, with a multimeter display of up to 25,000 counts. This product integrates the functions of an oscilloscope, signal generator, and multimeter into a three-in-one device. With superior performance and powerful functionality, it can be used in various measurement scenarios, meeting a wide range of user measurement needs.

- *50MHz Simulate bandwidth*
- *Multimeter with Oscilloscope*



Model 9920S

Features

- 3.5-inch IPS full-view color display
- 50MHz Bandwidth 280MS/s Sampling RateSingle/ Dual channel switchable for Clearer Data Comparison
- One-key measuring quickly obtain accurate waveforms
- Lead alert protection
- Type-C charging port, data Transfer

Specifications

Function	Range	Resolution	Accurate
DC Voltage V	2.5000v~1000.0V	0.0001V~0.1V	± (0.05%+3)
	25.000mV~250.00mV	0.001mV~0.01mV	
AC Voltage V	2.5000v~750.0V	0.0001V~0.1V	± (0.5%+3)
	25.000mV~250.00mV	0.001mV~0.01mV	
DC current A	2.5000A~10.000A	0.0001A~0.001A	± (0.5%+3)
	25.000mA~250.00mA	0.001mA~0.01mA	
AC current A	2.5000A~10.000A	0.0001A~0.001A	± (0.8%+3)
	25.000mA~250.00mA	0.001mA~0.01mA	
	AC current frequency response 40Hz~1kHz		
Resistance	0~250.0MΩ	0.012~0.1MΩ	± (1%+3)
Capacitance	0~99.99mF	0.001nF~0.01mF	± (2.0%+5)
Frequency	0~999.9kHz	0.01Hz~0.1kHz	± (0.1%+3)
Diode Test	Measure diodes within 3.0V		
Continuity Test	Buzzer sounds at 50Ω		

Specifications

Wideband	50MHz	Dual Channel
Sample	Sampling Method	Real-time sampling
	Real-time sampling rate	200M/280MSa/s
Switching mode	2	Dual Channel
	Input coupling	DC,AC
	Input Impedance	1MΩ, @16pf
	Probe Attenuation	X1，X10
	Maximum Input Voltage	x1 <150V, x10 <300V (DC+AC peak)
Level	Sample Rate Range	1.5Sa/s-280MSa/s
	Waveform interpolation	(sinx)x
	Sweep speed Range	10ns/div-20s/div
	Time base accuracy	20ppm
	Record Length	Up to 128Kbyte
Perpen-dicular	Sensitivity	20mV/div-10v/div
	Displacement range	4 cells(positive and negative)
	Analogue Broadband	50MHz
	Low Frequency Response	Greater than 10Hz
	Rise Time	Less than 10ns
	DC Gain Accuracy	±3%
Surveying	Automaticmeasurement	Period,frequency,peak-to-peak,max,Min, RMS, Duty Cycle, Number of Pulses
Trig	Trigger mode	Auto, Normal, Single
	Trigger Edge	Rising Edge, Falling Edge
Signal Generatorignal Signal Generator Output	Sine wave, square wave, sawtooth wave, half wave, full wave,	
Operation Mode	Normal mode 200MSa/s, high speed mode 280MSa/s	
Display Mode	YT, XY, Rolling	
Afterglow mode	Minimum, 500ms, 1s, 10s, Unlimited	

Size(HxWxD): 97mm x 68mm x 210mm **Weight:** 268g

Accessories: Mains leads, 3700mAh Li-battery, Earth lead with probe and croc clip, Extension lead adapter gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT II 1000V

- *Automatic range mode*



Model 9920A

DT-9922S

Handheld Dual Channel Oscilloscope

DT-9922S is a cost-effective handheld dual-channel digital phosphor oscilloscope launched with a two-in-one oscilloscope and signal generator. The oscilloscope has a real-time sampling rate of 500MSPS and an analog bandwidth of 180MHz. In terms of display, a high-contrast 2.8-inch lPS full-vision LCD screen and digital fluorescent technology are used. The waveform display effect is good, and the colorways are grayscale and color temperature.
With a waveform refresh rate of up to 50000wfm/s, it is easier to display abnormasignals with low probability.

- *180MHz Simulate bandwidth*
- *500MSPS real-time sampling rate*



Model 9922S

Features

500MSPS real-time sampling rate
180MHz analog bandwidth
Up to 50000wfm/s waveform refresh rate
ZOOM scaling time base
Low to 5mV/grid high sensitivity
Ultra high waveform signal-to-noise ratio
Unique adjustable automatic bandwidth limitation
20M hardware bandwidth limit
Digital triggering technology
Unique adaptive adjustable high-frequency suppression
Dual channel input
Complete triggering function
20M DDS Function Signal Generator
Unique truncated wave output
Large time base rolling mode
X-Y mode display with digital fluorescence
One click automatic adjustment, One click waveform/screenshot saving
Manual cursor measurement
FFT spectrum display
Powerful data browser, USB data export
High voltage anti burn protection, Scheduled automatic shutdown

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-033

EN 61010-1 CAT III 300V

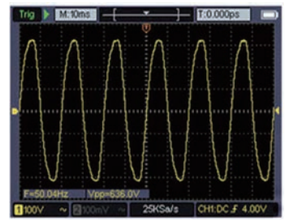
Specifications

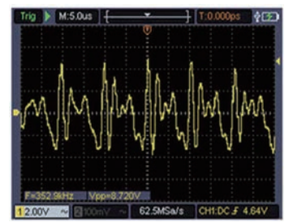
Channel	2	**Screenshot storage**	90 sheets
Simulate bandwidth	180MHz	**Truncated signal**	500 pieces
Maximum sampling rate	500MSPS	**High pressure anti burn**	All gears withstand 400V voltage
Input coupling	DC/AC	**Screen size**	2.8 inches
Rise time	1.8nS	**Screen resolution**	320*240
Storage depth	120Kpts	**Screen display technology**	IPS full view angle
Input impedance	1MQ-18PF	**Expansion interface**	USB transmission interface
Vertical sensitivity	5mV~10V(1X)	**Automatic shutdown**	5 minutes to 2 hours
Time base range	5nS~50S	**Firmware update**	Support. iso image upgrade
DC accuracy	±2%	**Charging requirements**	5V-2A
Time accuracy	+0.01%	**Battery capacity**	3000mah
Trigger architecture	Digital trigger	**Standby time**	Fully charged for 3-4 hours
Trigger mode	Automatic/Single/Regular	**Parameter measurement**	12 types
Trigger edge	Rising edge/falling edge	**Signal generator**	14 standard function signals
Test range	40mV~80V(1X)	**Waveform storage**	250 sets

Size(HxWxD): 97mm x 68mm x 210mm **Weight:** 268g

Accessories: Mains leads, 3700mAh Li-battery, Earth lead with probe and croc clip, Extension lead adapter gift box with carrying case.

Actual waveform display





DT-922A/923S

3 in 1 Dual Channel Flat Panel Oscilloscope Multimeter



Model 923S

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 922A

It is a 3 in 1 dual channel digital oscilloscope launched by CEM, with comprehensive functions and high practicality, targeting the maintenance and research and development industries. This device has three major functions: oscilloscope, multimeter, and signal generator. The oscilloscope adopts FPGA+MCU+ADC hardware architecture, with a sampling rate of 250MS/s, a 50MHz analog bandwidth, a built-in high-voltage protection module, and maximum support for peak voltage measurement of ± 400V; Support waveform screenshot saving and viewing for easy secondary analysis. The function of the multimeter is a 4-digit 19999 point true effective value, supporting AC/DC voltage and current measurement, as well as measurement functions such as capacitance, resistance, diode, on-off, temperature, etc Built in DDS function signal generator, capable of outputting 12 types of function signals, with a maximum output of 10MHz and a step size of 1Hz; The output frequency, amplitude, and duty cycle are adjustable. Equipped with a 4.3-inch 480 * 272 resolution touch screen display, built-in 4000mAh rechargeable lithium battery, and a standby time of up to 4 hours. Providing users with more and stronger practical functions in a compact size, and with good portability.

Specifications

Function	Range	Accuracy	922A	923S
Voltage DC	1.9999V, 19.999V, 199.99V, 1000.0V	±(0.5% + 3)	*	600.0V
Voltage AC	1.9999V, 19.999V, 199.99V, 760.0V	±(1% + 3)	*	600.0V
Current DC	19.999mA, 199.99mA, 1.999A, 9.999A	±(1.2% + 3)	*	*
Current AC	19.999mA, 199.99mA, 1.999A, 9.999A	±(1.5% + 3)	*	*
Temperature	-40ºC to 1000ºC	±(1.0% + 3)	*	*
Resistance	19.999MΩ, 1.9999MΩ, 199.99KΩ, 19.999kΩ	±(1.5% + 3)	*	*
	1.9999KΩ, 199.99Ω	±(0.5% + 3)	*	*
Capacitance	999.9μF, 99.99μF, 9.999μF, 999.9nF, 99.99nF	±(2.0% + 5)	*	*
	9.999mF, 99.99mF	±(5.0% + 20)	*	*
Diode Test	Measure diodes within 3.3V		*	*
Continuity Test	if the resistance <50Ω, buzzer alarm		*	*

Specifications (Oscilloscope)			
Bandwidth	50MHz		*
Channel	2		*
Sample Rate	250MSa/s		*
Time base range	10ns/div - 10s/div		*
Waveform display mode	YT/XY/roll		*
Input impedance	1MΩ		*
Probe attenuation coefficient	1x/10x		*
Trigger type	Rising edge and descending ed		*
Trigger level range	±8 grids		*
Storage space	13M		*
Storage depth	Up to 64kByte		*
Vertical sensitivity	10mV/div - 10V/div		*
Vertical Resolution	8bits		*
Bandwidth limitation	Support 20MHz limit		*
Input Coupling	AC, DC		*
Peak voltage	±400V		*
Trigger mode	Auto, Normal, and Single		*
Measured data	Freq, Period, Peak→Peak , MAX , MIN , RMS, Duty,		*

Specifications	
Different waveform output frequencies	sine wave: 10MHz, Other waveforms: 5MHz
Waveform frequency	0 to 10MHz
Waveform amplitude	0.1V to 3.3V
Square wave duty cycle	0 to 100%

Size(HxWxD): 138mm x 37mm x 98mm **Weight:** 316g

Accessories: Li-Battery, Test leads, Type K temperature probe, USB Cable, gift box with carrying case.

DT-9102S

Dual Channel Oscilloscope Multimeter

Digital Oscilloscope

- Oscilloscope + multimeter + waveform generator, multifunction in one
- 3.5-inch high-resolution, high-contrast color LCD display, suitable for outdoor use
- 18650 lithium battery, comprehensive power consumption ≤5W, can work continuously for about 4 hours
- USB Type-C interface, support power bank, support PC software connection
- Self-calibration function
- SCPI supported, facilitate secondary development

Multimeter:

- Digital Display: 4 ½ digits (maximum displayed number 20000)
- Testing Mode: Voltage, Current, Resistance, Capacitance, Diode , and Continuity test
- Input Impedance: 10MΩ
- Diode: 0-2V
- Frequency response: 40-1000Hz



Model 9102S

Specifications

Bandwidth	100MHz
Channel	2
Sample Rate	250 MSa/s (dual channel), 500 MSa/s (single channel)
Input Coupling	AC, DC, Grounding
Input impedance (DC coupling)	1 M Ω± 2%, parallel with 16pF ± 10 pF
Probe attenuation coefficient	1X, 10X, 100X, 1000X, 10000X
Max. input voltage	400 V (DC+AC peak)
Bandwidth limitation	20 MHz, full bandwidth
Sampling rate range	0.25 Sa/s～250 MSa/s
Waveform interpolation	(Sinx)/x
Scanning speed range (S/div)	5ns/div - 1000s/div, Step by step in the 1-2-5 system
Time base accuracy	±100ppm
Record length	8K or 4K optional
Sensitivity (volts/grid) range	10 mV/div~10 V/div
Displacement range	± 6 grids
Simulate bandwidth	100MHz
Low frequency response (AC coupling, -3dB)	≥10 Hz
Rise time (Typical on BNC)	≤ 3.5 ns
DC gain accuracy	± 3%
Cursor measurement	Voltage difference between cursor (ΔV), time difference between cursor (ΔT)
Automatic measurement	Maximum value, minimum value, average value
Signal source	CH1, CH2
Type	Edge triggered
Catena	DC,AC
Trigger type	Automatic, normal, single time
Trigger level range	± 4 grids from the center of the screen
Trigger level accuracy	± 0.3 grid
Trigger displacement	According to different storage depths and timing settings
Edge trigger/slope	Rising edge, falling edge

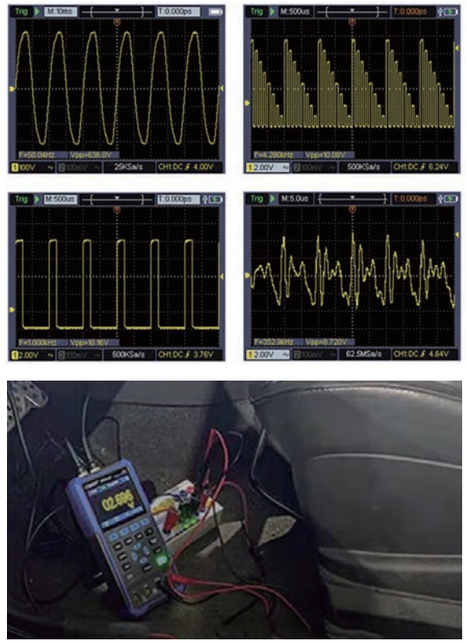
Specifications

Function	Range	Accuracy
Voltage DC	200.00mV, 2.0000V, 20.000V, 200.00V,1000.0V	±(0.3% + 5)
Voltage AC	200.00mV, 2.0000V, 20.000V, 200.00V,750.0V	±(0.8% + 10)
Current DC	10.000A	±(2.5% + 10)
Current AC	200.00mA, 10.000A	±(2.8% + 10)
Resistance	2.0000MΩ, 20.000MΩ, 100.00MΩ,	±(1% + 3)
	200.00KΩ, 20.000KΩ, 2.0000KΩ, 200.00Ω	±(0.8% + 5)
Capacitance	2.0000μF, 20.000μF, 200.00μF, 200.00nF, 20.000nF	±(3.0% + 10)
	2.0000mF	±(3.0% + 10)
Diode Test	Measure diodes within 2V	
Continuity Test	if the resistance <50Ω, buzzer alarm	

Size(HxWxD): 96mm x 38mm x 198mm **Weight:** 302g

Accessories: Main Unit, Carring case, Probe, Power Adapter, Calibration Pen, USB Cable, Multimeter Leads, BNC to Alligator Clip

Actual waveform display



DT-181A/181H/181FC

Smart Digital Multimeter with Automatic Selection



Model 181FC





181A is a high performance smart digital multimeter with automatic selection DC/ ACV, providing wide application in HAVC, factories, schools and at home, etc.
All inputs are protected to EN 610101-1 CATIII 600V

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Features

	181A	181H	181FC
LCD display (Negativity display)	6000 counts	9999 counts	9999 counts
50Hz~1KHz Bandwidth (Hz)	*	*	*
Auto Ranging & Auto Power Off	*	*	*
True RMS, Continuity, Diode	*	*	*
Continuity Buzzer	*	*	*
Low battery indication	*	*	*
Non-Contact Voltage detection (red/yellow/green light indication)	*	*	*
Live Test (red/yellow/green light indication)	*	*	*
CAT III 600V Safety rating, Input Protection	*	*	*

Specifications

Function	Max. Range	181A	181H	181FC
Voltage DC	600V	±0.5%	±(0.5%+10)	±(0.7%+10)
Voltage AC	600V	±1.2%	±(1.0%+5)	±(1.2%+10)
Current DC	10A	±2.0%	±(1.5%+5)	
	100A			±(3.5%+25)
Current AC	10A	±2.5%	±(2.0%+8)	
	100A			±(3.5%+25)
Resistance	60MΩ	±0.8%	±(2.0%+8)	±(2.5%+15)
Capacitance	60mF	±(3.0%±5d)	±(10%reading)	±(5.0%+10)
Frequency	999.9kHz		±(1%+5)	±(1.2%+10)
NCV (VAC: 100V~600V)				
Diode Check				
Continuity Test				

Size(HxWxD): 128mm x 63mm x 37mm **Weight:** 205g
Accessories: Test leads, 2x1.5V "AAA" batteries and gift box with carrying case.

DT-660B/660/660HV/661/661H/662/662VA/663/663H/663T

Compact Digital Multimeters

660/661/662/663/663H/663T Series are compact multimeters with high contrast 2000/4000 counts LCD display. They're all CAT III rated for 600V and provide 0.5% basic DCV accuracy.

Safety Conformance
- EN61010-1 CATIII 600V
- Full ranges protection

0.5% basic DC accuracy

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

SAFETY Double Molded Test Leads

Backlight Backlight



Model 660 Model 661H Model 662VA Model 663T

Color EBTN LCD Display

Features

	660B/660	660HV	661/661H	662/662VA	663	663H	663T
Digital display counts with Backlight	2000	2000	2000	2000	4000	4000	4000
Auto/manual ranging	manual	manual	manual	Auto	Auto	Auto	Auto
True RMS measurements		*	*		*	*	*
Safety design & Holster for option	*	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*	*
Auto Power Off		*	*	*	*	*	*
Type K temperature input						*	*
Larger functions selection knob design			661H				

Specifications

Function	Max Range	Basic Accuracy	660B/660	660HV	661/661H	662/662VA	663	663H	663T
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*	*	*
Current DC	10A	±1.5%	*	*	*	*	*	*	*
Current AC	10A	±2.0%				*	*	*	*
Resistance	2MΩ	±1.0%	*	*					
	20MΩ				*	*			
	40MΩ						*	*	*
Capacitance	4000μF	±3.0%					*	*	*
Frequency	10kHz	±1.0%					*	*	*
Duty Cycle	99.9%	±1.2%					*		*
Temperature	760°C/1400°F	±3.0%						*	*
Diode Check			*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*
9V, 1.5V Battery Test			*	*					

Size(HxWxD): 120mm x 67mm x 46mm **Accessories:** Test leads, 1.5V AAA x 2 batteries, type K temperature probe (663H/663T) and Clamshell, holster (optional).
Weight: 200g

DT-180/181/180A/181B/181VA Pocket Size Digital Multimeters

DOUBLE MOLDED Plastic housing

SAFETY Double Molded Test Leads

Backlight Backlight

Safety Conformance
- EN61010-1 CATIII 600V
- Double molded plastic housing
- Full ranges protection



Model 180



Model 180A

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Features

	180	181	180A	181B	181VA
Digital display counts	4000	4000	6000	6000	6000 Negativity display
CATIII 600V Safety rating	*	*	*	*	*
Data Hold	*	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*	*
REL	*	*			
Non-Contact 90-600VAC detection	*	*	*	*	*
Live test			*	*	*
LCD display with backlight	*	*	*	*	*
True RMS measurements	*	*	*	*	*
Temperature measurement		*		*	*

Specifications

Function	Max Range	Basic Accuracy	180	181	180A	181B/181VA
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*
Current DC	600mA	±1.0%			*	*
Current AC	600mA	±1.5%			*	*
Resistance	60MΩ	±0.8%			*	*
	40MΩ	±1.2%	*	*		
Capacitance	99.99mF	±3.0%	4mF	4mF	*	*
Temperature	760°C/1400°F	±3.0%		*		*
Frequency	100kHz	±1.2%	*	*	*	*
Duty Cycle	9.99%	±1.2%			*	*
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 128mm x 63mm x 37mm **Weight:** 205g
Accessories: Test leads, 2x1.5V "AAA" batteries, type K temperature probe (181/181B) and gift box with carrying case.

DT-913/913B/913H/913T/915/915T
Compact Digital Multimeters



Model 913B



Model 913T



Model 915T



DT-913/913B/913T/915/915T series are compact meters with rubber holster housing and over sized high contrast 6000 counts LCD display (915/915T). They're all CAT III rated for 600V.

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (915/915T)

- *EN61010-1 CATIII 600V*
- *True RMS (913/913T/915/915T)*
- *6000 counts LCD display (915/915T)*

Safety Conformance
EN61010-1 CATIII 600V
Single molded plastic housing with holster
Full ranges protection

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

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Features

	913B	913	913H	913T	915	915T
Range	Manual	Auto	Auto	Auto	Auto	Auto
LCD display	*	*	*	*	*	*
Backlight		*	*	*	*	*
Digital display counts	2000	4000	4000	4000	6000	6000
True RMS		*	*	*	*	*
Data Hold	*	*	*	*	*	*
Auto Power Off		*	*	*	*	*
Low battery indication	*	*	*	*	*	*
VFD					*	*

Specifications

Function	Max. Range	Basic Accuracy	913B	913	913H	913T	915	915T
AC Voltage	600V	1.0 % ± 5 counts	*	*	*	*	*	*
DC Voltage	600V	0.5% ± 3 counts	*	*	*	*	*	*
AC Current	10A	2.5% ± 5 counts		*	*	*	*	*
DC Current	10A	2.0% ± 3 counts	*	*	*	*	*	*
Resistance	60MΩ	2.5% ± 5 counts	2MΩ	40MΩ	40MΩ	40MΩ	*	*
Temperature	-20 to 800℃ -4 to 1472℉	2.5% ± 3℃			*	*		*
Capacitance	40mF	2.5% ± 5 counts		*	4mF	*	60mF	60mF
Duty Cycle	1~99%			*		*	*	*
Frequency	10MHz	1.0% ± 2 counts		*	*	*	*	*
Continuity	50Ω		30Ω	*	*	*	*	*
Diode Check	MAX 3V		1.5V	*	2.0V	*	*	*

Size(HxWxD): 144mm x 72mm x 38mm
Weight: 214g
Accessories:
Test leads, 2 x 1.5V "AAA" batteries, type K temperature probe (913T/915T) and gift box with carrying case.







DT-211/211B/212/212T/212H/213/215
Pocket Digital Multimeters



Low pass filter for accurate measurement of variable frequency drive (VFD) signals (213/215)

Features

	211	211B	212	212H	212T	213	215
Range Model	Auto	Manual	Auto	Auto	Auto	Auto	Auto
LCD display	*	*	*	*	*	*	*
Backlight Controls	*	*	*	*	*	*	*
Digital display counts	2000	2000	4000	4000	4000	6000	6000
True RMS			*	*	*	*	*
Auto Power Off	*		*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*
VFD						*	*

Specifications

Function	Max. Range	Basic Accuracy	211	211B	212	212H	212T	213	215
AC Voltage	600V	1.0 % ± 5 counts	*	*	*	*	*	*	*
DC Voltage	600V	0.5% ± 3 counts	*	*	*	*	*	*	*
AC Current	600mA	2.5% ± 5 counts	200mA		400mA	400mA	400mA	*	*
DC Current	600mA	2.0% ± 3 counts	200mA	200mA	400mA	400mA	400mA	*	*
Resistance	60MΩ	2.5% ± 5 counts	20MΩ	2MΩ	40MΩ	40MΩ	40MΩ	*	*
Temperature	-20 to 800°C -4 to 1472°F	2.5% ± 3°C				*	*		*
Capacitance	60mF	2.5% ± 5 counts			4000uF	4000uF	4000uF	*	*
Duty Cycle	1~99%				*		*	*	*
Frequency	10kHz	1.0% ± 2 counts			*	*	*	*	*
Continuity	50Ω		30Ω	30Ω	*	*	*	*	*
Diode Check	MAX 3V		1.5V	1.5V	*	2.0V	*	*	*

Size(HxWxD): 132mm x 65mm x 35mm **Weight:** 205g
Accessories: Test leads, 2 x 1.5V "AAA" batteries, type K temperature probe (212H/212T/215) and gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 215



Model 211







DT-923B/928 Compact Digital Multimeters

Features

	923B	928
Digital display counts	2000	4000
CATIII 600V Safety rating	*	*
Data Hold	*	*
Auto Ranging, Auto Power Off		*
MAX /MIN Hold & REL		*
Non-Contact ACV detection		*
LCD display with backlight & flashlight		*
True RMS measurements		*
Low pass filter for accurate measurement of Variable frequency drive (VFD) signals		*

Specifications

Function	Max Range	Basic Accuracy	923B	928
Voltage DC	600V	±0.5%	*	*
Voltage AC	600V	±1.2%	*	*
Current DC	10A	±2.0%	*	*
Current AC	10A	±2.5%		*
Resistance	2MΩ	±0.8%	*	
	40MΩ	±2.5%		*
Capacitance	40mF	±3.0%		*
Frequency	10MHz	±1.2%		*
Temperature	760°C/1400°F	±2.5%		*
Duty Cycle	9.99%	±1.2%		*
Diode Check			*	*
Continuity Test			*	*

Size(HxWxD): 146mm x 73mm x 45mm **Weight:** 237g
Accessories: Test leads, 2x1.5V "AAA" batteries, type K temperature probe (928) and gift box with carrying case.

923B/928 Series are compact multimeters with double molded plastic housing and over sized high contrast 2000/4000 counts LCD display. They're all CAT III rated for 600V and have auto-ranging function and provide 0.5% basic DCV accuracy.

- *0.5% basic DC accuracy*
- *Double molded plastic housing*
- *Built-in Non-Contact AC Voltage Detector (928)*

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 923B



Model 928



DT-8908/8908H/8908C/8908D/8908E/8909A/8909D/8909/8909E/8909H

Professional 6000 Counts True RMS Digital Multimeters



Model 8908D

Double molded

Large LCD display

8908 Series is an innovative and reliable portable $3^5/_6$ digital multimeter with powerful measuring functions, including AC voltage and AC current True RMS sine wave measurement functions. It can measure up to 1000V AC/DC voltage, 20A AC/DC current, resistance, capacitance, frequency, diode, hFE, continuity and NCV, quickly and accurately distinguish neutral wire from strip wire. Temperature can also be measured and neutral and live wires and test leads detected. Equipped with sound and light alarm, torch, automatic backlight and other functions, can be used in a dark environment. It attracts users with its two-color durable case, modern appearance and versatility

Safety Conformance

- EN61010-1 CAT III 600V, CAT II 1000V
- 1000V input protection on all ranges
- 20A/250V & 0.63A/250V(8908C,8908D, 8909D, 8909) fuses protection on current ranges
- 20A/250V & 0.5A/250V(8908, 8909A) fuses protection on current ranges
- 10A/600V&600mA/600V (8908E,8909E,8909H) fuses protection on current ranges, 6.3mm*32mm



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT II 1000V

Model 8909H



Automatic backlight



Flashlight



hFE triode measurement function



LED check

Features

	8908H/ 8908E	8909H	8908	8908C	8908D	8909A	8909D	8909E
6000 counts display with LCD backlight	4000/ 6000	*	4000	*	*	4000	*	*
Auto Ranging		*				*	*	*
True-RMS measurements	*	*	*	*	*	*	*	*
Large capacitance range 100mF, fast measurement	4mF/ 100mF	*	4mF	*	*	4mF	*	*
Accurate measurement of 1000V voltage, 20A current measurement	600V/ 10A	600V/ 10A	*	*	*	*	*	600V/ 10A
Dual range NCV test which quickly identifies neutral and live wires	*	*	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*
Flashlight and Auto backlight	*	*	*	*	*	*	*	*
hFE triode measurement function, can be on the transistor current amplification times detection;			*	*	*	*	*	
Low battery indication	*	*	*	*	*	*	*	*
AC voltage frequency response (45~1000Hz)	*	*	*	*	*	*	*	*
Sampling rate 3 times/s	*	*	*	*	*	*	*	*
Double injection molding	*	*	*	*	*	*	*	*
LED check				*				
Analogue Bar Graph		*						

Specifications

Function	Max. Range	Basic Accuracy	8908/ 8908H	8908C	8908D	8909A	8909D	8908E/ 8909E/ 8909H
AC Voltage	6V/60V/600V/1000V	±(1.0 % ± 5)		*	*		*	600V
	4V/40V/400V/1000V	±(1.0 % ± 5)	*			*		
DC Voltage	600mV/6V/60V/600V/1000V	±(0.5% ± 3)		*	*		*	600V
	400mV/4V/40V/400V/1000V	±(0.5% ± 3)	*			*		
AC Current	60mA/600mA/20A	±(2.5% ± 5)		*	*		*	10A
	4mA/40mA/400mA/20A	±(2.5% ± 5)	*			*		
DC Current	60μA/6mA/60mA/600mA/20A	±(2.0% ± 3)		*	*		*	10A
	4mA/40mA/400mA/20A	±(2.0% ± 3)	*			*		
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(2.5% ± 5)		*	*		*	*
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(2.5% ± 5)	*			*		
Temperature	-20 to 1000℃/-4 to 1832℉	±(2.5% ± 3℃)	*		*	*	*	*
Capacitance	60nF/600nF/6μF/60μF/600μF/6mF/ 60mF/100mF	±(2.5% ± 5)		*	*		*	*
	40nF/400nF/4μF/40μF/400μF/4mF	±(2.5% ± 5)	*			*		
Duty Cycle	1~99%				*		*	*
Frequency	9.999Hz/9.999MHz	±(1.0% ± 2)	*	*	*	*	*	*

Size(HxWxD): 188mm x 88mm x 56mm **Weight:** 420g

Accessories: Test leads, 1.5Vx3 "AAA" batteries, Type K temperature probe, gift box with carrying case.

DT-9905H/9908H

High Performance, High Accuracy Digital Multimeters

- 4000 counts display with LCD backlight
- Data Hold
- Diode check & continuity test
- True RMS

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Specifications

Function	Max. Range	Basic Accuracy	9905H	9908H
Voltage DC	1000 V	±0.5%	*	*
Voltage AC	700V	±1.2%	*	*
Current DC	20A	±2.5%	*	*
Current AC	20A	±3.0%	*	*
Resistance	40MΩ	±2.5%	200MΩ	*
Temperature	760°C/1400°F	±3.0%		*
Frequency	10MHz	±1.5%		*
Capacitance	400uF	±3.0%	*	*
Diode Check			*	*
Continuity Test			*	*

Size(HxWxD): 182mm x 82mm x 55mm
Weight: 360g
Accessories: Test leads, 9V battery, Type K temperature probe (9908H) and gift box with carrying case.





Model 9905H



Model 9908H

DT-2005B/2008/2008H/2209/2006 3 1/2 Digital Multimeters

2005B/2008/2008H/2009/2006 have double molded plastic housing and oversized high contrast 2000/4000/6000 counts LCD display with backlight.

Safety Conformance

- EN61010-1 CAT III 600V, CAT II 1000V
- Full ranges protection

Features

Function	Max Range	Basic Accuracy	2005B	2008	2008H	2009	2009H	2006
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*	*	*
Voltage AC	700V	±(1.0%+3d)	*	*	*	*	*	*
Current DC	20A	±(1.5%+3d)	*	*	*	*	*	*
Current AC	20A	±(2.0%+3d)	*	*	*	*	*	*
Resistance	20MΩ	±(1.2%+2d)	*	*	40MΩ	40MΩ	40MΩ	60MΩ
Capacitance	200uF	±(4.0%+3d)	*	*	400uF	100uF	99.99mF	6000uF
Frequency	20kHz	±(1.5%+5d)		*	9,999MHz	9,999MHz	9,999MHz	9,999MHz
Temperature	760°C/1400°F	±(3.0%+3d)		*	*	*	*	*
Diode Check	Open Voltage 2.8V dc		*	*	*	*	*	*
Continuity Test	Threshold 30Ω		*	*	50Ω	*	50Ω	*

Size(HxWxD): 195mm x 92mm x 38mm **Weight:** 380g

Accessories : Test Leads, Type K temperature probe (2008, 2009 & 2006), 9V battery, gift box and carrying case.





EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Double molded
Ture RMS (2008H/2009H)

Large LCD display



Model 2005B



Model 2008

DMP-30/31/32/33 Pocket DMMs

33: 6000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity, Diode test with Data Hold, Relative and MAX/MIN functions.

30/32: 4000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity, Diode test with Data Hold and Relative functions.

31: 2000 counts, 5 functions with Data Hold , Max Hold and Auto Power Off.

● *200mA resetable fuse protection (32/33)*





EN 61010-1 CAT II 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Size(HxWxD): 115mm x 60mm x 16mm
Weight: 82g
Accessories:
Test leads, Wallet style case and one CR 2032 button battery.

Specifications

Function	Max Range	Basic Accuracy	30	31	32	33
Voltage DC	600V	±(1.0%±2d)	*	*	*	*
Voltage AC	600V	±(1.5%±5d)	*	*	*	*
Resistance	20MΩ	±(1.0%±2d)		*		
	40MΩ	±(1.0%±2d)	*		*	
	60MΩ	±(1.0%±2d)				*
Capacitance	100μF	±(3.0%±5d)	*		*	
	1000μF	±(3.0%±5d)				*
Frequency	9.999MHz	±(0.8%±5d)	*		*	*
Current DC	200mA	±(1.5%±2d)			*	*
Current AC	200mA	±(2.5%±5d)			*	*
Continuity	Audible threshold < 50Ω		*	*	*	*
Diode test	Test Current 0.6mA		*	*	*	*

DT-10/12/12T/16/16A Pocket Digital Multimeters

NCV Non-Contact Voltage Detector

6000 High Resolution

10: 4000 counts, 8 functions including DCV, ACV, DCA, ACA, Resistance, Continuity, Diode test with Data Hold, Low impedance and non-contact ACV detection.

16/16A: 6000 counts with Min/Max, Data hold and non-contact ACV detection.

- Non-Contact Voltage detection identifies live circuits (16/16A)
- Large high contrast 4000 counts LCD display with Analog bargraph (10)
- Large high contrast 6000 counts LCD display with Analog bargraph (16/16A)
- Auto Power off
- Relative, and Data Hold
- Built-in storage compartment for integrated test leads
- Over-range and low battery indication
- AC True RMS (12T)



Model 16



Model 12

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT II 600V

Specifications

Function	Max Range	Basic Accuracy	10	12	12T	16	16A
Voltage DC	600V	±(1.3%±2d)	*	*	*	*	*
Voltage AC	600V	±(2.3%±5d)	*	*	*	*	*
Resistance	40MΩ	±(2.0%±2d)	*	*	*	*	*
	60MΩ	±(1.0%±2d)				*	*
Capacitance	99.99mF	±(3.0%±5d)			*		
Continuity	Audible threshold < 50Ω		*	*	*	*	*
Diode test	Test Current 0.6mA		*	*	3V		*
Frequency	9.999MHz	±(0.8%±5d)					*
Current DC	200mA	±(1.5%±2d)	*	100.0A	100.0A	*	
	4000μA/6000μA	±(2.5%±5d)	*			*	
Current AC	200mA	±(2.5%±5d)	*	100.0A	100.0A	*	
	4000μA/6000μA	±(2.5%±5d)	*			*	

Size(HxWxD): 126mm x 59mm x 32mm **Weight:** 124g

Accessories: Test leads, Wallet style case and one 1.5V L44 button battery, 1.5V x 3 AAA (12/12T).

● *200mA resetable fuse protection (10/16)*



Rubber Protection



Oversized high contrast 4000/6000 counts LCD Display





Built-in Non-Contact Voltage Detector automatically detects a live wire when the red LED is lit

DT-101/102/103/103B/105/107/108 Pocket DMMs

101/102 Series Pocket Digital Multimeters provide multifunction.

● *Double molded housing*

Features

	103B	101/103	102/105	107	108
2000 Counts digital display	*	*	*	*	*
Safety design CAT II 600V/ CATIII 300V	*	-/*	-/*	*	*
Double molded housing	*	-/*	-/*	*	*
Non-contact ACV detection		-/*	-/*	*	*
Data Hold		-/*	-/*	*	*
Auto Ranging				*	*
Auto Power Off				*	*
Type K temperature input					*

Specifications

Function	Max Range	Basic Accuracy	101/103/103B	102/105	107	108
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.8%	*	*	*	*
Current DC	200mA	±1.0%	*	*	*	*
Resistance	2MΩ	±0.8%	*	*	20MΩ	20MΩ
Temperature	760°C/1400°F	±3.0%				*
Diode Check			*	*	*	*
Continuity Test				*	*	*

Size(HxWxD): 101/102: 100mm x 48mm x 26mm
103/105/107/108: 108mm x 53mm x 32mm
Weight: 102g
Accessories:
Clamshell,Test leads and 12V battery.



Model 103



Model 103B



Model 107

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT II 600V

DT-111/112/113 Pocket DMMs

111/113: 4000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity and Diode test with Data Hold and Relative functions.

112: 2000 counts, 5 functions with Data Hold , Max Hold and Auto Power Off.

Specifications

Function	Max Range	Basic Accuracy	111	112	113
Voltage DC	500V	±(1.3%±2d)	*	*	*
Voltage AC	500V	±(2.3%±5d)	*	*	*
Resistance	20MΩ	±(2.0%±2d)		*	
	40MΩ	±(1.0%±2d)	*		*
Continuity	Audible threshold < 50Ω		*	*	*
Diode test	Test Current 0.6mA		*	*	*
Capacitance	200μF	±(3.0%±5d)	*		*
Frequency	9.999MHz	±(0.8%±5d)	*		*
Current DC	400mA	±(1.5%±2d)			*
Current AC	400mA	±(2.5%±5d)			*

Size(HxWxD): 113mm x 61mm x 13mm
Weight: 90g



Model 111



Model 112





Accessories:
111/112/113: Test leads, Wallet style case and one CR 2032 button battery.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 300V

R-100
Resistance Decade Boxes



Model R-100

EMC
EN: 61326



Features
Wide range Decade boxes for product design or calibration check
Heavy duty durable construction
Seperate grounding terminal
Three binding posts permit isolated substitutions
1% Resistance substitution from 1 to 11,111,110½
Seven Decade Ranges of Resistance
Values can be changed in 1½ increments
0.3W resistors
0.3½ internal zero resistance

Size(HxWxD): 140mm x 130mm x 48mm
Weight: 190g
Accessories: Clamshell

C-100 Capacitance Testing Box



Model C-100

Features

- Provide precise and reliable capacitance values
- Mini and compact design, easy to carry and on-site testing
- Adopting sliding switch design, the value can be increased or decreased by the switch
- Capacitance measurement range: 100pf~11.11uF

EMC
EN: 61326

This is a portable, easy to carry, high-precision, and adjustable capacitance testing box that can be applied in the following scenarios: troubleshooting and maintenance, education and vocational training, production line testing, research design and development, physics laboratory work, etc.

Specifications	
Range	100pf~11.111uF
Accuracy	5%
Voltage limit	50V DC
Operating temperature	0°C~50°C (32°F~122°F)
Operating humidity	below 80%

Size(HxWxD): 140mm x 130mm x 48mm **Accessories:** Clamshell.
Weight: 160g

L-100 Inductance Testing Box



Model L-100

Features

- Provide accurate and reliable inductance values
- Mini and compact design, easy to carry and on-site testing
- Adopting sliding switch design, the value can be increased or decreased by the switch
- Inductance value measurement range: 10uH~111.1mH (10uH step)



EMC
EN: 61326

This is a portable, easy to carry, high-precision, and adjustable inductance testing box that can be applied in the following scenarios: troubleshooting and maintenance, education and vocational training, production line testing, research design and development, physics laboratory work, etc.

Specifications	
Range	10uH~111.1mH
Accuracy	5% @ 23 ± 5°C @ 1kHz
Maximum current ratio	10mA DC or AC
Operating temperature	0°C~50°C (32°F~122°F)
Operating humidity	below 80%

Accessories: Clamshell.
Size(HxWxD): 140mm x 130mm x 48mm
Weight: 160g

DT-155 Intelligent Semiconductor Analyzer

Model 155



EMC
EN: 61326

The intelligent semiconductor Component analyzer offers great features together with refreshing simplicity.

Features
Automatic component type identification
Automatic pinout identification, just connect any way round.
Special feature identification such as diode protection and resistor shunts.
Gain measurement for bipolar transistors.
Leakage current measurement for bipolar transistors.
Silicon and Germanium detection for bipolar transistors.
Gate threshold measurement for Enhancement Mode MOSFETs.
Semiconductor forward voltage measurement for diodes.
LEDs and transistor Base-Emitter junctions.
Automatic and manual power-off.

Size(HxWxD): 102mm x 56mm x 24mm **Weight:** 91g
Accessories: Two “AAA” batteries and clamshell

DT-203B
Battery Tester

$3^{1}/_{2}$ LCD display, pocket size and easy to use, wide measuring range for 9 kinds of battery such as button cell, AA, AAA, 9V etc, distinguishing the battery in good quality or not by setting different load resistance, the unit has no battery but powered by tested battery

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Specifications		
Battery Type	Load Current	Minimum Voltage for Good Indication
Button cell 1.5V	1mA	1.125V+/-0.09V
AAA-N-1.5V	50mA	1.125V+/-0.09V
AA-C-D-1.5V	150mA	1.125V+/-0.09V
Lithium 3V	100mA	2.25V+/-0.18V
6V	10mA	4.50V+/-0.36V
9V	10mA	6.75V+/-0.54V
12V	10mA	9.00V+/-0.72V
15V	10mA	11.25V+/-0.90V
22.5V	10mA	16.875V+/-1.35V

Size(HxWxD): 60mm x 116mm x 29mm **Weight:** 115g
Accessories: Clamshell







Model 203B

SMD-100 Smart Electronic Components Tester

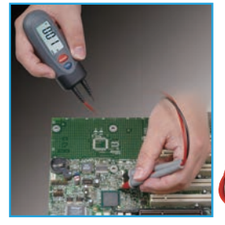
SMD-100 has a changeable head for automatic scan check DC/AC Voltage, components (resistance, capacitance, diode and continuity) and circuit fault.

All inputs are protected according to EN 610101-1 CATIII 600V.

Features
Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and diode range
6000 counts LCD display
Auto scan DC/AC Voltage, resistance, capacitance, diode and continuity
Data Hold/MAX/MIN recording mode
Wide capacitance range, Auto Power Off
Diode Check & Continuity Test

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V





Specifications		
Function	Range	Basic Accuracy
Voltage DC	600mV/6V/60V/600V	±0.8%
Voltage AC	600mV/6V/60V/600V	±1.0%
Resistance	600/60k/60k/600k/6M/60M	±1.0%
Capacitance	6n/60n/600n/6μ/60μ/600μ/6m/60m	±3.5%
Diode check	Open voltage 2.8Vdc, test current 1mA.	
Continuity test	Threshold 35 Ω	

Size(HxWxD): 184mm x 37mm x 23mm **Weight:** 76g
Accessories: Two LR44(1.5V) button batteries and clamshell

DT-3218/3260/3280H Pen-type Digital Multimeters



Model 3218

- 7 functions Pen-type Digital Multimeters
- Large 3-3/4 digital LCD display with Bargraph
- Full function indication
- Diode and audible continuity

Specifications					
Function	Max range	Basic accuracy	3218	3260	3280H
Voltage DC	600V	±0.8%	*	*	*
Voltage AC	600V	±1.2%	*	*	*
Current DC		±1.5%	340mA	400mA	600mA
Current AC		±2.0%	340mA	400mA	600mA
Resistance	40MΩ	±3.0%	30MΩ	±1.0%	60MΩ
Capacitance	40mF	±3.5%		*	60mF
Non-contact voltage: 50-600V					*
Continuity: <35Ω					
Diode test: Test voltage max. 3.4V					

Size(HxWxD): 220mm x 40mm x 33mm **Weight:** 215g
Accessories: Clamshell and button battery





Model 3280B

DT-936
Smart Digital Multimeter with Automatic Selection



Model 936

936 is a high performance smart digital multimeter with automatic selection DC/ACV, providing wide application in HAVC field, factories, schools and at home, etc.

All inputs are protected to EN 610101-1 CATIII 600V/ CATII 1000V.

- ***Double Molded housing***
- ***CAT III 600V***
- ***Automatic Selection***

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

Features

Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and Diode selection
6000 counts LCD display
Auto/manual ranging
Data Hold/MAX/MIN recording mode
Auto Power Off
Wide capacitance range, diode check & continuity test

Specifications

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.0%
Resistance	40MΩ	±1.0%
Duty Cycle	99.9%	±1.2%
Frequency	10MHz	±1.0%
Capacitance	40mF	±3.5%

Size(HxWxD): 150mm x 70mm x 48mm **Weight:** 255g
Accessories: Test leads, 9V battery, gift box.

DT-940/941 Compact Digital Multimeters

4000 counts High Resolution · Double Molded Plastic housing · Safety Double Molded Test Leads · Backlight Backlight



Model 940



Model 941

940 Series are compact multimeters with double molded plastic housing and high contrast 4000 counts LCD display. They are all CAT III rated for 1000V.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- Double molded plastic housing
- 1000V input protection on all ranges
- 10A/600V fuse input protection on current ranges

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032, EN 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Features

	940	941
Digital display counts	4000	4000
Data Hold & display blacklight	*	*
Auto Ranging & Auto Power Off	*	*
Type K temperature input		*

Specifications

Function	Max Range	Basic Accuracy	940	941
Voltage DC	600V	±0.5%	*	*
Voltage AC	600V	±1.2%	*	*
Current DC	10A	±2.5%	*	*
Current AC	10A	±3.0%	*	*
Resistance	40MΩ	±0.8%	*	*
Capacitance	100μF	±3.0%	*	*
Frequency	10MHz	±1.5%	*	*
Temperature	760°C/1400°F	±3.0%		*
Duty Cycle	9.99%	±1.2%	*	*
Diode Check & Continuity Test			*	*

Size(HxWxD): 150mm x 70mm x 48mm **Weight:** 255g
Accessories: Test leads, 9V battery, Temperature Probe (941), carrying case and gift box.

DT-925 Voltage & Current Calibrator / DMM with Voltage & Current Calibrator

Model 925



EN 61010-1 CAT IV 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

925 Voltage/Current calibrator is a portable instrument for calibrating process devices and measuring process signals. It brings you into the field of precision measurement.

- Adjustable 0-24mA current source.
- Adjustable -199.9mV to +199.9mV DCA source.
- Current calibrator drives loads up to 500 ohms.
- The instrument measures a two-wire current loop.

Specifications (standard source)

Function	Range	Display Resolution	Accuracy
Current source	0-19.99mA	0.01mA	±(0.25%FS+1d)
	0-24mA	0.1mA	±(0.5%FS+1d)
DC mV source	-199.9mV to +199.9mV	0.1mV	±(0.25%FS+1d)

Specifications (measurement)

Range	0-19.99mA	0.01mA	±(0.25%FS+1d)
	0-24mA	0.1mA	±(0.5%FS+1d)

Size(HxWxD): 150mm x 70mm x 48mm **Accessories:**
Weight: 236g
Test leads, 9V battery and gift box with carrying case.

DT-9930/9931
11,000 Counts LCR Meters

IP67 Waterproof · 11000 counts High Resolution · Double Molded Plastic housing · Backlight Backlight

9930 is 11,000 Counts LCR Meter
9931 is 11,000 Counts digital multimeter with LCR function

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V (9931)
- Full ranges protection

IP67 dust and water proof

Double molded plastic housing



Model 9930

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V



Model 9931



Features

	9930	9931
Digital display counts	11,000	11,000
Data Hold & Auto Ranging	*	*
MAX/MIN recording mode	*	*
Auto Power Off	*	*
DMM + LCR		*

Specifications (Multimeter)

Function	Max Range	Basic Accuracy	9930	9931
Voltage DC	1000V	±0.5%		*
Voltage AC	1000V	±0.8%		*
Current DC	1.1A	±1.2%		*
Current AC	1.1A	±1.8%		*
Frequency	10MHz	±1.5%		*
Duty Cycle	9.99%	±1.2%		*
Diode Check			*	*
Continuity Test			*	*

Specifications (LCR)

Function	Max.Range	Max.Resolution	Basic Accuracy
Resistance	110.00MΩ	0.01Ω	±1.2% of rdg ±5 digits
Capacitance	110.00uF	1pF	±3.0% of rdg ±30 digits
Inductance	20H	1uH	±(2%+5)

Size(HxWxD): 182mm x 82mm x 55mm **Weight:** 360g
Accessories: Test leads and 9V battery, gift box with carrying case.

DT-9935 Professional LCR Meter

9935 LCR Meter features with innovative automatic selection technology, automatically measuring L,C and R with Q, D and θ by just turn on the meter.The testing frequency is up to 10kHz and it can output up to 100kHz test frequency. It provides high accuracy with four or five terminal Kelvin measurements.

- Overload Indication
- Lower Battery Indication
- Auto Power Off

Double molded plastic housing



Model 9935

Specifications

Inductance	
Ranges	20uH-2000H
Resolution	0.001uH
Basic Accuracy	±(0.2+5d)
Capacitance	
Ranges	20pF-20mF
Resolution	0.001pF
Basic Accuracy	±(0.2+3d)
Resistance	
Ranges	20Ω-2000MΩ
Resolution	0.001Ω
Basic Accuracy	±(0.2+2d)
DC Resistance	
Ranges	20Ω-2000MΩ
Resolution	0.001Ω
Basic Accuracy	±(0.2+2d)
Q (quality)	
Ranges	0.000-999
Resolution	0.001
D (dissipation)	
Ranges	0.000-999
Resolution	0.001
Theta	
Ranges	±90 degree
Resolution	1 degree



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Size(HxWxD): 220mm x 96mm x 60mm
Weight: 360g
Accessories:
Test leads and 6 x 1.5V “AA” batteries, gift box with carrying case.

LCR-30
Multifunctional LCR Meter



Model LCR-30



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

LCR-30 is a multifunctional and portable test instrument that supports precise measurements of inductance, capacitance, resistance, and diodes.

Specifications

Function	Range	100Hz	1KHz	10KHz
Inductance	1H-10H	5%±3d	5%±3d	
	1mH-1H	2%±3d	2%±3d	2%±3d
	10uH-1mH	2%±3d	0.5%±3d	0.5%±3d
	1uH-10uH			2%±3d
Capacitance	1mF-22mF	5%±3d	5%±3d	
	1uF-1mF	2%±3d	2%±3d	2%±3d
	1nF-1uF	2%±3d	0.5%±3d	0.5%±3d
	1pF-1nF		2%±3d	2%±3d
Resistance	1MΩ-10MΩ	5%±3d	5%±3d	
	1KΩ-1MΩ	1%±3d	0.5%±3d	1%±3d
	1Ω-1KΩ	1%±3d	0.5%±3d	0.5%±3d
	10mΩ-1Ω	2%±3d	2%±3d	2%±3d
Diode	Forward voltage drop less than 0.7V			

Size(HxWxD): 152mm x 31mm x 20mm **Weight:** 45g
Accessories: 3.7V Li-ion batteries and clamshell.

DT-991 Series & 200 Series/9932FC High Performance Digital Multimeters



Model 204



Model 991

EN 61010-1 CAT II 600V

Specifications

Function	Max Range	Basic Accuracy	991/200	992/201	993/202	202T	204
Voltage DC	600V	±(0.8%±2d)	*	*	*	*	*
Voltage AC	600V	±(1.2%±10d)	*	*	*	*	*
Current DC	10A	±(1.2%±2d)	*	*	*	*	*
Current AC	10A	±(1.8%±7d)		*/-	*	*	*
Resistance	2000Ω	±(0.8%±2d)	*	*	20MΩ		
	40MΩ	±(0.8%±2d)	*	*			
Temperature	760ºC/1400ºF	±(3.0%±3d)			*	*	*
Duty Cycle	0.1%~99.9%	±(1.2%±2d)		*	*	*	*
Frequency	9.999MHz	±(1.5%±4d)			*	*	*
Capacitance	200uF	±(2.5%±5d)			*	*	
	40mF	±(2.5%±5d)					*
Diode Check	Open voltage 2.8Vdc		*	*	*	*	*
Continuity	Threshold 30Ω		*	*	*	*	*
Bat. Test	9V(6mA); 1.5V(100mA)		*				

991 Series:
Size(HxWxD): 121.5mm x 60.6mm x 40mm
Weight: 150g

200 Series:
Size(HxWxD): 146mm x 66.2mm x 41.5mm
Weight: 200g

Accessories: Test leads, Holster and 9V battery, clamshell.



Model 9932FC

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Specifications (9932FC)

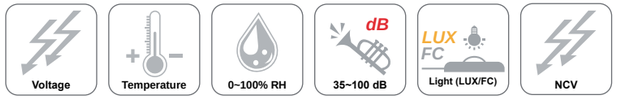
Function	Max Range	Min Resolution	Basic Accuracy
Voltage DC	1000V	0.1mV	±(1.2%+2d)
Voltage AC	750V	0.1mV	±(0.8%+3d)
Current DC	20A	0.1uA	±(1.5%+3d)
Current AC	20A	0.1uA	±(1.8%+5d)
Resistance	40MΩ	0.1Ω	±(1.0%+2d)
Capacitance	100uF	10pF	±(3.5%+5d)
Frequency	9.999MHz	0.001Hz	±(1.2%+3d)
Duty Cycle	99.9%	0.1%	±(1.2%+2d)
Temperature	1000ºC/1832ºF	0.1ºC/ºF	±(3%+2ºC/ºF)
Diode Check	1.5VDC test 0.3mA current		
Continuity Check	Threshold 30Ω, continuity beeper 2.7kHz		



Size(HxWxD): 197mm x 88.4mm x 41.2mm
Weight: 635g

Accessories: Rubber holster, Test leads, K-type temperature probe, 9V battery, RS-232 PC cable and Software diskette, Gift box with carrying case.

DT-21
5 in 1 Digital Multimeter with Environment Measurement



21 Digital Multifunction Environment Meter have been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter and digital multimeter. it is an ideal Multifunction Environment Instrument with scores of practical applications for professional and home use.

Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 21

Specifications

Function	Max Range	Resolution	Basic Accuracy
Light	20,000Lux	0.1Lux	±0.5%±10d
Sound	100dB	0.1dB	±3.5dB
Humidity	95%RH	0.1%RH	±5%RH
Temperature	1300°C	0.1°C	±3%±1d
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	100mV	±1.2%±10d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	2MΩ	0.1Ω	±0.8%±2d

Size(HxWxD): 121mm x 60.6mm x 40mm **Weight:** 280g
Accessories: Rubber holster, 9V battery, Test leads and K-Type temperature probe..

DT-51/61 6 in 1 Digital Multimeter with Environment Measurement

The model 61 is 6 in 1 Digital Multimeter with Environment Measurement. It has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter & Non-contact AC voltage detector.
The model 51 is without temperature (ºF) range. They are ideal Multifunction Environment & DMM Instruments with scores of practical applications for professional and home use.
The Sound Level function can be used to measure noise in factories, schools, offices and home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The sensitive component of light used in the meter is a very stable, long life silicon ciode.The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.
The DMM function include ACV, DCV, ACA, DCA Resistance, Capacitance, Frequency, Duty Cycle, Diode, Continuity test and Non-contact AC voltage detector.

Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
Light	20,000 Lux	0.1 Lux	±5%±10d
	40,000 Lux		
Sound	100dB	0.1dB	±3.5dB
Humidity	99%RH	0.1%RH	±3.5%RH
Temperature	-20 ~ 750 ºC	0.1º up to 400º,1º over 400º	±3%±3ºC
	-4 ~1400ºF	0.1º up to 400º,1º over 400º	±3%±5ºF
NCV	50-1000V		
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	0.1mV	±1.2%±10d
Current AC	10A	0.1uA	±1.0%±2d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	40MΩ	0.1Ω	±0.8%±2d
Capacitance	100uF	0.01nF	±3.5%
Frequency	10MHz	0.001Hz	±1.5%
Duty Cycle	99.9%	0.1%	±1.2%
Diode Check	Open voltage 2.8VDC; Test current lmA		
Continuity Test	Threshold 30Ω		

Size(HxWxD): 170mm x 79mm x 50mm **Weight:** 342g
Accessories: 9V battery, Test leads and K-Type temperature probe.
Infrared Temperature Probe (**Option** IR-82)

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V





Model 61

DT-9626/9627/9628

Professional True RMS Industrial Digital Multimeters with InfraRed Thermometers

- *Bluetooth interface*
- *PC Calibration*

- *IP67 dust and water proof*
- *True RMS*



Model 9626



Meterbox Pro



Backlight for knob Switch



InfraRed Thermometer sensor







9626/9627/9628 are Professional Digital Multimeters which provide much safer measurements with double molded plastic housing and IP67 waterproof design. 9628 perform like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that readings are easy to read under all circumstances.

All inputs are protected to EN 610101-1 CATIV 600V/CATIII 1000V.

Backlight for LCD, knob Switch

Built-in Infrared Thermometer

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

TÜVRheinland ZERTIFIZIERT

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Features

	9626	9627	9628
50,000 counts high resolution (0.01mV, 0.01μA, 0.01Ω)			*
Larger 50000 counts display with bargraph	6000 counts LCD dispay	6000 counts LCD dispay	Negativity LCD Display
AC+DC Measurement	*	*	*
9999 Readings memories		*	*
AC bandwidth (voltage/current)	3kHz	3kHz	10kHz
Analog bargraph/segment	*/60	*/60	*/60
True RMS measurement	*	*	*
1000V input protection on all ranges	*	*	*
4-20mA process loop measurements with % reading		*	*
Backlight for LCD, knob Switch	*	*	*
Data Hold/MAX/MIN recording mode	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*
Wide capacitance range	*	*	*
Bluetooth interface with Meterbox pro software		*	*
Powerful Working light	*	*	*
Built-in InfraRed Thermometer	*	*	
Low pass fiter (VFD)	VFD	VFD	LPF

Specifications

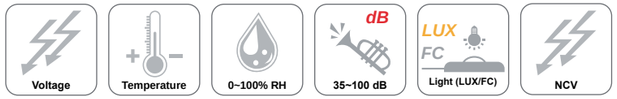
Function	Max. Range	Max.Resolution	Basic Accuracy
Voltage DC	1000 V	10μV	±0.03% (9628) ±0.5% (9626/9627)
Voltage AC	1000V	10μV	±1.0%
Current DC	10A	0.01μA	±1.0%
Current AC	10A	0.01μA	±1.5%
Resistance	60MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	60mF	10PF	±3.5%
IR Temperature	-20 ~ 750 °C/ -4 ~1400°F	0.1° up to 400°,1° over 400°	±1%±1°C/1.8°F
Temperature (Type K)	-50°C to 1300°C -58°F to 2372°F	0.1°C/°F	±1.0%
Diode Check	Test current <0.5mA MAX 3V		
Continuity Test			

Size(HxWxD): 161mm x 76mm x 51mm
Weight: 342g

Accessories: Test leads, 9V battery, Type K temperature probe, gift box with carrying case.

DT-61H

6 in 1 Digital Multimeter with Environment Measurement with InfraRed Thermometer



The model 61H is 6 in 1 Digital Multimeter with Environment Measurement. It has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter & Non-contact AC voltage detector.

- The Sound Level function can be used to measure noise in factories, schools, offices and home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
- The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The sensitive component of light used in the meter is a very stable, long life silicon ciode.The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermo-couple.
- The DMM function include ACV, DCV, ACA, DCA Resistance, Capacitance, Frequency, Duty Cycle, Diode, Continuity test and Non-contact AC voltage detector.
- Backlight for LCD, knob Switch
- Built-in Infrared Thermometer



Model 61H

Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
Light	20,000 Lux	0.1 Lux	±5%±10d
	40,000 Lux		
Sound	100dB	0.1dB	±3.5dB
Humidity	99%RH	0.1%RH	±3.5%RH
Temperature	-20 ~ 750 °C/ -4 ~1400°F	0.1° up to 400°,1° over 400°	±3%±3°C
			±3%±5°F
IR Temperature			±1%±1°C/1.8°F
NCV	50-1000V		
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	0.1mV	±1.2%±10d
Current AC	10A	0.1uA	±1.0%±2d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	40MΩ	0.1Ω	±0.8%±2d
Capacitance	100uF	0.01nF	±3.5%
Frequency	10MHz	0.001Hz	±1.5%
Duty Cycle	99.9%	0.1%	±1.2%
Diode Check	Open voltage 2.8VDC; Test current lmA		
Continuity Test	Threshold 30Ω		

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Size(HxWxD): 161mm x 76mm x 51mm
Weight: 342g

Accessories: 9V battery, Test leads and K-Type temperature probe, gift box.







DT-9988S

Industrial Hand-Held Oscilloscopes



Model 9988S

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Size(HxWxD): 262 mm x 138 mm x 58 mm
Weight: 1.5kg

9988S is the rugged oscilloscope solution for industrial electrical and electro-mechanical troubleshooting and maintenance applications. It's a truly integrated test tool, with oscilloscope, multimeter and high-speed recorder in one easy-to-use instrument. With Recorder Event Detect capabilities, elusive intermittent events are captured and logged for easy viewing and analysis.

Features

- Dual-input digital oscilloscope and multimeter
- 100 MHz oscilloscope bandwidth
- Two 5,000-count true-rms digital multimeters
- Dual-input waveform and meter reading recorder fortrending data over extended periods
- Recorder Event Detect captures elusive intermittent signals onrepetitive waveforms up to 4 kHz

Specifications

Oscilloscope mode		
Vertical		
Frequency response - DC coupled	10:1 Probe	DC to 100 MHz (-3 dB)
Frequency response - AC coupled (lf roll off)	without probes and test leads	<10 Hz (-3 dB)
Input impedance	10:1 Probe	5 MΩ//15.5 pF
Sensitivity	5 mV to 200 V/div	
Analog bandwidth limiter	10 kHz	
Max. input voltage	CATIV 600 V, CAT III 1000V	
Horizontal		
Ranges (Normal)	Equivalent sampling	10 ns to 500 ns/div
	Real time sampling	1 µs to 5 s/div
	Single (real time)	1 µs to 5 s/div
	Roll (real time)	1s to 60 s/div
DC voltage	600 mV, 6 V, 60 V, 600 V, 1000 V	± (0.5 % +5 counts)
True-rms voltages (V ac and V ac+dc)	600 mV, 6 V, 60 V, 600 V, 1000 V	± (1 % +10 counts)
Peak	600 mV, 6 V, 60 V, 600 V, 2800 V	5 % of full scale
Frequency (Hz)	15 Hz (1 Hz) to 50 MHz in continu-ous autoset	± (0.5 % +2 counts)
RPM	50.00 kRPM	± (0.5 % +2 counts)
Duty cycle (PULSE)	2 % to 100 %	15 Hz (1 Hz) to 30 MHz in continuous autoset
Pulse width (PULSE)	15 Hz (1 Hz) to 30 MHz in continuous autoset	
Ohm (Ω)	60 Ω, 600 Ω , 6 kΩ, 60 kΩ, 600 kΩ, 6 MΩ, 60 MΩ	± (0.6 % + 5 counts) 50 Ω ±(2 % + 20 counts)

DT-970/971/972/973 Professional True RMS Industrial Digital Multimeters

970/971/972/973 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 972/973 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that readings are easy to read under all circumstances.

All inputs are protected to EN 610101-1 CATIV 600V/CATIII 1000V.



Model 972

- *Bluetooth interface*
- *50000 counts*
- *PC Calibration*

- *IP67 dust and water proof*
- *True RMS*

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Available on the App Store

Get it on Google play

Meterbox Pro



Features

	970	971	972	973
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)			*	*
Large 50000 counts display with bargraph	6000 counts LCD dispay	6000 counts LCD dispay	Negativity	OLED Display
AC+DC Measurement	*	*	*	*
9999 Readings memories		*	*	*
AC bandwidth (voltage/current)	3kHz	3kHz	10kHz	10kHz
Analog bargraph/segment	*/60	*/60	*/60	*/60
True RMS measurement, 1000V input protection on all ranges	*	*	*	*
4-20mA process loop measurements with % reading		*	*	*
Data Hold/MAX/MIN recording mode, Wide capacitance range	*	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*	*
Bluetooth interface with Meterbox pro software		*	*	*
Low pass fiter (VFD)	VFD	VFD	LPF	LPF

Specifications

Function	Max. Range	Max.Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (972/973),±0.5% (970/971)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	60MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	60mF	10PF	±3.5%
Temperature	-50ºC to 1300ºC	0.1ºC/ºF	±1.0%
Diode Check	Test current <0.5mA MAX 3V		
Continuity Test			

DT-9998

Professional True RMS Industrial Multimeter / Oscilloscope with Android Platform



Worldwide Patent

9998 Professional True RMS Industrial Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. Android Platform permits smart multifunctions such as firmware up grade, PC calibration etc.

Meterbox Pro software & cloud server support to transfer the measured data to customer's smartphone to edit and store.

- *TFT color LCD display*
- *50000 counts*
- *PC Calibration*
- *Android Platform*

- *IP67 dust and water proof*
- *True RMS*

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

Features

Large 50,000 count 320 x 240 TFT color LCD display
20MHz/50MS/s bandwidth/Real time sample rate
Logging function with Trend Capture for easy review of logged data
Bluetooth PC interface for easy data transfer & accuracy calibration
100kHz ACV, ACA bandwidth
AC, AC+DC true-RMS measurements
0.025% DCV accuracy with Fully PC Calibration
Save measurements, records events and trends
20 Times/sec. A/D convert fast sampling time
Peak capture (records transients as fast as 250µs)
Min/Max/Average with Time stamp (records signal fluctuations)
Motor winding and low ohm (50Ω) measurement range
Low pass filter
Bluetooth interface to smartphone / PC.
Android Platform permits smart multifunctions such as updating software on line, PC calibration etc

Bluetooth



Specifications

Oscilloscope Functions			
Display Size	3.5" color LCD; 320 x 240 pixels		
Bandwidth	20MHz		
Real time sample rate	50MS/s		
Risetime	10ns		
Channel	1		
Vertical Sensitivity	50mV/div to 200V/div		
Vertical Resolution	8 bits		
Trigger Mode	Free Run, falling edge, rising edge		
Trigger Source	Internal		
Trigger Coupling	AC/DC		
Input Impedance	1MΩ/15pF		
Max Input Volatage	1000Vp-p		
Cursor Measurement	Voltage and time/ Frequency		
True RMS Multimeter Functions			
Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-200ºC to 1350ºC	0.1ºC	±(1.0% + 2.5ºC)
Resistance	50MΩ	0.01Ω	±(0.05% + 2)
Capacitance	10mF	0.001nF	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	6 hours Li-ion rechargeable battery;AC Adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm **Weight:** 631g
Accessories:
Test leads, Li-ion battery, Type K temperature probe, Bluetooth and Software, gift box with carrying case.



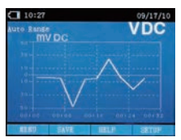
Model 9998



10MHz Oscilloscope Function



Fast response time



Trend Capture function



Multifunction Selectable

Professional AC, AC/DC Autoranging Clamp Meters





Professional Clamp Meters Selection Guide



Professional AC/DC True RMS InfraRed Thermal Clamp Meter with Datalogging, Bluetooth connectivity **P191**

DT-9581 Clamp Meter with Thermal imaging is troubleshooting and diagnosing tool for electrical equipment that can quickly check hot spots on high-voltage equipment and transformers, and safely detect overheating of system components, fuses, wires, insulators, connectors, splices and switches to prevent safety hazards. The clamp meter's advanced electrical features – True RMS, VFD, Loz in AC measurement and fast A/D converting sampling time and wide range of functions provide fast and reliable way to identify overloaded circuits. The connectivity to Thermview+ App via Bluetooth can transmit images and readings to a smartphone, to save time and simplify on data collection, reporting and sharing.



Professional 1000A AC, AC/DC True RMS Clamp Meters **P193**

DT-9380/9381/9381A Industrial clamp meter with advanced features – True RMS, Loz (DT-9381A) and variable frequency drive (VFD) filtering functions (DT-9381A) offer advanced troubleshooting performance. The meters help users accurately analyze voltage/current in complex machinery by including inrush (DT-9381A) and wide range of current/voltage 1000V and 1000A. You can also use it to measure temperature, capacitance and frequency.



AC True RMS Fork Clamp Meter With White LED Blacklight **P197**

DT-390 is a versatile troubleshooting tool to carry to every job site. It can be used to check voltage and current with one compact tool and also to check resistance, capacitance, continuity and diode test. Its open jaw current measurement allows you to check current up to 200A without breaking the circuit. The Auto-sense feature enables the meter to recognize the input and automatically switch to the correct mode. Its double molded test leads stow neatly in the back of the tester, making it easy to carry and use. Negativity LCD display, backlight for button and knob switch and flashlight make it easier to see in dark location.



3000A True RMS AC Flex Clamp Meter **P209**

DT-320 is made with a narrow, 18-inch (457mm) flexible coil clamp. Unlike hard jaw clamp meters, the DT-320 coil clamp can be manoeuvred, snaked and bent to reach into areas that are obstructed or difficult to reach, it allows you easily take measurements in tight location to simplify difficult current measurements with wide range of 3000A current. The True RMS measurement is for accurate readings of noisy, distorted and non-sinusoidal waveforms.



CATIV 1000V 2000A AC, AC/DC True RMS Clamp Meters **P211**

DT-3398B/3398W Professional True RMS Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

Professional AC/DC True RMS Clamp Meters with 120x120 InfraRed Thermal Imager





- *Fast response time*
- *True RMS*
- *TFT color LCD display*
- *6000 counts*

Features

Built-in Thermal Imager with 120x120 InfraRed resolution quickly and safely identifies hot spots without contact
2.4'' TFT color 6000 counts LCD display with 240x320 pixels for easy and clear viewing of images and readings
True RMS measurement for ACV / ACA / LoZ for ACV measurement
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
1.4'' (37mm) Jaw opening
Flexible current probe (320B/320BS optional) expands the measurement range to 3000 ACA
AC, AC+DC True RMS measurement & 1KHz ACV, ACA bandwidth
A/D convert fast sampling time: 10 times/sec
Peak capture as fast as 500μS & Inrush current
Min/Max/Avg with Time stemp (records signal fluctuations)
With Bluetooth connect to Thermview+ smart phone App for documentation reporting and sharing
Logging function with Trend capture for easy review of logged data
Double molded plastic housing for safe testing and flashlight for dark location

Specifications

				9481	9581
Thermal Imager					
IR resolution	120x120 pixels				*
Field of View (FOV)	21° x 21°				*
Thermal sensitivity/ NETD	< 0.08°C /80mK				*
Image frequency	50Hz				*
Object temperature range	-20 to 260°C (-4 to 500°F)				*
Spectral range	8-14 μm				*
Color palettes	Iron/Rainbow/Grey/Grey Inverted/Feather				*
Accuracy	±2°C (±3.6°F) or ±2% of reading				*
True RMS Multimeter Functions					
Function	Maximum	Max. resolution	Best Accuracy		
Voltage DC	1000V	100mV	±(0.5% + 5d)	1500V	*
Voltage AC	1000V	100mV	±(1.2% + 5d)	1500V	*
Current DC	1000A	0.01A	±(2% + 8d)	*	*
Current AC	1000A	0.01A	±(2.5% + 5d)	*	*
Flexible A	3000A	0.01A	±(3.0%+5d)	*	*
Resistance	60MΩ	0.1Ω	±(0.8% + 5d)	*	*
Capacitance	100mF	0.01nF	±(3.0% + 5d)	*	*
Frequency	10MHz	0.01Hz	±(0.2% + 5d)	*	*
Inrush Current	1000A	1A		*	*
Temperature	1000°C/1832°F		±(1.5%+3°C)	*	*
Diode & Continuity	Yes			*	*
Interface	Bluetooth			*	*
Power Supply	Li-ion rechargeable battery			*	*

Size(HxWxD): 95mm x 270mm x 42mm **Weight:** 550g

Accessories: Test leads, gift box with carrying case, Temperature probe, Li-ion rechargeable battery, AC Charger







www.tuv.com

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V

Meterbox Pro

Thermview+

Available on the App Store

Get it on Google play





Professional 1000A AC, AC/DC True RMS Clamp Meters with TFT color LCD display



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

TÜVRheinland ZERTIFIZIERT
www.tuv.com

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

DT-9380/9380A/9381/9381A/9382/9382B
Professional 1000A AC, AC/DC True RMS Clamp Meters with TFT color LCD display

True RMS ACV/ACA · Double Molded Plastic housing · Double Molded Test Leads · Backlight · Bluetooth · Flashlight

The 9380/9381/9382 series clamp meters provide fast A/D converting sampling time, high accuracy, offer all needed features for measurement. They are with modern bodies and jaws design for perfect handheld and tight place testing. A large backlit display is easy to see and a handy data hold keeps measurements on the display.

- Double molded plastic housing
- True RMS measurement for ACV & ACA
- Flexible current probe expands the measurement range to 3000 ACA (9382)

- ***Fast response time***
- ***True RMS***
- ***TFT color LCD display (9382)***
- ***PC Calibration***

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Features

	9380	9380A	9381	9381A	9382	9382B
Current measurement	AC	AC	AC/DC	AC/DC	AC/DC	AC/DC
Display counts	4000	6000	4000	6000	6000	6000
1.8”TFT color LCD display counts					*	Negativity
AC True RMS	*	*	*	*	*	*
Data Hold & Peak Hold		*		*	*	*
Max /Min Hold	*		*		*	*
REL (Zero) Function			*	*	*	*
Flashlight and Backlight	*	*	*	*	Flashlight	Flashlight
Auto Power Off	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*
100ms Inrush current		*		*	*	*
Low input impedance prevents false readings due to “ghost voltage” (LoZ)		*		*	*	
Low pass filter for accurate measurement of variable frequency drive (VFD) signals		*		*	*	*
Max Jaw opening 1.4”(35mm)	*	*	*	*	*	*
Bluetooth interface					*	*
3000A ACA flexible clamp					*	
Trend capture function					*	
Fast response time					10 times/sec.	
100 Graph Data review					*	
NCV Function	*	*	*	*	*	*

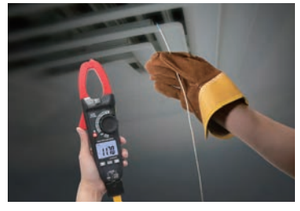
Specifications

Function	Max Range	Basic Accuracy	9380	9380A	9381	9381A	9382	9382B
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*	*	*
Voltage AC	1000V	±(1.0%+5d)	*	*	*	*	*	*
Current DC	1000A	±(2.0%+5d)			*	*	*	*
Current AC	1000A	±(2.5%+8d)	*	*	*	*	*	*
ACA flexible	3000A	±(2.5%+8d)					*	
Resistance	60MΩ	±(3.0%+5d)	40MΩ	*	40MΩ	*	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)	*	*	*	*	*	*
Capacitance	100mF	±(2.5%+5d)	*	*	*	*	*	*
Frequency	10kHz	±(0.5%+2d)	*	*	*	*	*	*
Inrush Current	1000A	±(2.5%+2d)		*		*	*	*
Continuity check	Buzzer sounds at 50Ω							
Diode test	Test current 0.3mA							

Size(HxWxD): 250mm x 78mm x 40mm **Weight:** 350g

Accessories: Test leads, gift box with carrying case, Temperature probe and 1.5V AAA x 3 batteries, Software(9382) Flexible clamp (9382)







Flexible clamp (optional)
Model DT-320BS

Meterbox Pro



Model 9382



Model 9381



Model 9380

DT-9280/9281/9281A/9282

Professional 600A AC, AC/DC True RMS Clamp Meters with Inrush current



Model 9282

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

- *Fast response time*
- *True RMS*

- *PC Calibration*
- *Double molded housing*







Model 9281

Meterbox Pro

Available on the App Store

Get it on Google play

True RMS ACV/ACA | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads | Backlight Backlight | Bluetooth | Flashlight Flashlight

DT-9280/9281/9281A/9282 clamp meters providing fast A/D converting sampling time, high accuracy offer all needed features for measurement. They are with modern bodies and jaws designed for perfect handhold and tight place testing. A clear backlit display is easy to see and a handy data hold keeps measurements on the display.

Professional clamps featuring Low impedance (LoZ) mode and choice of advanced model with Low Pass Filter (VFD) and inrush functions (9282)

Features

	9280	9281	9281A	9282
Current measurement	AC	AC/DC	AC/DC	AC/DC
Display counts	6000	6000	6000	6000
OLED display				*
Backlight & Flashlight	*	*	*	*
AC True RMS	*	*	*	*
Low pass filter (VFD)	*	*	*	*
Data Hold	*	*	*	*
Peak Hold	*	*	*	*
REL (Zero) Function		*	*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
100ms Inrush current	*	*	*	*
1.3” (34mm) Jaw opening	*	*	*	*
Bluetooth interface				*
LoZ Voltage measurement	*	*	*	*
NCV Function	*	*	*	*

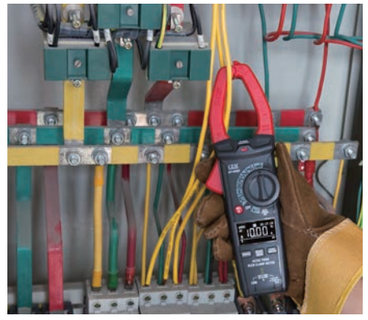
Specifications

Function	Max Range	Basic Accuracy	9280	9281	9281A	9282
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*
Voltage AC	1000V	±(1.0%+5d)	*	*	*	*
Current DC	600.0A	±(2.0%+5d)		*	*	*
Current AC	600.0A	±(2.5%+8d)	*	*	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)	*	*	*	*
Capacitance	100mF	±(2.5%+5d)	*	*	*	*
Frequency	100kHz	±(0.5%+2d)	*	*	*	*
Inrush Current	600.0A	±(1.5%+2d)	*	*	*	*
Continuity check	Buzzer sounds at 50Ω					
Diode test	Test Current <0.5mA MAX 3V					

Size(HxWxD): 239mm x 72mm x 40mm **Weight:** 318g

Accessories: Test leads, gift box with carrying case, temperature probe and 1.5V AAA x 3 batteries





DT-9180C/9180D/9180/9181H/9181/9182

Compact 400A AC, AC/DC True RMS Clamp Meters with NCV Detector

True RMS ACV/ACA | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads | Backlight Backlight | Flashlight Flashlight

The 9180 Series clamp meters provide fast A/D converting sampling time, high accuracy, offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on the most of models) is easy to see and a handy data hold keeps measurements on the display.

- Double molded plastic housing (9180/9180D/9181/9181H/9182)
- True RMS measurement for ACV & ACA

- *400A AC, AC/DC True RMS Clamp Meters*
- *NCV Function*



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT II 1000V



Model 9181

Features

	9180C	9180D	9180	9181H	9181	9182
Current measurement	AC	AC	AC	AC/DC	AC/DC	AC/DC
Display counts	4000	4000	4000	4000	4000	4000
AC True RMS	*	*	*	*	*	*
Low pass filter (VFD)			*		*	*
Data Hold	*	*	*	*	*	*
Peak/ MAX/ MIN	MAX/ MIN	MAX/ MIN	*	MAX/ MIN	*	*
REL (Zero) Function			*	*	*	*
Flashlight and Backlight	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*
100ms Inrush current			*		*	*
1.18” (30mm) Jaw opening	*	*	*	*	*	*
LoZ Voltage						*
NCV Function	*	*	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	9180C	9180D	9180	9181H	9181	9182
Voltage DC	1000V	±(0.5%+2d)	600V	600V	*	600V	*	*
Voltage AC	1000V	±(1.0%+5d)	600V	600V	*	600V	*	*
Voltage VFD	600V				*		*	*
LoZ Voltage	<600V							*
Current DC	400.0A	±(2.0%+5d)				*	*	*
Current AC	400.0A	±(2.5%+8d)	*	*	*	*	*	*
Resistance	40MΩ	±(3.0%+5d)	*	*	*	*	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)		*	*	*	*	*
Capacitance	100mF	±(2.5%+5d)	4mF	4mF	*	4mF	*	*
Frequency	ACV 100kHz	±(0.5%+2d)	ACV 10kHz	ACV 10kHz	*	ACV 10kHz	*	*
Inrush Current	400.0A	±(1.5%+2d)			*		*	*
Diode test	Test Current <0.5mA MAX 3V		2V	2V	*	2V	*	*
Continuity check	Buzzer sounds at 50Ω							

Size(HxWxD): 225mm x 72mm x 40mm
Weight: 294g

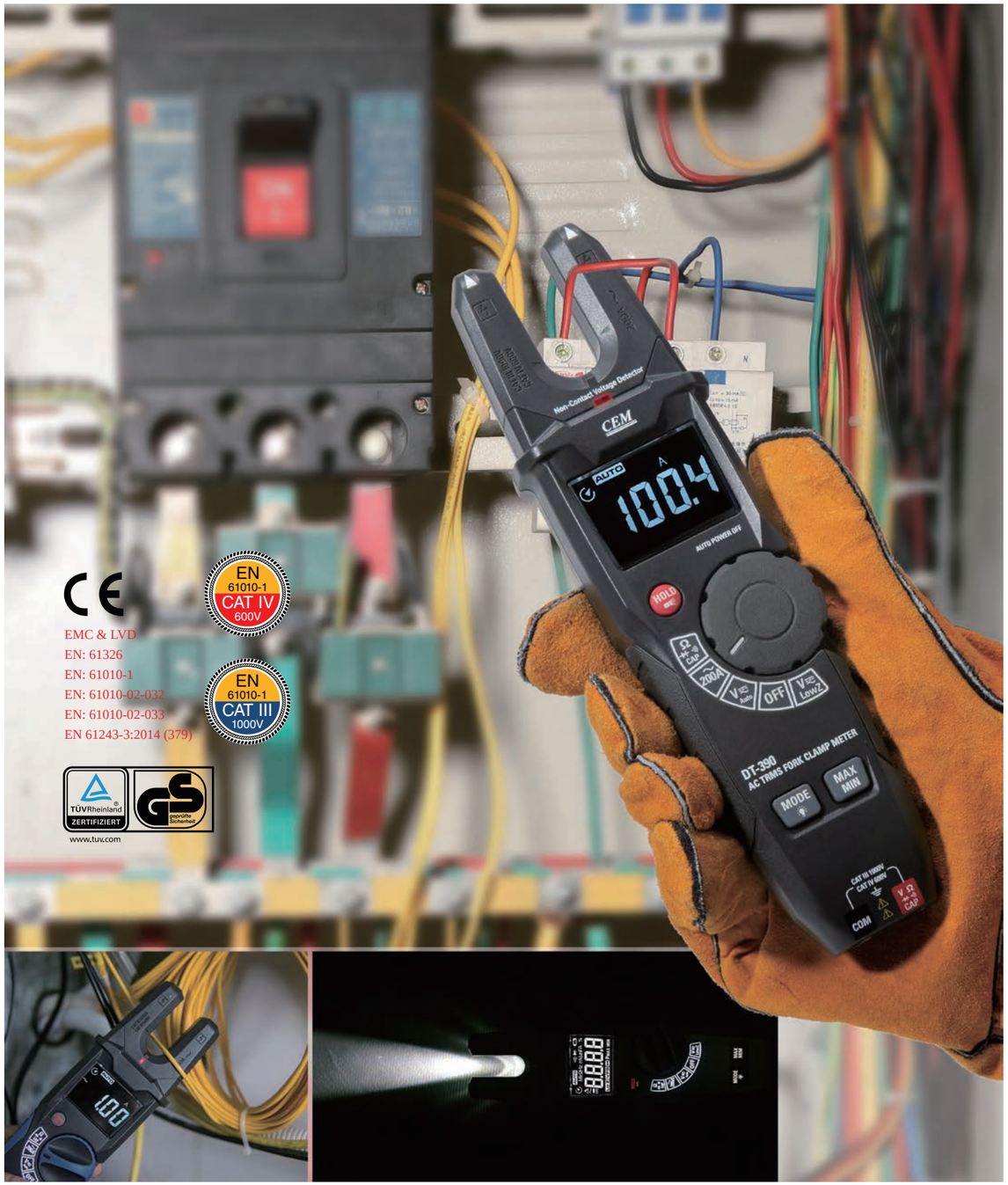
Accessories: Test leads, gift box with carrying case, Temperature probe (except 9180C) and 1.5V AAA x 3 batteries



Model 9180C
(Single molded plastic housing)

AC True RMS Fork Clamp Meter With White LED Blacklight

390/390B/391 clamp meter offers all needed features for measurement. They have has small bodies and jaws design for perfectly handhold and tight place testing. A large backlit display is easy to see and a handy Display Hold keeps measurements on the display. Measuring starting current for motors, lighting, etc.



DT-390/390B/391
AC True RMS Fork Clamp Meter With White LED Blacklight
CEM



Features

	390	390B	391
200A AC Current measurement	*	*	*
Digital display counts	6000	6000	6000
Display type(Negativity display)	*	Positive	*
Compact size	*	*	*
Data Hold & MAX/MIN Function	*	*	*
Peak Value & Inrush Current			*
Backlight for button, knob Switch & Flashlight	*	*	*
Low battery indication	*	*	*
16mm Jaw opening	*	*	*
Auto sense Voltage	*	*	*
NCV	*	*	*
Low Z & True RMS	*	*	*
Non contact voltage test			*

Specifications

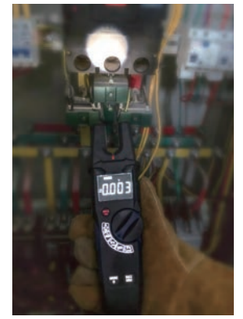
Function	Max Range	Basic Accuracy	390/390B	391
Voltage DC	1000V	±(0.8%+3d)	*	*
Voltage AC	1000V	±(1.0%+3d)	*	*
Current AC	200A	±(3.5%+5d)	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*
Capacitance	4000mF	±(2.5%+5d)	*	*
Non contact voltage test	600V	±(2.5%+5d)		*
LoZ (＜600V)			~3KΩ	
Continuity check	Buzzer sounds at 50Ω			
Diode test	Test current 0.35mA 3V			

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033
EN 61243-3:2014 (379)

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V





Model 390

DT-379/379H Voltage Tester

Features

	379	379H
LCD/LED Indication Range: 6 V to 1000 V DC and AC/ 12 V to 1000 V DC and AC	*	*
Independent ELV indicator LED, indicates if >50 V AC/120 V DC is present even in the situation of no battery power or main circuit failure	*	*
Data HOLD, Backlight for button & Fashlight	*	*
Beeper for Phase/ACV	*	*
19 mm Probe Tip distance when docked	*	*
Auto Voltage detection/ Full range Polaritydetection	*	*
Operation / Duration Time =30 seconds, Recovery Time =240 seconds	*	*
True RMS on ACV/ACA		*
Measure voltage without battery with LED bar and LCD display		*

Specifications

		LEDs	LCD	379	379H
Voltage range AC/DC	With batteries	12V, 24V, 50V, 120V, 230V, 400V, 600V, 1000V	6V to 1000V AC/DC	*	*
	Without battery	50V, 120V, 230V, 400V, 600V, 1000V	45V to 1000V AC/DC		*
Tolerance		Complies with EN 61243-3:2014	±(3 % rdg + 5 digits)	*	*
Frequency range		0 / 40 Hz to 400 Hz	0 / 40 Hz to 400 Hz	*	*
Response time		≤0.5 second	≤1 second	*	*
Auto power on		≥12 V AC/DC	≥6 V AC/DC	*	*

	Range	Accuracy
Current AC	0 to 200A	±(3.5%+5d)
Continuity Test (Test current ≤5 μA)	0 to 400 kΩ	Nominal resistance +50 %
Resistance (Test current ≤30 μA)	0 to 1999 Ω	±(5 % rdg +10 digits) @ 20 °C
Rotary Field Indication		
Voltage range (LEDs)	100 V to 1000 V (phase to earth)	
Frequency range	50 Hz to 60 Hz	
Internal basic load impedance Peak current	Maximum 3.5 mA at 1000 V 350 kΩ / Is <3.5 mA	

Size(HxWxD): 230mm x 44mm x 66mm **Weight:** 259g
Accessories: Test leads, gift box with carrying case, Two “1.5V AA” batteries.



Model 379H



Model 379

DT-392D/393BT

AC/DC True RMS Dual Display Automatic Scanning Test Clamp Meter

DT-392D/393BT clamp meters provide Dual fast A/D converting sampling time, high accuracy offer all needed features for measurement. It has modern bodies and jaws design for perfect handhold and tight place testing. A clear backlit display is easy to see and a handy data hold keeps measurements on the display.



Model 392D

High Safety
Dual display large screen

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032

Features

	392D	393BT
Current measurement	AC	AC/DC
Display counts	6000	6000
Dual display large screen	*	*
AC True RMS	*	*
Low pass filter (VFD)	*	*
MAX/MIN & Data Hold	*	*
REL (Zero) Function		*
Backlight for LCD	*	*
Low battery indication & Auto Power Off	*	*
1.3” (34mm) Jaw opening	*	*
Fast response time	*	*
NCV Function	*	*
High voltage alarm	*	*

Specifications

Function	Max Range	Basic Accuracy	392D	393BT
Voltage DC	600V	±(0.5%+2d)	*	*
Voltage AC	600V	±(1.0%+5d)	*	*
Current DC	200.0A	±(2.0%+5d)		*
Current AC	200.0A	±(2.5%+8d)	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)	*	*
Capacitance	100mF	±(2.5%+5d)	*	*
Frequency	10MHz	±(0.5%+2d)	*	*
Continuity check	Buzzer sounds at 50Ω			
Diode test	Test Current <0.5mA MAX 3V			

Size(HxWxD): 210mm x 67mm x 38mm **Weight:** 190g
Accessories: Test leads, 2x1.5V AAA batteries, gift box with carrying case.



DT-395/396/397/397BT

Professional 600A AC, AC/DC True RMS Clamp Meters Built-in Infrared Thermometers

True RMS ACV/ACA · DOUBLE MOLDED Plastic housing · SAFETY Double Molded Test Leads · Backlight Backlight · Flashlight Flashlight

- *Double molded plastic housing*
- *True RMS measurement for ACV & ACA*

DT-395/396 clamp meters provide fast A/D converting sampling time, high accuracy offer all needed features for measurement. It has modern bodies and jaws design for perfect handhold and tight place testing. A clear backlit display is easy to see and a handy data hold keeps measurements on the display.

- *100ms Inrush current*

Features

	395	396	397	397BT
Current measurement	AC	AC/DC	AC/DC	AC/DC
Display counts	6000	6000	6000	6000
AC True RMS	*	*	*	*
Low pass filter (VFD)	*	*	*	*
Optical Resolution 4:1	*	*	*	*
MAX/MIN & Data Hold	*	*		
REL (Zero) Function		*	*	*
Backlight for LCD, Flashlight	*	*	*	*
Low battery indication & Auto Power Off	*	*	*	*
100ms Inrush current			*	*
1.3” (34mm) Jaw opening	*	*	*	*
Fast response time	*	*	*	*
NCV Function	*	*	*	*
Bluetooth interface				*



IR Sensor



Model 396

Specifications

Function	Max Range	Basic Accuracy	395	396	397	397BT
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*
Voltage AC	1000V	±(1.0%+5d)	*	*	*	*
Current DC	600.0A	±(2.0%+5d)		*	*	*
Current AC	600.0A	±(2.5%+8d)	*	*	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)	*	*	*	*
IR Temperature	-30 ~ 350 ºC/ -22 ~662ºF	±1.5%±1ºC/1.8ºF	*	*	*	*
Capacitance	100mF	±(2.5%+5d)	*	*	*	*
Frequency	10kHz	±(0.5%+2d)	*	*	*	*
Inrush Current	600.0A	±(1.5%+2d)			*	*
Continuity check	Buzzer sounds at 50Ω					
Diode test	Test Current <0.5mA MAX 3V					

Size(HxWxD): 239mm x 44mm x 66mm **Weight:** 318g
Accessories: Test leads, gift box with carrying case, temperature probe and 1.5V AAA x 3 batteries

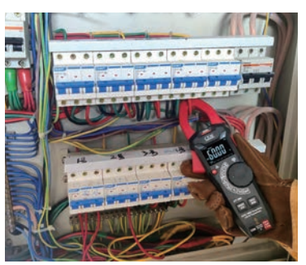
CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033
EN 61243-3:2014 (379)

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V









Model 397

AC Leakage Current Tester



DT-398/398H/399
AC Leakage Current Tester



- *Double molded plastic housing*
- *True RMS measurement for ACV & ACA*
- *Low pass filter for current*

DT-398/398H/399 clamp meters providing fast A/D converting sampling time, high accuracy offer all needed features for leakage current measurement. The are with modern bodies and jaws design for perfectly handhold and tight place testing. A clear backlit display is easy to see and a handy data hold keeps measurements on the display.

Features

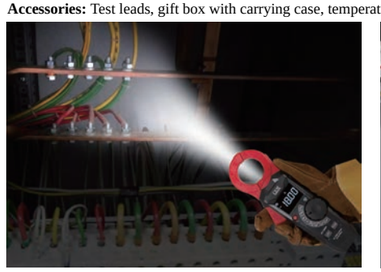
	398	398H	399
Accurate AC digital clamp meter for leakage current measurement	*	*	AC/DC
AC current measurement: 0 ~ 100A	*	*	60A
DC current measurement: 0 ~ 20A			*
AC/DC voltage measurement: 0 ~ 600V	*		*
1μA ultra high resolution on 6.000 mA range		*	DC 0.1mA
Shield transformer jaws to minimize the effect of external stray magnetic field.	*	*	*
Large jaw with 30 mm diameter.	*	*	*
ACA Six Ranges (6.000mA, 60.00mA, 600.0mA, 6.000A, 60.00A, 100A) for all application.		*	
ACA Three Ranges (6.000A, 60.00A, 100A) for all application.	*		
ACA Three Ranges (6.000A, 60.00A), DC A (60.0mA, 20A) for all application.			*
A filter circuit is designed to eliminate the effect of high frequency noise and harmonics for AC current measurement.	*	*	*
6000 Counts LCD display (Negativity display)	*	*	*
Backlight for button, knob Switch & Flashlight	*	*	*
Pmax/Pmin, Data Hold function Temp Measurement	*		*
Easy single rotary switch for any function selection	*	*	*
Continuity measurements.	*		
Frequency measurements.	*		
600V overload protection for ohm measurement	*		

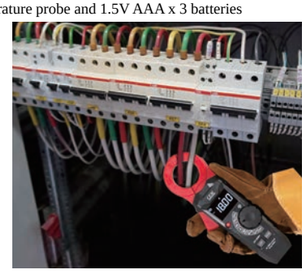
Specifications

Function	Max Range	Resolution	Basic Accuracy	398	398H	399
Voltage DC	600V	0.001V	±(0.5%+2d)	*		*
Voltage AC	600V	0.001V	±(1.0%+5d)	*		*
Current AC	6.000mA, 60.00mA, 600.0mA, 6.000A, 60.00A, 100A	1μA~100mA	±(3.0%+8d)	*		
	6.000A, 60.00A	1mA~10mA	±(3.0%+8d)		*	*
Current DC	60.0mA, 20A	0.1mA	±(2.0%+8d)			*
Resistance	60MΩ	0.1Ω	±(3.0%+5d)	*		*
Temperature	1000ºC/ 1832ºF	0.1ºC/1ºF	±(1.0%+3d)	*		*
Capacitance	99.9mF	0.001nF	±(2.5%+5d)	*		*
Frequency	100kHz	0.001Hz	±(0.5%+2d)	*		*
Continuity check	Buzzer sounds at 50Ω			*		*
Diode test	Test Current <0.5mA MAX 3V			*		*

Size(HxWxD): 239mm x 44mm x 66mm **Weight:** 318g

Accessories: Test leads, gift box with carrying case, temperature probe and 1.5V AAA x 3 batteries





EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033
EN 61243-3:2014 (379)

EN 61010-1 CAT III 300V

EN 61010-1 CAT III 600V

TÜVRheinland ZERTIFIZIERT
www.tuv.com



Model 398H



Model 398

Professional 50,000 Conuts Heavy Duty AC, AC/DC True RMS Autoranging Clamp Meters with Dual Type K Inputs



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Meterbox Pro

Amazing features and built-in apps. (3382/3383)

The Meterbox pro software can support our Clamp Meter products transfering the measured data to the customer's smartphone. Customers can easily use the software to check, transfer or edit the data with table and chart.
They also has powerful cloud functions, such as computing and storage service.

DT-3380/3381/3382/3383/3386
Professional 50,000 Counts Heavy Duty AC, AC/DC True RMS Autoranging Clamp Meters
CEM

The 3380 series clamp meters offer all needed features for measurement, design for perfect handhold and tight place testing. A large backlit display is easy to see and a handy data hold keeps measurements on the display. Dual type K inputs for temperature measuring support more application.

- Double molded plastic housing
- True RMS measurement for ACV & ACA

Drop-proof to 2M

- *True RMS*
- *Dual Type K Inputs*

Features

	3380	3381	3382	3383	3386
Current measurement	AC	AC/DC	AC	AC/DC	AC/DC
LCD display counts	50000	50000	50000	50000	50000
AC True RMS	*	*	*	*	*
Dual type K inputs	*	*	*	*	
Display with backlight	*	*	*	*	*
Data Hold & Peak Hold	*	*	*	*	*
Dual type K inputs	*	*	*	*	single
REL (Zero) Function & Max /Min	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Low battery indication	*	*	*	*	*
1.9” (48mm) Jaw opening	*	*	*	*	*
NCV Detection & flashlight	*	*	*	*	*
3000A ACA Flexible clamp					*
Inrush Current					*
Bluetooth interface			*	*	

Specifications

Function	Max Range	Basic Accuracy	3380	3381	3382	3383	3386
Voltage DC	600V	±(0.1%+4d)	*	*	*	*	1000V
Voltage AC	600V	±(1.0%+3d)	*	*	*	*	1000V
Current DC	1000A	±(2.5%+5d)		*		*	1000A
Current AC	1000A	±(2.5%+5d)	*	*	*	*	1000A
DC μA/mA Current	5000.0μA 500.00mA	±(1.0%+3d)	*	*	*	*	
AC μA/mA Current	5000.0μA 500.00mA	±(1.5%+30d)	*	*	*	*	
Resistance	50MΩ	±(3.0%+5d)	*	*	*	*	*
Temperature	1000°C/1832°F	±(1.0%+2.5°C)	*	*	*	*	*
Capacitance	5mF	±(3.5%+10d)	*	*	*	*	*
Frequency	10MHz	±(0.3%+2d)	*	*	*	*	*
ACA flexible clamp	3000A	±(2.8%+8d)					*
Continuity check	Buzzer sounds at 35Ω						50Ω
Diode test	Test current 0.3mA						*

Size(HxWxD): 230mm x 76mm x 40mm
Weight: 315g
Accessories: Test leads, gift box with carrying case, temperature probe and 9V battery.





CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

TÜVRheinland ZERTIFIZIERT
GS geprüfte Sicherheit
www.tuv.com
ID 1419031076



Model 3383



Model 3386

DT-3370B/3371B/3372B/3373/3376

Professional Heavy Duty AC, AC/DC True RMS Autoranging Clamp Meters

The 3370B series clamp meters offer all the features you need to fit the way you work. The bodies and jaws fit perfectly in your hand and into tight places. A large backlit display is easy to see and a handy Display hold keeps measurements on the display.



Model 3371B

Drop-proof to 2M

True RMS

- Double molded plastic housing
- True RMS measurement for ACV & ACA

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

EN 61010-1 CAT III 1000V

TÜVRheinland ZERTIFIZIERT GS geprüfte Sicherheit
www.tuv.com
ID 1419031076

Features

	3370B	3371B	3372B	3373	3376
Current measurement	AC	AC/DC	AC/DC	AC/DC	AC/DC
LCD display counts with backlight	4000	4000	6000	6000	6000
AC True RMS	*	*	*	*	*
Flashlight	*	*	*	*	*
Data Hold & Peak Hold	*	*	Data Hold	Peak Hold	*
Max /Min			*	*	*
REL (Zero) Function	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Low battery indication	*	*	*	*	*
Analog Bargraph / 61 seg.	* / 41 seg.	* / 41 seg.	*	*	*
1.9” (48mm) Jaw opening	*	*	*	*	*
NCV Detection & flashlight	*	*	*	*	*
Inrush Current				*	*
3000A ACA Flexible clamp					*

Specifications

Function	Max Range	Basic Accuracy	3370B	3371B	3372B	3373	3376
Voltage DC	1000V	±(0.5%+1d)	600V	600V	*	*	*
Voltage AC	1000V	±(1.5%+2d)	600V	600V		*	*
Current DC	1000A	±(2.0%+5d)		*		*	*
Current AC	1000A	±(2.5%+4d)	*	*		*	*
Resistance	60MΩ	±(3.0%+5d)	40M	40M		*	*
Temperature	1000ºC/ 1832ºF	±(3.0%+3ºC)	*	*	*	±(1.0%+3ºC)	±(1.0%+3ºC)
Capacitance	10mF	±(2.5%+5d)	4000uF	4000uF	6mF	6000uF	6000uF
Frequency	10MHz	±(1.2%+2d)	*	10kHz	*	10MHz	10MHz
Inrush Current	1000A	±(1.5%+2d)	*	*			*
ACA Flexible clamp	3000A	±(3.5%+10d)					*
Continuity check	Buzzer sounds less than 50Ω						
Diode test	Test current 0.3mA						

Size(HxWxD): 230mm x 76mm x 40mm
Weight: 315g
Accessories: Test leads, gift box with carrying case, temperature probe and 9V battery.



Model 3372





DT-3390/3391/3391W/3392/3392W/3392BT/3395

1000A AC, AC/DC Clamp Meters

3391/3392/3395 Series Professional True RMS Clamp Meters provide accurate AC, AC/DC current and voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

1000A True RMS

- *Peak Hold Function(*3392/3392W/3392BT*)*

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

TÜVRheinland ZERTIFIZIERT GS geprüfte Sicherheit
www.tuv.com
ID 1419032229





Model 3391

Features

	3390	3391/3391W	3392/3392W/3392BT	3395
True RMS measurements		*	*	*
Digital display counts	4000	4000	4000	6000
Electronic overload protection	*	*	*	*
Analog Bargraph/segments			* /41	* /61
Continuity buzzer & Diode check	*	*	*	*
Data Hold function	*	*	*	*
Peak Hold function			*	Min./Max.
Inrush current measurement				
DCA Zero function			*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
AC/DC Current	AC	AC	*	*
2” (52mm) Clamp jaw opening	*	*	*	*
NCV Detection	*	*	*	*
Bluetooth data transmission			3392BT	
Wirelss USB interface		3391W	3392W	

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution	3390	3391 3391W	3392 3392W 3392BT	3395
AC Current	1000 A	±(2.5%+5d)	10mA	*	*	*	*
DC Current	1000 A	±(3.0%+4d)	10mA			*	*
AC Voltage	600V	±(0.8%+2d)	0.1mV	*	*	*	*
DC Voltage	600V	±(1.0%+4d)	0.1mV	*	*	*	*
Resistance	40MΩ	±(1.0%+4d)	0.1Ω	*	*	*	*
Capacitance	40mF	±(3.0%+5d)	0.01nF	100μF	100μF	*	4000μF
Frequency	10MHz	±(1.2%+3d)	0.01MHz	*	*	4kHz	*
Temperature	1000ºC/1832ºF	±(3.0%+5d)	1ºC/ºF		*	*	*

Size(HxWxD): 271mm x 100mm x 47mm
Weight: 508g
Accessories: Test leads, gift box with carrying case, 9V battery and temperature probe (3391/3391W/3392/3392W/3392BT/3395/3397)



Model 3392

DT-3369T-BT

1000A AC/DC True RMS Clamp Meter with Bluetooth Interface



Model 3369T-BT

DT-3369T-BT professional 1000A AC/DC clamp meter provides multi-function for 1000A AC/DC, voltage, resistance, capacitance, frequency, temperature, duty cycle and continuity. This is with 6000 counts digital LCD display and analog bargraph, with bluetooth work with Meterbox Pro App to transmit and share data.

EN 61010-1 CAT III 600V

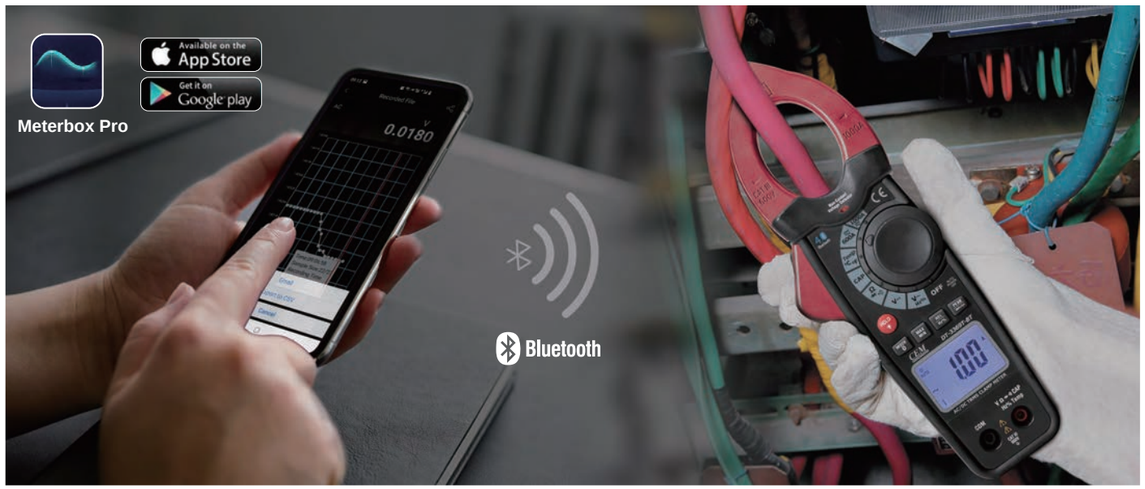
Features

- 6000 Counts digital display with 60 segments analog bar
- Electronic overload protection
- Continuity buzzer & Diode check
- Data Hold function & Backlight
- DCA Zero function
- Min/Max Hold function
- Low battery indication & Auto Power Off
- AC/DC Current
- True RMS measurement
- 1.2” (30mm) Clamp jaw opening
- Inrush current function & Peak Voltage function
- Bluetooth interface
- NCV Detection: 100V to 600V AC

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution
DC Current	1000A	±(2.5%+5d)	1mA
AC Current	1000A	±(3.0%+4d)	10mA
DC Voltage	600V	±(0.8%+2d)	0.1mV
AC Voltage	600V	±(1.0%+4d)	0.1mV
Resistance	60MΩ	±(1.0%+4d)	0.1Ω
Capacitance	6000μF	±(3.0%+5d)	0.01nF
Frequency	10MHz	±(1.2%+3d)	0.001Hz
Duty Cycle	99.9%	±(1.2%+3d)	0.1%
Temperature	1000ºC/1832ºF	±(3.0%+3d)	0.1ºC/ºF
Inrush current	1000A	0.1A	±(2.0%+5d)
Continuity check	Threshold 50Ω, test current <1mA		
Diode test	Test current of 1.5mA typical, open circuit voltage <3V DC typical		

Size(HxWxD): 229mm x 80mm x 49mm **Weight:** 303g
Accessories: Test leads, gift box with carrying case, 9V battery and temperature probe.



DT-3345/3360 Series

1000A AC, AC/DC True RMS Clamp Meters

3345/3360 Series Professional True RMS Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V







Model 3345



Model 3347



Model 3360

Features

	3343T	3345	3347	3347W	3360	3361	3363	3367	3366	3368
True RMS measurements	*	*	*	*						
Digital display counts	4000	4000	4000	4000	6000	6000	6000	6000	6600	6600
AC/DC Current	AC/DC	AC	AC/DC	AC/DC	AC	AC	AC/DC	AC/DC	AC	AC/DC
1.2” (30mm) Clamp jaw opening	*	*	*	*	*	*	*	*		
Electronic overload protection	*	*	*	*	*	*	*	*	*	*
Continuity buzzer & Diode check	*	*	*	*	*	*	*	*	*	*
Data Hold function	*	*	*	*	*	*	*	*	*	*
Analog Bargraph/segments	*	*	*	*	*/60	*/60	*/60	*/60	*/60	*/60
Peak Hold function		*	*	*						
DCA Zero function	*		*	*				*		*
MAX/MIN Hold function					MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN
Auto Power Off		*	*	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*	*	*	*
Inrush current function									*	*
USB interface				*						
Wireless transmitter				915MHz						
Communication Distance				≤ 100m						

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution	3343T	3345	3347/ 3347W	3360	3361	3363	3367	3366	3368
AC Current	1000 A	±(2.5%+5d)	10mA	*	*	*	*	*	*	*	*	*
DC Current	1000 A	±(3.0%+4d)	10mA	*		*			*	*		*
AC Voltage	600V	±(0.8%+2d)	0.1mV	*	*	*	*	*	*	*	*	*
DC Voltage	600V	±(1.0%+4d)	0.1mV	*	*	*	*	*	*	*	*	*
Resistance	40MΩ	±(1.0%+4d)	0.1Ω	*	*	*	60MΩ	60MΩ	60MΩ	60MΩ	66MΩ	66MΩ
Capacitance	40mF	±(3.0%+5d)	0.01nF	100μF	*	*	*	*	*	*	40mF	40mF
Frequency	10MHz	±(1.2%+3d)	0.01MHz	100kHz	4kHz	4kHz	*	*	*	*	10kHz	10kHz
Duty Cycle	99.9%	±(1.2%+3d)	0.1%				*	*	*	*	*	*
Temperature	1000ºC 1832ºF	±(3.0%+5d)	1ºC/ºF	*	*	*		*	*	*	*	*
Inrush current	1000A	0.1A	±(2.0%+5d)								*	*
Continuity check	Threshold 40Ω, test current <0.5mA			*	*	*	*	*	*	*	*	*
Diode test	Test current of 0.3mA typical, open circuit voltage <3V DC typical			*	*	*	*	*	*	*	*	*

Size(HxWxD): 229mm x 80mm x 49mm **Weight:** 303g
Accessories: Test leads, gift box with carrying case, 9V battery; temperature probe (3343T/3345/3347/3347W/3361/3363/3367/3366/3368)
USB cable and Software(3347W)

3000A True RMS AC Flex Clamp Meter



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

DT-320/320B/320S/320H
3000A True RMS AC Flex Clamp Meters
CEM

Features

	320/320H	320S
Head cable length	18″ (457mm)	10″ (254mm)
3000A AC current measurement	*	*
Auto ranging	*	*
Data Hold & MAX/MIN	*	*
3000 counts large scale LCD display with backlit	*	*
7.5mm coil diameter for tight space measurement	*	*
Indication low battery	*	*
Ergonomically designed one hand operation	*	*
CAT IV 600V/CAT III 1000V safety standard	*	*

Specifications

Function	Max Range	Resolution	Basic Accuracy	Accuracy (320H)
AC Current 50~400Hz True RMS	30.00A AC	0.01A	± (3.0% + 8d)	± (2.5% + 5d)
	300.0A AC	0.1A	± (3.0% + 5d)	± (2.5% + 5d)
	3000A AC	1A	± (3.0% + 5d)	± (2.5% + 5d)

Size(HxWxD): 180mm x 106mm x 28mm **Weight:** 200g
Accessories: Clamshell, 1.5V AAA x 2 batteries

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V





Model 320/320H



Model 320S

DT-320B/320BS 3000A AC Flex Clamp Adaptor

Features

18″(457mm) head cable length (320B)
10″(254mm) head cable length (320BS)
3000A AC current measurement
Slide switch to change range
Voltage output to universal voltage meters
7.5mm coil diameter for tight space measurement
2 meter extension cable
Low BAT LED indicator
Ergonomically designed one hand operation
CAT IV 600V/CAT III 1000V safety standard

Specifications

Function	Max Range	Measurement Range	Basic Accuracy	Output Voltage
AC Current 50~400Hz	30A AC	≤30.00A	100mV/A	± 3.0%
	300A AC	30.0A-300.0A	10mV/A	± 3.0%
	3000A AC	300A-3000A	1mV/A	± 3.0%

Size(HxWxD): 180mm x 106mm x 28mm
Weight: 210g
Accessories: Clamshell, 1.5V AAA x 2 batteries

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V





Model 320B

DT-388/389 Flexible AC Current Clamp meter with Datalogger

Features

	388	389
AC current True RMS measurements	*	*
4000 counts display with backlight & Analogue Bar Graph	*	*
Electronic overload protection	*	*
Data Hold & inrush function	*	*
Inrush Current	*	*
Datalogger		*
Bluetooth interface	*	*
Jaw opening 457mm (18 in) coil	*	*
3000A ACA flexible clamp	*	*
Auto Power Off	*	*
Low battery indication	*	*

Specifications

AC current range	0.5A to 3000A AC
Resolution	0.01A
Accuracy	3% ± 5 digits (50Hz to 400Hz)
Memory	Record up to 86000 readings (389)
Safety rating CAT IV 600V, CAT III 1000V	

Size(HxWxD): 230mm x 76mm x 40mm **Weight:** 315g
Accessories: Gift box with carrying case, 1.5V AAA x 2 batteries, APP Software.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

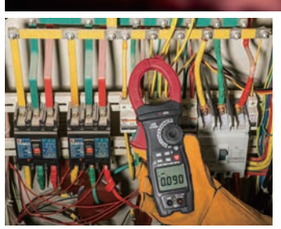


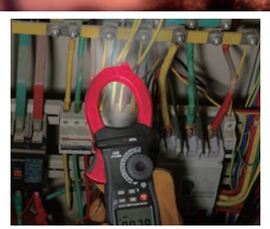


Model 389

CATIV 1000V 2000A AC, AC/DC True RMS, Solar PV Clamp Meters







- **CAT IV 1000V Safety design**
- **True RMS measurements**
- **2000A AC, AC/DC Clamp Meters**
- **Inrush current measurement**
- **Bluetooth data transmission**
- **AC+DC Applications with Testing & Maintenance (3398W)**

DT-3398/3398L/3398B/3398W/3398H
CATIV 1000V 2000A AC, AC/DC True RMS, Solar PV Clamp Meters

3398/3398L/3398B/3398W/3398H Series Professional True RMS Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform. Solar PV Clamp meters (3398/3398L)

2000A True RMS

- ***Peak Hold Function***
- ***Inrush Current Measurement***
- ***Solar Photovoltaic Voltage Measurement***

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 1000V

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www.tuv.com





Model 3398L



Model 3398W

Features

	3398	3398B	3398W/3398H	3398L
AC/DC Current	AC/DC	AC/DC	AC/DC	AC/DC
Clamp jaw opening	2″ (52mm)	2″ (52mm)	2″ (52mm)	2″ (52mm)
Digital display counts	6000	6000	6000	6000
Electronic overload protection	CAT IV 1000V	CAT IV 1000V	CAT IV 1000V	CAT III 1500V
True RMS measurements	*	*	*	*
Analog Bargraph/segments	*/61	* /61	* /61	
Continuity buzzer & Diode check	*	*	*	*
Data Hold & Peak Hold function	*	*	*	Data Hold
Flash light & Black light function	*	*	*	*
MAX/ MIN	*	*	*	*
Inrush current measurement	*	*	*	
DCA Zero function	*	*	*	*
NCV Detection	*	*	*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
V AC+DC			*	
THDf / THDr			25th harmonic	
Phase rotation indication			*	
Bluetooth data transmission		*	*	
Low pass filter			*	*

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution	3398	3398B	3398W	3398H	3398L
AC Current	2000 A	±(2.5%+5d)	1A	*	*	*	*	1500A
DC Current	2000 A	±(3.0%+4d)	1A	*	*	*	*	1500A
AC Voltage	1000V	±(1.0%+5d)	0.1mV	*	*	*	*	*
DC Voltage	1000V	±(0.5%+5d)	0.1mV	*	*	*		*
	1500V	±(1.0%+3)	1V	*			*	*
Resistance	60MΩ	±(1.0%+4d)	0.1Ω	*	*	*	*	*
Capacitance	6000μF	±(3.0%+5d)	0.01nF	*	*	*	*	6000μF
Electronic Frequency	100kHz	±(1.2%+3d)	0.01kHz	*	*	*	*	*
Temperature	1000ºC/1832ºF	±(3.0%+5d)	0.1/1ºC/ºF	*	*	*	*	*
Total Harmonic Distortion	99.9%	0.1%	±(3% + 10d)			*	*	
Harmonic distortion measurement	99.9%	0.1%	±(5% + 10d)			*	*	
Active Power	999.9KW		A.error x v.reading + V.error x A.reading			*	*	
Power Fartor	-1.0 ~ 0, 0 ~ 1.0		±(3% + 1d)			*	*	
Continuity check	Buzzer sounds at 50Ω							
Diode test	Test current <1.5mA Max 3V							

Size(HxWxD): 308mm x 97mm x 47mm **Weight:** 732g

Accessories: 1.5V AA x 3 batteries and Temperature probe (3398B/3398W), test leads, gift box with carrying case.

DT-3171

Milliamp Process Clamp Meter with 10μA Resolution

3171 Milliamp clamp meter measures mA signals for PLC and control system analog I/O, True RMS enables an accurate measurement for distorted waveforms.



Model 3171

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Features

High accuracy 0.5%
0.01 mA resolution and sensitivity
0.18 in or 4.5mm max. diameter of measurable conductor
Measuring 4 to 20 mA signals without “breaking the loop”
Measuring mA signals for PLC and control system analog I/O
Dual backlit display with both mA measurement and percent of 4 to 20 mA span
Measurement Spotlight illuminates where hard to see wires in dark enclosures
True RMS enables an accurate measurement for distorted waveforms.
Measuring 10 to 50 mA signals in older control systems by using the 99.9 mA range
Automatically change 4 to 20 mA output for remote testing
Power saving features, auto-off, backlight timeout extend battery life
Hold function captures and displays changing measurements

Specifications

Function	Range/ Resolution	Accuracy
AC Voltage (50Hz-400Hz)	300V	±(3.0%+5d)
DC Voltage	300V	±(2.0%+5d)
mA measurement	0 to 20.99 mA	0.5% + 5 counts
	21.0mA to 100.0 mA	1.5% + 5 counts
Continuity test	0 to 400K	

Size(HxWxD): 220mm x 55mm x 32mm **Weight:** 190g
Accessories: 2 x 1.5V “AA” batteries, Gift box with carrying case.

DT-3170 Milliamp Process Clamp Meter with 10μA Resolution

3170 Milliamp clamp meter measures mA signals for PLC and control system analog I/O, with extension cable for measurements in tight locations



Model 3170

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033





Features

High accuracy 0.5%
0.01 mA resolution and sensitivity
0.18 in or 4.5mm max. diameter of measurable conductor
Measuring 4 to 20 mA signals without “breaking the loop”
Measuring mA signals for PLC and control system analog I/O
Dual backlit display with both mA measurement and percent of 4 to 20 mA span
Measurement Spotlight illuminates where hard to see wires in dark enclosures
Detachable clamp with extension cable for measurements in tight locations
Measuring 10 to 50 mA signals in older control systems by using the 99.9 mA range
Automatically change 4 to 20 mA output for remote testing
Power saving features, auto-off, backlight timeout extend battery life
Hold function captures and displays changing measurements

Specifications

Function	Range/ Resolution	Accuracy
mA measurement	0 to 20.99 mA	0.5% + 5 counts
	21.0mA to 100.0 mA	1.5% + 5 counts

Size(HxWxD): 215mm x 55mm x 36mm **Weight:** 200g
Accessories: Gift box with carrying case & two “AA” 1.5V batteries.

DT-3070

AC/DC True RMS Fork Clamp Meter

A compact, sturdy, and durable true effective value fork clamp meter that can easily handle measurements in dense and narrow spaces such as combiner boxes/inverters/cables.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Features

100A AC/DC Current measurement
2000 Counts Digital display
True RMS
NCV Detection
Data Hold Function
Relative (ZERO) Mode
Display type (Negativity display)
Auto Power Off

Specifications

Function	Max Range	Basic Accuracy
Current DC	100A	±(2.5%+8d)
Current AC	100A	±(2.5%+8d)

Size(HxWxD): 210mm x 67mm x 38mm **Weight:** 190g
Accessories: 2x1.5V AAA batteries, Test leads, gift box with carrying case.





Model 3070

DT-3071 Milliamp Process Clamp Meter with 10μA Resolution

3071 Milliamp clamp meter measures mA signals for PLC and control system analog I/O, True RMS enables an accurate measurement for distorted waveforms.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Features

Auto Range, True RMS
50Hz to 400Hz Bandwidth
Continuity Buzzer, Low battery indication
Data Hold
Relative Mode
Display type(Negativity display)
Input Protection
Auto Power Off

Specifications

Function	Max Range	Basic Accuracy
Voltage DC	300V	±(2.0%+5d)
Voltage AC	300V	±(3.0%+5d)
Current DC	0 to ±20.99mA	±(0.3%+8 digits)
	±21.0mA to ±99.9mA	±(1.0%+8 digits)
Continuity check	Audible signal will sound if the resistance is less than 400KΩ (approx.)	

Size(HxWxD): 210mm x 67mm x 38mm **Weight:** 190g
Accessories: 9V battery, gift box with carrying case.





Model 3071

DT-9383W

AC/DC True RMS H&W analysis Clamp Meter

- *Fast response time*
- *True RMS*
- *TFT color LCD display*
- *PC Calibration*



Model 9383W

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Meterbox Pro

9383W AC/DC power quality True RMS clamp meters measure power and power factor, total harmonic distortion, individual harmonics, as well as AC/DC voltage, current, capacitance, inrush current analysis, and phase sequence. The low pass filter enables voltage and current measurements on variable frequency drives. It allows quick selection of the numerous measurement features on the large RGB display.

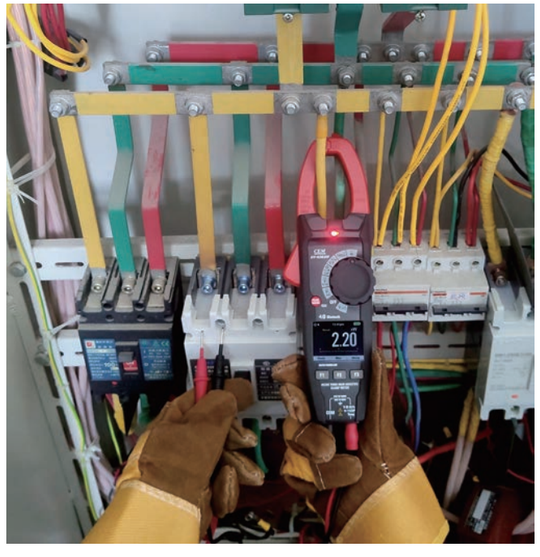
- Double molded plastic housing
- True RMS measurement for ACV & ACA
- Power and power factor harmonic distortion tester

Features

Current measurement
6000 counts display
1.8″ TFT color LCD
AC True RMS
Data Hold & Peak Hold
Max /Min Hold
REL (Zero) function
Flashlight and backlight
Auto power off
Low battery indication
100ms inrush current
Low input impedance prevents false readings due to “ghost voltage” (LoZ)
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
1.3″ (35mm) jaw opening
AC, AC+DC True RMS measurement & 1KHz ACV, ACA bandwidth
Logging function with trend capture for easy review of logged data
Analyze and record harmonics in digital or graphical form
NCV function
Bluetooth interface
THD measurement, Power measurement

Specifications

Function	Max Range	Basic Accuracy
AC True RMS Current	1000A	±(2.5%+8d)
DC Current	1000A	±(2.0%+5d)
DC Voltage	1000V	±(0.5%+2d)
AC True RMS Voltage	1000V	±(1.0% +5d)
Resistance	60.00MΩ	±(3.0%+5d)
Capacitance	100mF	±(2.5%+5d)
Frequency	10kHz	±(0.5%+2d)
Duty Cycle	0.5%~99.9%	+(1.2% +10d)
Temperature	-20°C~1000°C, -4 °F~1832°F	±(1.0%+3d)
Inrush Current	1000A	±(2.5%+2d)
Diode test	Forward DCA is approx.1mA, open circuit Voltage MAX. 3V	
Continuity check	Buzzer sounds at 50Ω	
Voltage and Current Harmonics		
Harmonic order Fundamental frequency (45Hz ~65Hz)	DC	±(5.0%+20d)
	1~25	±(5.0%+10d)
	THD%	±(8.0%+10d)
Power		
DC Power	999.9KW	±(3.5%+5d)
Active AC Power	999.9KW	±(2.0%+5d)
Apparent AC Power	999.9KWA	±(2.0%+5d)
Active Energy AC	999.9KWh	±(2.0%+5d)
Power Factor	-1.0 ~ 0, 0 ~ 1.0	±(3% + 1d)



Size(HxWxD): 250mm x 78mm x 40mm **Weight:** 350g

Accessories: Test leads, gift box with carrying case, Temperature probe and 1.5V AAA x 3 batteries.

DT-9812

1000A AC Leakage Current Tester

Features

Large tranceformer jaws of 68mm diameter makes it possible to clamp on all three or four wires (3 phases) together for leakage current measurement.
Frequency filter switch to eliminate the effect of the harmonics.
Measurement from mA up to AC 1000A
True RMS enables an accurate measurement for distorted waveforms.
Peak hold function
Data hold function: Allows for easy reading in dimly light or hard-to-reach locations
Large LCD display with backlight
International safety standard IEC61010-1 CAT III 600V

Specifications

Function	Range	Range	Accuracy(50/60Hz)	Accuracy(40~1kHz)
AC Current	200mA	0.1mA	±(1.5%+10d)	±(3.0%+10d)
	2A	1mA	±(1.5%+10d)	±(3.0%+10d)
	20A	10mA	±(1.5%+10d)	±(3.0%+10d)
	200A	100mA	±(2.0%+10d)	±(3.5%+10d)
	1000A	1A	±(5.5%+10d)	±(10%+10d)
AC Voltage	600V	0.1V	±(1.0%+5d)	
DC Voltage	600V	0.1V	±(1.0%+5d)	
Resistance	600Ω	0.1Ω	±(1.0%+5d)	
Continuity test	Threshold 40Ω, Continuity Beeper 2KHz			
Conductor size	Φ68mm max			
Frequency response	40Hz-1kHz			
Effect of external stray magnetic field Φ15mm 100A	10mA AC max			
Applicable standards	IEC 61010-1 CAT.III 600V IEC 61010-2-032			

Size(HxWxD): 250mm x 113mm x 45mm **Weight:** 490g

Accessories: Test leads, Gift box with carrying case and 9V battery.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 9812

DT-9810H Mini AC Leakage Current Tester with LPF Measurement

- Shielded transformer jaw opens to 1.2″ (30mm)
- 100μA high resolution
- Low pass filter (LPF) for accurate measurement
- Least affected by external magnetic field, providing wide measuring range from very small to large current
- Designed to safety standard IEC 61010-2-032: over-voltage CATIII 300V and pollution degree 2.
- Data hold function to allow for easy reading in dimly lit or hard-to-reach locations
- Dynamic range of 2000 counts full scale
- Auto power off

Specifications

Function	Resolution	Basic Accuracy
200mA	0.1mA	± (2.5% + 8d)
2A	1mA	± (2.5% + 8d)
200A	0.1A	± (2.5% + 8d)

Size(HxWxD): 182mm x 61mm x 34mm
Weight: 225g

Accessories:
Gift box with carrying case and 9V battery

EN 61010-1 CAT III 300V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 9810H

2000A Power Quality Clamp Meters with 80x80 InfraRed Thermal Imager





9583/9585 integrates clamp meter, power measurement, oscilloscope display, data recording and harmonic analysis into one measuring equipment, suitable for various on-site power testing, electronic circuit maintenance, network power quality evaluation, three-phase power measurement and harmonic analysis, using bright color display. Built-in power quality records, trend analysis, etc., convenient for users to measure and use.

Features

- 2.4″ TFT color 6000 counts display with 240x320 pixels for easy and clear viewing of images and readings
- Bulit-in Thermal imager feature quickly identifies hot spots without contact (9585)
- True RMS measurement for ACV / ACA / LoZ for ACV measurement
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- 1.4″ (37mm) Large jaw opening
- Flexible current probe (320B/320BS optional) expands the measurement range to 3000 ACA
- AC, AC+DC True RMS measurement & 1KHz ACV, ACA bandwidth
- Peak Voltage & Inrush current
- Min/Max/Avg with Time stemp (records signal fluctuations)
- With Bluetooth connect to phone App for documentation reporting and sharing
- Display waveform and trend graph
- Double molded plastic housing for safe testing and flashlight for dark location
- Harmonic failure analysis & Three-phase energy measurement
- Analyze and record harmonics in digital or graphical form

Specifications

Thermal Imager				**9583**	**9585**
IR resolution	80x80 pixels				*
Field of View (FOV)	21° x 21°				*
Thermal sensitivity/NETD	< 0.08°C /80mK				*
Image frequency	50Hz				*
Object temperature range	-20 to 260°C (-4 to 500°F)				*
Spectral range	8-14 µm				*
Color palettes	Iron/Rainbow/Grey/Grey Inverted/Feather				*
Accuracy	±2°C (±3.6°F) or ±2% of reading				*
True RMS Multimeter Functions					
Function	Maximum	Max. resolution	Best Accuracy		
Voltage DC	1500V	100mV	±(0.5% + 5d)	*	*
Voltage AC	1000V	100mV	±(1.2% + 5d)	*	*
Current DC	2000A	0.01A	±(2% + 8d)	*	*
Current AC	2000A	0.01A	±(2.5% + 5d)	*	*
Flexible A	3000A	0.01A	±(3.0%+5d)	*	*
Resistance	60MΩ	0.1Ω	±(0.8% + 5d)	600kΩ	*
Frequency	10kHz	0.01Hz	±(0.2% + 5d)	*	*
Inrush Current	2000A	1A		*	*
Temperature	1000ºC/1832ºF		±(1.5%+3ºC)	*	*
Diode & Continuity	Yes			*	*
Voltage and Current Harmonics					
Harmonic order Fundamental frequency (45Hz ~65Hz)	DC	±(5.0%+20d)		*	*
	H1~H25	±(5.0%+10d)		*	*
	H25~H30	±(10%+5d)		*	*
	THD%	±(8.0%+10d)		*	*
Power					
DC Power	999.9KW	±(3.5%+5d)		*	*
Active AC Power	999.9KW	±(2.0%+5d)		*	*
Apparent AC Power	999.9KWA	±(2.0%+5d)		*	*
Active Energy AC	999.9KWh	±(2.0%+5d)		*	*
Power Factor	-1.0 ~ 0, 0 ~ 1.0	±(3% + 1d)		*	*
Displacement power factor	0.3~1	±3°		*	*

Size(HxWxD): 95mm x 270mm x 42mm **Weight:** 550g
Accessories: Test leads, gift box with carrying case, Temperature probe Li-ion rechargeable battery, AC Charger

- *TFT color LCD display*
- *6000 counts*



Model 9585

Available on the App Store
Get it on Google play

EN 61010-1 CAT IV 600V
EN 61010-1 CAT III 1000V
TÜVRheinland ZERTIFIZIERT
GS geprüfte Sicherheit
www.tuv.com

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 9583

DT-3351/3352

1500A AC/DC True RMS Clamp Meters with Inrush Current Function

3351 are True RMS 1500A AC/DC Clamp Meters, 3352 is a True RMS Power Meter, which provide much more safe measurements with double molded plastic housing design. True RMS AC/DC voltage and current measurements, 40,000 counts and 0.1% basic DC voltage accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensures that readings are easy to read under all circumstances.

This series can test the current for motors, lighting, etc. is easy with their rush current function.

All inputs are protected by EN 610101-1 CATIV 600V/CATIII 1000V.

- *Peak Hold Function*
- *Inrush current measurement*

- *1500A True RMS*
- *40000 Counts(3351/3352)*

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

www.tuv.com

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



Model 3351



Model 3352



Features	3351	3352
Current measurement	AC/DC	AC/DC
Power clamp meter		*
LCD display counts	40000	40000
AC True RMS	*	*
Display with backlight	*	*
Inrush current measurement	*	*
Max /Min, Data Hold	*	*
REL (Zero) Function	*	*
Auto Power Off	*	*
Low battery indication	*	*
Analog Bargraph / 41 seg.	*	*
2.16” (55mm) Jaw opening	*	*
NCV Detection	*	*

Specifications				
Function	Max Range	Basic Accuracy	3351	3352
Current DC	1500A	±(2.0%+10d)	*	*
Current AC	1500A	±(2.8%+10d)	*	*
AC kW/kVA	900.0kW	±(3.0%+10d)	*	
(AC kW/kVA TRMS 0-600V, 0-1500A, 50/60Hz)				
DC kW/kVA	900.0kW	±(2.5%+10d)	*	
(DC kW/kVA 0-600V, 0-1500A, 50/60Hz)				
Power Factor	0.3~1	±(2.5%+10d)	*	
Voltage DC	1000.0V	±(0.1%+5d)	*	*
Voltage AC	750.0V	±(0.5%+5d)	*	*
Resistance	40.000MΩ	±(0.5%+4d)	*	*
Temperature	1000°C/ 1832°F	±(1.0%+1°C/1°F)	*	*
Capacitance	40.00mF	±(2.5%+5d)	*	*
Duty Cycle	10.0 to 95.0%	±(0.5%+2d)	*	*
Frequency	40.000MHz	±(1.2%+2d)	*	*
Inrush Current	1500A	±(1.5%+2d)	*	*
Continuity check	Buzzer sounds at 50Ω			
Diode test	Test current 0.3mA			

Size(HxWxD): 295mm x 100mm x 46mm
Weight: 537g

Accessories: Test leads, gift box with carrying case and 9V battery temperature probe.

DT-3349W/3349W-BT

1000A AC/DC Power Quality True RMS Clamp Meter

3349W/3349W-BT 1000A AC/DC power quality True RMS clamp meter measure power and power factor, total harmonic distortion, individual harmonics, as well as AC/DC voltage, current, capacitance, inrush current analysis, and phase sequence. The low pass filter enables voltage and current measurements on variable frequency drives. It allows quick selection of the numerous measurement features on the large LCD display.

- Double molded plastic housing
- True RMS measurement for ACV & ACA

- *True RMS*

- *Drop-proof to 2M*

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

www.tuv.com

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Features
True RMS
Non-contact voltage detection
Inrush current measurement for motors
Low pass filter for variable frequency drives
Continuity Beeper
Min, Max and Smart Data Hold, Peak hold
Auto torch-light when clamping
Large 10,000 count display with active backlight and analog bar graph
Auto Power Off
Maximum jaw opening 1.63″ (42mm)
CAT IV 600 V /CAT III 1000 V safety standard
Bluetooth interface (3349W-BT)
Meterbox iMM & cloud service

Specifications			
Function	Max Range	Max. Resolution	Basic Accuracy
AC True RMS Current	60.00A	100mA	±(2.5% +8d)
	1000A	1A	±(3% +8d)
DC Current	60.00A	100mA	±(2.5% +0.2A)
	1000A	1A	±(3% +8d)
DC Voltage	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	0.1mV	±(0.8% +20d)
AC True RMS Voltage	6.000V, 60.00V, 600.0V, 1000V	1mV	±(1.0% +5d)
Resistance	600.0Ω, 6.000kΩ, 60.00kΩ, 600.0kΩ, 6.000MΩ, 60.00MΩ	0.1Ω	±(1% +4d)
Capacitance	6.000nF, 60.00nF, 600.0nF, 6.000uF, 60.00uF, 600.0uF, 6000uF	1pF	+(5% +30d)
Frequency	6.000Hz, 60.00Hz, 600.0Hz, 6.000KHz, 60.00KHz, 600.0KHz, 10MHz	0.001Hz	+(1.0% +5d)
	10Hz to 10kHz, 40Hz to 100Hz		±(1.0% +5d)
Duty Cycle	0.5%~99.9%	0.1	+(1.2% +10d)
Temperature	-50°C~1000°C, -58 °F~+1832°F	0.1 °C/ °F	+(3% +5°C/ 9°F)
Total Harmonic Distortion	99.9%	0.1%	±(3% + 10d)
Harmonic distortion measurement	99.9%	0.1%	±(5% + 10d)
Active Power	999.9KW		A.error x V.reading + V.error x A.reading
Power Factor	-1.0 ~ 0, 0 ~ 1.0		±(3% + 1d)
Diode test	Forward DCA is approx.1mA, open circuit Voltage MAX . 3V		
Continuity check	Buzzer sounds at 50Ω		

Size(HxWxD): 230mm x 76mm x 40mm
Weight: 315g

Accessories:
Test leads, temperarure probe, gift box with carrying case, 9V battery.

Meterbox iMM Pro



Model 3349W



DT-3353
True RMS 1000A AC Watt Clamp Meter

3353 Professional True RMS 1000A AC Watt Clamp Meter provides accurate Watt, AC Current and Voltage readings regardless of waveforms.



Model 3353

Features

Analysis for Single Phase and Balanced 3 phase system
True RMS Value (Voltage and Current)
Large dual LCD Display with Backlight
USB interface
Data Hold , MIN / MAX measurement
True power / apparent power / power factor measurement
Auto Ranging & Auto Power Off
Overflow Indication
Manual Data Memory and Read (99 sets)
NCV Detection
2.16” (55mm) Jaw opening

Specifications

Function	Range	Basic Accuracy
AC Voltage	15V/100V/300V/750V	±(1.2%+5)
AC Current	40A/100A/400A/1000A	±(2%+5)
True Power	0.60kW—750kW	±(3%+5)
Apparent Power	0.60kVA—750kVA	±(3%+5)
Reactive Power	0.60kVAr—750kVAr	±(4%+20)of 15V/1000A else±(4%+5)
Power Factor	0.3-1	±(2%+20)
Phase Angle	0°-90°	±1°
Frequency	20Hz-200Hz	±(0.5%+5)
Energy	1-9999kWh	±(3%+2)

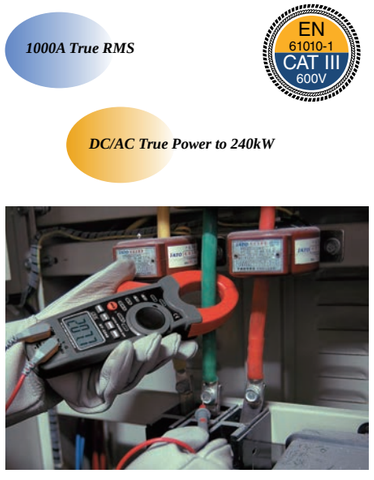
Size(HxWxD): 295mm x 100mm x 46mm
Weight: 537g
Accessories:
Test leads, gift box with carrying case, 9V battery, USB Cable and CD Software.

DT-3348 True RMS 1000A AC/DC Watt Clamp Meter



Model 3348

3348 Professional True RMS 1000A AC/DC Watt Clamp Meter provides accurate Watt, AC/DC Current and Voltage readings regardless of waveforms.



Features

True RMS AC Voltage and Current
DC and AC True Power to 240kW
1.2″(30mm) Clamp jaw opening
Electronic overload protection
Continuity buzzer & Diode check
Data Hold function
DCA Zero function
Auto Power Off
Low battery indication
AC/DC Current

Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
AC Current	1000 A	0.1A	±(2.5%+5d)
DC Current	1000 A	0.1A	±(3.0%+4d)
AC Voltage	600V	0.1mV	±(0.8%+2d)
DC Voltage	600V	0.1mV	±(1.0%+4d)
Resistance	40MΩ	0.1Ω	±(1.0%+4d)
Frequency	10MHz	0.01MHz	±(1.2%+3d)
AC Power	240kW	10W	±(3.0%+5d)
DC Power	240kW	10W	±(2.5%+5d)

Size(HxWxD): 229mm x 80mm x 49mm
Weight: 303g
Accessories:
Test leads, gift box with carrying case and 9V battery

DT-3399
True RMS 2000A AC/DC Watt Clamp Meter

Features

AC/DC Current
2″ (52mm) Clamp jaw opening
60,000 Counts LCD digital display
CAT IV 1000V Electronic overload protection
A AC+DC, V AC+DC True RMS measurements
Analog Bargraph/segments
Inrush current measurement & MAX/ MIN
Data Hold & Peak Hold function
Flash light & Black light function
DCA Zero function
NCV Detection
Auto Power Off & Low battery indication
THDf / THDr 25th harmonic
Phase rotation indication
Bluetooth data transmission
Low pass filter

Specifications

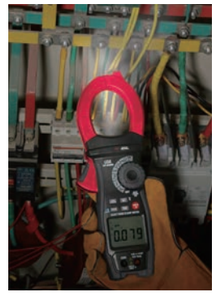
Function	Max Range	Basic Accuracy	Max. Resolution
AC Current	2000 A	±(2.5%+5d)	1A
DC Current	2000 A	±(3.0%+4d)	1A
AC Voltage	1000V	±(0.8%+2d)	0.1mV
DC Voltage	1000V	±(1.0%+4d)	0.1mV
Resistance	60MΩ	±(1.0%+4d)	0.1Ω
Capacitance	10mF	±(3.0%+5d)	0.01nF
Electronic Frequency	100kHz	±(1.2%+3d)	0.01kHz
Temperature	1000°C/1832°F	±(3.0%+5d)	1°C/°F
Total Harmonic Distortion	99.9%	0.1%	±(3% + 10d)
Harmonic distortion measurement	99.9%	0.1%	±(5% + 10d)
Active Power	999.9KW		A.error x v.reading + V.error x A.reading
Power Factor	-1.0 ~ 0, 0 ~ 1.0		±(3% + 1d)
Continuity check	Buzzer sounds at 50Ω		
Diode test	Test current <0.5mA Max 3V		

Size(HxWxD): 308mm x 97mm x 47mm **Weight:** 732g
Accessories: 1.5V AA x 3 batteries, Temperature probe, test leads and gift box with carrying case

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 1000V

www.tuv.com





Model 3399

DT-3355 Earth Ground Clamp Meter

Features

Large LCD display with backlight
Span of Jaw: 28mm for a long jaw; 32mm for a round jaw:
Protection Level: Double insulation
Structural Feature: In the jaw way
Range Shift: Automatic
External Magnetic Field: 40A/m
External Electric Field: 1V/m
Single Measuring Time: 1 second
Measurement Resistance Frequency: 1kHz
Maximum Resistance Measurement Resolution: 0.001 Ω
Resistance Measurement Range: 0.01-1000 Ω

Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
Resistance	0.01~1000Ω	0.001Ω	±(1.0%+10d)
Current	0 ~ 20 A	1mA	±(2.5%+2d)

Size(HxWxD): 288mm x 100mm x 95mm
Weight: 1154g (for long jaw); 1120g (for round jaw).
Accessories: Gift box with carrying case and 9V battery.

EN 61010-1 CAT III 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 3355

Earth Ground Clamp Meter



DT-9399
Earth Ground Clamp Meter

DT-9399 Earth Ground Clamp Meter is easy to use and high acuracy for testing the grounding components of equipment in hard-to-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes. Stay on line—identify ground loop resistance no need to disconnect and reconnect the earth electrode from the system.

Features

- Easy to use, highly accurate and an industry standard grounding components of equipment in hard-to-reach spaces.
- AC Leakage Current Measurement: Identify AC leakage without disconnecting your earth ground stake from the grounding system
- Rugged: Heavy-duty clamp jaw stay in alignment and calibration on tough jobsites Logging measurement.
- Saves up to 32,760 measurements in memory

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Meterbox Pro



Model 9399

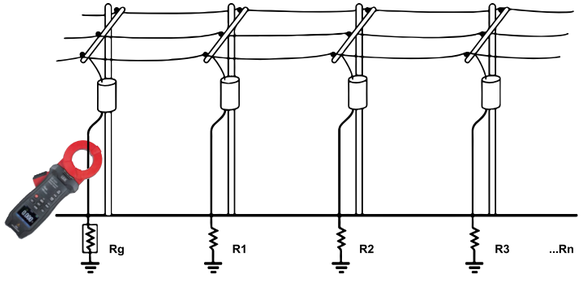
Specifications

Function	Range	Resolution	Accuracy
Earth ground loop resistance	0.025 Ω to 0.249 Ω	-	1.5% + 0.02 Ω
	0.250 Ω to 0.999 Ω	-	1.5% + 0.05 Ω
	1.000 Ω to 9.999 Ω	-	1.5% + 0.10 Ω
	10.00 Ω to 49.99 Ω	-	1.5% + 0.30 Ω
	50.00 Ω to 99.99 Ω	-	1.5% + 0.50 Ω
	100.0 Ω to 199.9 Ω	-	3.0% + 1.0 Ω
	200.0 Ω to 399.9 Ω	-	5.0% + 5.0 Ω
	400 Ω to 599 Ω	-	10.0% + 10 Ω
	600 Ω to 1500 Ω	-	20.00%
Earth ground leakage current mA	0.200 mA to 3.999 mA	1 μA	±2.0 % rdg ±0.05 mA
	4.00 mA to 39.99 mA	10 μA	±2.0 % rdg ±0.03 mA
	40.0 mA to 399.9 mA	100 μA	±2.0 % rdg ±0.3 mA
	0.400 A to 3.999 A	1 mA	±2.0 % rdg ±0.003 A
	4.00 A to 39.99 A	10 mA	±2.0 % rdg ±0.030 A
Display Reading Specification with Loop Resistance Standard	Input (Ω)	Maximum	Minimum
	0.474	0.531	0.417
	0.5	0.558	0.443
	10	10.45	9.55
	100	104.0	96

Size(HxWxD): 288mm x 95mm x 45mm **Weight:** 1260g

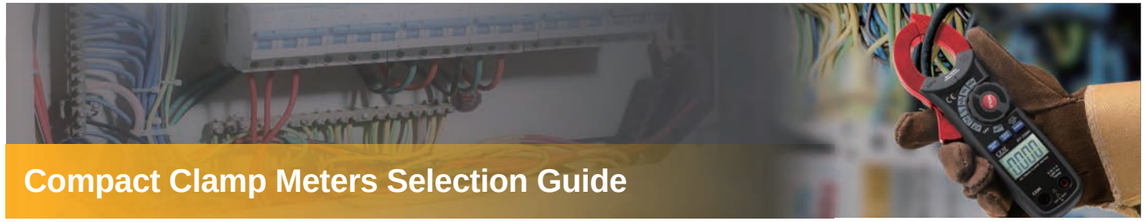
Accessories: Gift box with carrying case and 9V battery.





Compact AC, AC/DC Autoranging Clamp Meters





Compact Clamp Meters Selection Guide



400A AC, AC/DC True RMS Clamp Meter P227

DT-9180A Series clamp meters provide fast A/D converting sampling time, high accuracy, offer all needed features for measurement. It is with modern design for perfect handhold and tight place testing. A large backlit display is easy to see and a handy data hold keeps measurements on the display.



1000A AC/DC True RMS Autoranging Clamp Meter P230

DT-356H offer all needed features for measurement, is designed to perform in the toughest environment and provide noisy-free, reliable results, to help you diagnose all kinds of electrical problems. Its compact design is well suitable for perfect handhold and measurement in tight and crowd place. True RMS measurement is for accurate reading of non-linear signals. Commercial and residential electricians use it to verify the present of load current, continuity of circuit, switches, fuse and contacts.



Compact AC, AC/DC Autoranging Clamp Meters P236

DT-371 series clamp meters offer all needed features for measurement. They have small bodies and jaws design for perfect handhold and tight place testing. A large backlit display is easy to see and a handy display hold keeps measurements on the display.



Mini AC, AC/DC Clamp Meters P234

FC-21/22 are compact mini amp clamp meters. They are specifically designed to reach into very small areas and has a very low-current sensitivity. This amp clamp performs essential troubleshooting tasks in plant maintenance, electrical, HVAC, and telecom work as well as residential, automotive, fleet maintenance, marine, and motorcycle electrical repair.



Pocket sized, convenient-to-use AC current clamp-on Adaptor P241

CP-09 is the ideal tool to extend the current ranges for all Multimeters.
The CP-09 is a 200A AC current clamp-on adaptor with voltage output via a standard banana inputs to be connected to multimeters.

DT-9180A/9180B/9180H

Compact 400A AC True RMS Clamp Meters



The 9180A Series clamp meters providing fast A/D converting sampling time, high accuracy, offer all needed features for measurement. It is with modern design for perfect handhold and tight place testing. A large backlit display is easy to see and a handy data hold keeps measurements on the display.

- True RMS measurement for ACV & ACA



Model 9180A

400A AC True RMS Clamp Meters

True RMS

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT II 1000V



Features

	9180A	9180B	9180H
Current measurement	AC	AC	AC
Display counts	2000	4000	4000
AC True RMS	*	*	*
Low pass filter (VFD)		*	
Data Hold	*	*	*
Peak Hold /MAX/ MIN	MAX/ MIN	MAX/ MIN	MAX/ MIN
REL (Zero) Function		*	
Flashlight and Backlight	*	*	*
Auto Power Off	*	*	*
Low battery indication	*	*	*
1.18” (30mm) Jaw opening	*	*	*
NCV Function	*	*	*

Specifications

Function	Max Range	Basic Accuracy	9180A	9180B	9180H
Voltage DC	1000V	±(0.5%+2d)	600V	*	600V
Voltage AC	1000V	±(1.0%+5d)	600V	*	600V
Voltage VFD	600V			*	
Current AC	400.0A	±(2.5%+8d)	*	*	*
Resistance	40MΩ	±(3.0%+5d)	*	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)			*
Capacitance	100mF	±(2.5%+5d)		*	4mF
Frequency	ACV 10kHz	±(0.5%+2d)		*	*
Diode test	Test Current <0.5mA MAX 3V		2V	*	2V
Continuity check	Buzzer sounds at 50Ω				

Size(HxWxD): 225mm x 72mm x 40mm
Weight: 294g
Accessories: Test leads, gift box with carrying case, Temperature probe (9180H) and 1.5V AAA x 3 batteries



Model 9180H
(Single molded plastic housing)

DT-333H/335A/335H/336H

Compact 400A AC, AC/DC True RMS Clamp Meters



The 333H Series clamp meters provide fast A/D converting sampling time, high accuracy, offer all needed features for measurement. It is with modern design for perfect handhold and tight place testing. A large backlit display is easy to see and a handy data hold keeps measurements on the display. The turntable can be rotated for easy two-hand operation.

- Single molded plastic housing
- True RMS measurement for ACV & ACA

400A AC, AC/DC True RMS Clamp Meters

True RMS

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 333H

Features

	333H	335A	335H	336H
Current measurement	AC	AC	AC/DC	AC/DC
Display counts	2000	4000	4000	4000
AC True RMS	*	*	*	*
Low pass filter (VFD)				*
Data Hold	*	*	*	*
MAX/ MIN	*	*	*	*
REL (Zero) Function		*	*	*
Backlight/ Auto Backlight	*	Backlight	Backlight	Backlight
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
1.18” (30mm) Jaw opening	*	*	*	*
NCV Function	*	*	*	*
Live test		*	*	*

Specifications

Function	Max Range	Basic Accuracy	333H	335A	335H	336H
Voltage DC	600V	±(0.5%+2d)	*	*	*	*
Voltage AC	600V	±(1.0%+5d)	*	*	*	*
Voltage VFD	600V					*
Current DC	400.0A	±(2.0%+5d)			*	*
Current AC	400.0A	±(2.5%+8d)	*	*	*	*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	*	*	*
Temperature	1000ºC/ 1832ºF	±(1.0%+3d)		*	*	*
Capacitance	100mF	±(2.5%+5d)		4mF	*	*
Frequency	ACV 100kHz	±(0.5%+2d)		10KHz	*	*
Diode test	Test Current <0.5mA MAX 3V		2V	2V	2V	*
Continuity check	Buzzer sounds at 50Ω					

Size(HxWxD): 125mm x 65mm x 38mm
Weight: 284g
Accessories: Test leads, gift box with carrying case, Temperature probe (335H/336H) and 1.5V AAA x 3 batteries





Model 335H

DT-350H/351H/352

Compact AC,AC/DC Autoranging Clamp Meters

350H series clamp meters offer all the features you need to fit the way you work. The small bodies and jaws fit perfectly in your hand and into tight places. Slender housing design is good to measure by one hand. A large backlit display (on most models) is easy to see and a handy display hold keeps measurements on the display. Measuring starting current for motors, lighting, etc.

- Double molded plastic housing
- Auto Power Off

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

TÜVRheinland ZERTIFIZIERT
www.tuv.com
ID 1419032229



Model 350H



Model 351H

Features

	350H	351H	352
Current measurement	AC	AC/DC	AC
LCD display counts	4000	4000	2000
AC True RMS	*	*	*
Data Hold	*	*	*
REL(Zero) Function	*	*	
Auto Power Off	*	*	*
Low battery indication	*	*	*
1.2"(30mm) Jaw opening	*	*	*
NCV Detection	*	*	*

Specifications

Function	Max. Range	Max Resolution	Best Accuracy	350H	351H	352
Voltage DC	600V	100μV	±(0.5%+8d)	*	*	*
Voltage AC	600V	1mV	±(1.2%+3d)	*	*	*
Current DC	400A	10mA	±(2.5%+5d)		*	
Current AC	400A	10mA	±(2.5%+5d)	*	*	1mA
Resistance	40MΩ		±(2.0%+3d)	*	*	20MΩ
Temperature	760ºC/1400ºF		±(1.5%+5d)	*	*	*
Capacitance	4mF		±(3.0%+5d)	*	*	
Frequency	10kHz		±(1.2%+5d)	*	10kHz	
Continuity check	Buzzer sounds at 50Ω					
Diode test	Test current 0.5mA					



Size(HxWxD): 198mm x 66mm x 36mm
Weight: 230g

Accessories: Test leads, gift box with carrying case, temperature probe and two"AAA"1.5V batteries.

DT-355/355H/355W/356/356H/356W/357

Professional AC, AC/DC True RMS Autoranging Clamp Meters

The 355 series clamp meters offer all needed features for measurement. They are small bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy display hold keeps measurements on the display.

True RMS

TÜVRheinland ZERTIFIZIERT
www.tuv.com
ID 1419032229

- Double molded plastic housing
- True RMS measurement for ACV & ACA
- Auto Power Off

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Features

	355	355H	356	356H	357	355W	356W
Current measurement	AC	AC	AC/DC	AC/DC	AC/DC	AC	AC/DC
LCD display counts	6000	6000	6000	6000	40000	6000	6000
AC True RMS	*	*	*	*	*	*	*
Display with backlight	*	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*	*
Max /Min	*	*	*	*	*	*	*
REL (Zero) Function	*	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*
Analog Bargraph / 61 seg.	*	*	*	*	*	*	*
1.57" (40mm) Jaw opening	*	*	*	*	*	*	*
NCV Detection	*	*	*	*	*	*	*
USB interface						*	*
Wireless transmitter						433MHz	915MHz
Receive sensitivity						-109dBm	
Communication distance						≤ 100m	

Specifications

Function	Max Range	Basic Accuracy	355/355W	355H	356/356W	356H	357
Voltage DC	600V	±(0.5%+1d)	*	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*	*
Current DC	1000A	±(2.0%+5d)			*	*	*
Current AC	1000A	±(2.8%+8d)	*	*	*	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*	*	*	*
Temperature	760ºC/ 1400ºF	±(3.0%+3d)	*	*	*	*	*
Capacitance	4000uF	±(2.5%+5d)	*	4mF	*	4mF	*
Frequency	10kHz	±(1.2%+2d)	*	*	*	*	*
Inrush Current	600A	±(1.5%+2d)					
Continuity check	Buzzer sounds at 50Ω						
Diode test	Test current 0.3mA						



Model 356



Model 356H

Size(HxWxD): 230mm x 76mm x 40mm
Weight: 315g

Accessories: Test leads, gift box with carrying case, temperature probe and 9V battery.
USB cable and Software(355W/356W)





DT-360/361/362/363

Compact AC, AC/DC Autoranging Clamp Meters



Model 360

EN 61010-1 CAT III 1000V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

True RMS (363)

TÜVRheinland ZERTIFIZIERT
www.tuv.com
ID 1419032229

The 360 series clamp meters offer all needed features for measurement. They are small bodies and jaws designed for perfectly handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy Display Hold keeps measurements on the display.

- Double molded plastic housing
- Inrush current function (366 only)
- Auto Power Off



Model 362



Model 363



Features

	360	361	362	363
Current measurement	AC	AC	AC/DC	AC/DC
Max. Resolution	1mA	1mA	10mA	10mA
LCD display counts	2000	4000	4000	4000
AC True RMS				*
Display with backlight	*	*	*	*
Data Hold	*	*	*	*
Max Hold	*			
Zero Function			*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
Peak Current				*
1.2” (30mm) Jaw opening	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	360	361	362	363
Voltage DC	600V	±(0.5%+1d)	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*
Current DC	400A	±(2.0%+5d)			*	*
Current AC	400A	±(2.5%+4d)	*	*	*	*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	*	*	*
Temperature	1000ºC/1832ºF	±(3.0%+3d)		*	*	*
Capacitance	100uF	±(2.5%+5d)			*	40mF
Frequency	10MHz	±(1.2%+2d)			*	*
Continuity check	Buzzer sounds at 50Ω					
Diode test	Test current 0.3mA					

Size(HxWxD): 197mm x 70mm x 40mm
Weight: 183g

Accessories: Test leads, gift box with carrying case, Temperature probe(361,362, 363 only) and 9V battery.

DT-370/370T

Heavy Duty 200A AC Open-Jaw Clamp Meter

370 clamp meter offers all needed features for measurement. They are small bodies and jaws designed for perfectly handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy Display Hold keeps measurements on the display.

EN 61010-1 CAT III 600V

Heavy Duty housing design

Drop-proof to 2M
True RMS (370T)

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 370

Features

	370	370T
200A AC Current measurement	*	*
Digital display counts	4000	6000
Compact size	*	*
REL Function	*	*
Data Hold	*	*
Backlit Controls	*	*
Low battery indication	*	*
17mm Jaw opening	*	*
Auto sense Voltage		*
NCV	*	*
Low Z & True RMS		*

Specifications

Function	Max Range	Basic Accuracy	370	370T
Voltage DC	600V	±(1.5%+3d)	*	*
Voltage AC	600V	±(1.2%+3d)	*	
		±(0.9%+5d)		*
Current AC	200A	±(3.5%+5d)	*	*
Resistance	40MΩ	±(3.0%+5d)	*	60Meg
Temperature	760ºC/ 1400ºF	±(3.0%+3d)	*	
	1000ºC/ 1832ºF	±(3.0%+3d)		*
Capacitance	100uF	±(2.5%+5d)	*	6000uF
Frequency	10MHz	±(1.2%+2d)	*	*
Low Z	>150K			*
Continuity check	Buzzer sounds at 50Ω			
Diode test	Test current 0.3mA			

Size(HxWxD): 230mm x 82mm x 40mm **Weight:** 230g
Accessories: Test leads, gift box with carrying case, temperature probe and Two“AAA”1.5V batteries.

DT-380/381/382/383 Compact AC, AC/DC Autoranging Clamp Meters

The 380 series clamp meters offer all the features you need to fit the way you work. The small bodies and jaws fit perfectly in your hand and reach into tight places.

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 383

Features

	380	381	382	383
Current measurement	AC	AC	AC/DC	AC/DC
LCD display counts	2000	4000	2000	4000
Data Hold	*	*	*	*
REL (Zero) Function			*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
1.2″ (30mm) Jaw opening	*	*	*	*
NCV Detection	*	*	*	*
Flashlight	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	380	381	382	383
Voltage DC	600V	±(0.5%+1d)	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*
Current DC	400A	±(2.0%+5d)			200A	*
Current AC	400A	±(2.5%+4d)	*	*	200A	*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	*	20MΩ	*
Temperature	1000ºC/ 1832ºF	±(3.0%+3d)	*	*	*	*
Capacitance	100uF	±(2.5%+5d)		*		*
Frequency	10MHz	±(1.2%+2d)		10kHz		10kHz
Continuity check	Buzzer sounds at 50Ω					
Diode test	Test current 0.3mA					

Size(HxWxD): 230mm x 82mm x 40mm
Weight: 230g

Accessories:
Test leads, gift box with carrying case, temperature probe and Two“AAA”1.5V batteries.

FC-37H

100A AC/DC Clamp Meter with AC Current measurement from 0.1mA

600.0mA AC Current



Model FC-37H

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032\

EN 61010-1 CAT II 600V

The FC-37H is a CAT III 300V, 6000 count True RMS 100A AC/DC digital milli-amp clamp meter with a resolution of 1mA. The FC-37H has a compact design, high reliability and safety and provides fast sampling time with high accuracy and all readings are indicated on a backlit LCD display. The meter measures 600V AC/DC, capacitance, resistance measurements, a continuity buzzer and a diode test function. The VFC function allows the user to measure stable voltage in high frequency applications of Variable Frequency Drives. Added features include Zero/Relative mode for Capacitance Zero, resistance, DCV, ACV, DCA and ACA offset adjustment and Non-Contact voltage detection. Housed in a modern double moulded rubber housing.

Features

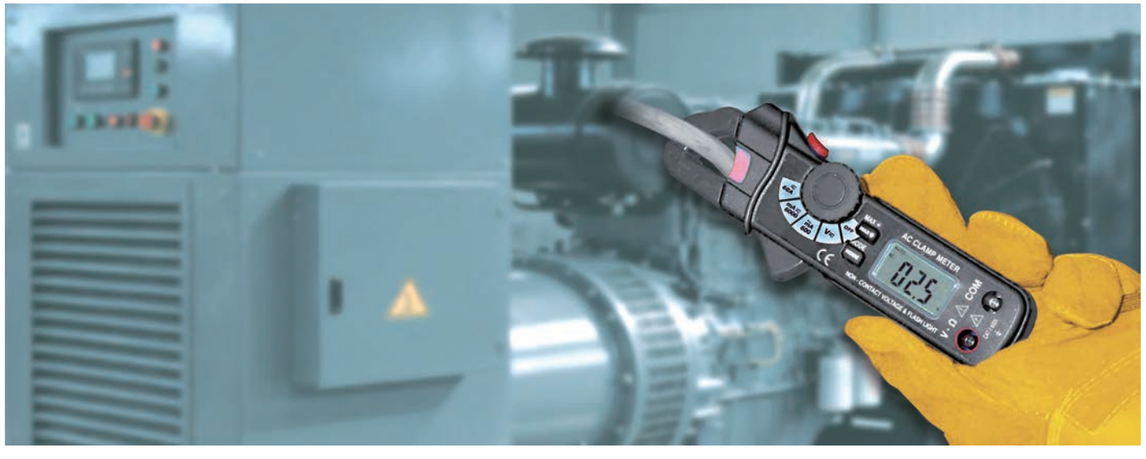
- AC Current measurement from 0.1mA
- Measures AC and DC current to 100A
- 0.7” Cable Clamp size
- 6000 count backlit LCD display
- Measurement of DC voltage and AC voltage up to 600V
- Capacitance to 60mF
- VFC – Variable Frequency Drive voltage value
- Microprocessor Zero adjustment
- NCV – Non-Contact Voltage Detector
- Continuity buzzer and Diode Test
- Data Hold function
- Auto Power Off

Specifications

Function	Max Range	Max. Resolution	Best Accuracy
AC Current	600.0mA	0.1mA	±(2.5%+10d)
	6000mA	10mA	±(2.5%+8d)
	60.00A	100mA	±(2.5%+5d)
DC Current	6000mA	100mA	±(2.8%+8d)
	60.00A	100mA	±(3.0%+8d)
Frequency	40~51Hz	0.01Hz	±(1.2%+5d)
	51~510Hz	0.1Hz	±(1.2%+3d)
	0.51~1kHz	0.001kHz	±(1.2%+3d)
Voltage DC	600.0V	0.1V	±(0.5%+1d)
Voltage AC	600.0V	0.1V	±(1.5%+2d)
Resistance	60MΩ	0.1Ω	±(3.0%+5d)
Capacitance	60mF	1pF	±(5.0%+5d)
Diode	Open circuit voltage 1.5V, Test current 0.3mA		
Continuity	Buzzer sounds at 100Ω		
Non-contact Voltage detection : 100~600VAC			

Size(HxWxD): 178mm x 65mm x 32mm **Weight:** 170g

Accessories: Test leads, clamshell with carrying case and Two “AAA”1.5V batteries.



FC-31/32/33/35/36/37

3 in 1 Mini AC, AC/DC Clamp Meter

The FC-31/32/33 Series are designed to verify the presence of load current, Non-contact voltage and flashlight, etc. The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032\

EN 61010-1 CAT II 600V

Non-Contact Voltage Detector

- *Flashlight*
- *Digital Clamp Meter*

Features

	31	32	33	35	36	37
True RMS					*	*
AC/DC Voltage, Resistance, Continuity, Diode check				*	*	*
Digital display counts	2000	2400	2400	2000	2000-9999	6000
0.7″ Jaw opening	*	*	*	*	*	*
Non-contact Voltage detector and Flashlight	*	*	*	*	*	*
AC Current		*	*	*	*	*
DC Current		*	*		*	*
Data Hold function	*	*	*		*	*
MAX/MIN function	MAX			MAX	*	*
DCA Zero function		*	*		*	*
Peak Hold function					*	
Auto Power Off	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*
Backlight Display		*	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution	31	32	33	35	36	37
AC Current	2A	±(3.0%+8d)	1mA			*			600mA
	20A	±(3.0%+8d)	10mA	*					6000mA
	80A	±(3.0%+8d)	100mA			*			60.00A
	200A	±(3.0%+8d)	100mA	*	*		*	*	
DC Current	2A	±(2.8%+8d)	1mA			*			
	80A	±(2.8%+8d)	100mA			*			6000mA
	200A	±(3.0%+8d)	100mA		*			*	60.00A
Frequency	40~51Hz	±(1.2%+5d)	0.01Hz		*				
	51~510Hz	±(1.2%+3d)	0.1Hz		*				
	0.51~1kHz	±(1.2%+3d)	0.001kHz		*				
Voltage DC	600V	±(0.5%+1d)					0.2-600V auto	600.0V	600.0V
Voltage AC	600V	±(1.5%+2d)					0.2-600V auto	600.0V	600.0V
Resistance	20MΩ	±(3.0%+5d)					0.2k-20MΩ auto	999.9Ω	60MΩ
Diode	Open circuit voltage 1.5V, Test current 0.3mA (FC-35 only)								
Continuity	Buzzer sounds at 100Ω (FC-35/36/37 only)								
Non-contact Voltage detection : 100~600VAC									



Model FC-37



Model FC-33





Size(HxWxD): 178mm x 65mm x 32mm **Weight:** 170g

Accessories: Test leads, clamshell with carrying case and Two “AAA”1.5V batteries.

FC-21/22 Mini AC, AC/DC Clamp Meters



Model FC-21

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model FC-22

Features

	FC-21	FC-22
Current measurement	AC	AC/DC
Inrush current measurement		*
Data Hold	*	*
DC zero function		*
Backlit LCD display	*	*
Non-contact AC voltage detection	*	*
Auto Power OFF	*	*

Specifications

Function	Max Range	Resolution	Basic Accuracy	FC-21	FC-22
AC Current 50/60 Hz True RMS	40.00A AC	0.01A	± (3.5% + 10d)	*	*
	400.0A AC	0.1A	± (2.8% + 8d)	*	*
AC Current 400 Hz True RMS	40.00A AC	0.01A	± (2.8% + 10d)	*	*
	400.0A AC	0.1A	± (2.8% + 8d)	300A	*
DC Current	40.00A DC	0.01A	± (2.5% + 10d)		*
	400.0A DC	0.1A	± (2.8% + 8d)		*

Size(HxWxD):153mm x 57mm x27mm **Weight:** 138g

Accessories: clamshell & 2 x “AAA” batteries

DT-337/338/339

Mini AC/DC Clamp Meter

The 339 is new designed to verify the presence of load current, voltage and resistance, etc. The small body and jaw fit perfectly in your hand and a large backlit display is easy to read.

Test lead mA range with high 1mA resolution for HVAC and Process control applications
Data Hold freeze the displayed value
Auto Power Off

High Resolution

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 337



Model 338



Model 339

Features

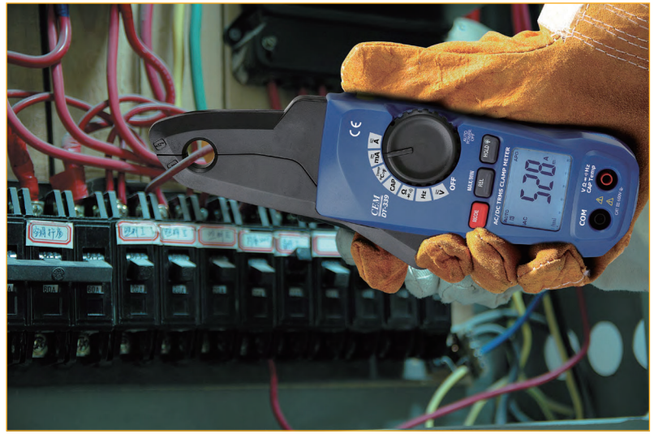
	337	338	339
Small jaw size	0.5″	0.8″	0.7″
1mA high resolution	*	*	*
True RMS AC clamp-on multimeter		*	*
Type K Temperature function		*	*
Digital clamp meter for AC/DC current measurement	*	*	*
Providing wide measuring range from very small to large current	*	*	*
Designed to safety standard IEC 61010-2-032: CAT III 600V and pollution degree 2.	*	*	*
Display counts	4000	4000	5000
Auto power off & Data hold function	*	*	*
Peak hold ,Max/Min hold and Relative functions		*	Max/Min
Advanced functions include Capacitance, Frequency		*	*
Flashlight			*

Specifications

Function	Max. Range	Max. Resolution	Basic Accuracy	337	338	339
Current AC	80A	1mA	±(2.5%+5d)	*	*	*
Current DC	80A	1mA	±(2.5%+4d)	*	*	*
Voltage AC	400mV~600V	0.1mV	±(2.0%+4d)	*	*	*
Voltage DC	400mV~600V	0.1mV	±(1.5%+3d)	*	*	*
Resistance	400Ω~40MΩ	0.1Ω	±(1.5%+2d)	*	*	*
Frequency	5Hz~10MHz	0.001Hz	±(1.2%+3d)	*	*	*
% Duty	5%~99.9%	0.1%	±(1.2%+3d)	*		
Capacitance	40mF	0.001nF	±(3.5%+10d)	100uF	*	500.0uF
Temperature	-20℃~760℃	0.1 ℃	±(2.0%+3℃)		*	*
	-4 ℉~1400 ℉	0.1 ℉	±(2.0%+ 3℉)		*	*
Diode Check	Test current of 0.3mA			*	*	*
Continuity Check	Threshold 50Ω			*	*	*

Size(HxWxD): 210mm x 70mmx 37mm
Weight: 200g

Accessories:
Test leads, Gift box with carrying case, 9V battery.



DT-371/371B/371BL/372/372H/373/373H/375/375BT

Compact AC, AC/DC Autoranging Clamp Meters

The 371 series clamp meters offer all needed features for measurement. They are with small bodies and jaws designed for perfectly handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy Display Hold keeps measurements on the display.

- Double molded plastic housing
- Auto Power Off

True RMS (372H/373H/375/375BT)

1.2” (30mm) Jaw opening



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032

EN 61010-1 CAT III 600V

TÜVRheinland ZERTIFIZIERT
GS geprüfte Sicherheit
www.tuv.com



Model 371



Model 373

Features

	371	371B	371BL	372	372H	373	373H	375	375BT
Current measurement	AC	AC	AC	AC	AC	AC/DC	AC/DC	AC/DC	AC/DC
Max. Resolution	1mA	1mA	1mA	1mA	10mA	10mA	10mA	10mA	10mA
LCD display counts	2000	2000	2000	4000	4000	4000	4000	4000	6000
AC True RMS	*				*		*	*	*
Display with backlight	*	*	*	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*	*	*	*
Max Hold	*				*		*	*	*
Zero Function						*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*	*	*
Bluetooth									*
1.2″ (30mm) Jaw opening	*	*	*	*	*	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	371	371B	371BL	372	372H	373	373H	375	375BT
Voltage DC	600V	±(0.5%+1d)	*	*	*	*	*	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*	*	*	*	*	*
Current DC	400A	±(2.0%+5d)						*	*	*	*
Current AC	400A	±(2.5%+4d)	*	*	*	*	*	*	*	*	*
Flexible A	3000A	±(3.0%+5d)									*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	20MΩ	20MΩ	*	*	*	*	*	60MΩ
Temperature	1000℃/1832℉	±(3.0%+3d)		*			*		*	*	*
Capacitance	100uF	±(2.5%+5d)					4000μF	*	4000μF	4000μF	6000μF
Frequency	10MHz	±(1.2%+2d)				*	10kHz	*	10kHz	*	*
Continuity check	Buzzer sounds at 50Ω		*	*	*	30Ω	50Ω	30Ω	50Ω	*	*
Diode test	Test current 0.3mA		*	*	*	*	*	*	*	*	*

Size(HxWxD): 197mm x 70mm x 40mm
Weight: 183g
Accessories: Test leads, gift box with carrying case, temperature probe(371B,372H/373H/ 375, 375BT only), 1.5Vx2 “AAA” batteries.

Bluetooth



Model 375BT

DT-3340/3341/3343

1000A AC, AC/DC Clamp Meters

1000A AC, AC/DC Clamp Meter

1.2" (30mm) Clamp jaw opening

3340 Series Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

- Electronic overload protection
- Data Hold function
- DCA Zero function
- Low battery indication
- Auto Power Off



Model 3341

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

TÜVRheinland ZERTIFIZIERT
www.tuv.com
ID 1419032229

GS geprüfte Sicherheit

Features	3340	3341	3343
Digital display counts	2000	4000	4000
AC/DC Current	AC	AC	AC/DC
1.2″ (30mm) Clamp jaw opening	*	*	
Electronic overload protection	*	*	*
Continuity buzzer & Diode check	*	*	*
Data Hold function	*	*	*
DCA Zero function			*
MAX Hold function	*		
Auto Power Off	*	*	*
Low battery indication	*	*	*

Specifications						
Function	Max Range	Basic Accuracy	Max. Resolution	3340	3341	3343
AC Current	1000 A	±(2.5%+5d)	10mA	*	*	*
DC Current	1000 A	±(3.0%+4d)	10mA			*
AC Voltage	600V	±(0.8%+2d)	0.1mV	*	*	*
DC Voltage	600V	±(1.0%+4d)	0.1mV	*	*	*
Resistance	40MΩ	±(1.0%+4d)	0.1Ω	20M	*	*
Capacitance	40mF	±(3.0%+5d)	0.01nF		100μF	100μF
Frequency	10MHz	±(1.2%+3d)	0.01MHz		*	100kHz
Duty Cycle	99.9%	±(1.2%+3d)	0.1%		*	*
Temperature	1000ºC 1832ºF	±(3.0%+5d)	1ºC/ºF		*	*





Size(HxWxD): 229mm x 80mm x 49mm
Weight: 303g
Accessories: Test leads, gift box with carrying case, 9V battery; two "AAA" batteries(3340) and temperature probe (3341/3343)

DT-330H Series

Mini AC, AC/DC Autoranging Clamp Meters

The 330H series are designed to verify the presence of load current, voltage and resistance, etc. The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

Features	330H	331H	332/332T	333/333T	335	336
Max. Resolution to	AC	AC	AC/DC	AC/DC	AC	AC/DC
Current measurement	1mA	10mA	10mA	10mA	0.1uA	0.1uA
LCD display counts	2000	4000	4000	4000	4000	4000
AC True RMS	*	*	332T	333T		
Display with backlight	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*
Max Hold	*	*				
Zero Function			*	*	*	*
0.9″ (23mm) Jaw size	*	*	*	*	*	*

Specifications								
Function	Max Range	Basic Accuracy	330H	331H	332	333	335	336
Voltage DC	600V	±(0.5%+1d)	*	*	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*	*	*
Current DC	400A	±(2.5%+5d)			*	*		
Current AC	400A	±(3.0%+4d)	*	*	*	*	*	*
Resistance	20MΩ	±(3.0%+5d)	*	40MΩ	40MΩ	40MΩ	40MΩ	40MΩ
Temperature	1000ºC/1832ºF	±(3.0%+3d)		*		*	*	
Capacitance	100uF	±(2.5%+5d)		4mF	*	*	*	*
Frequency	150KHz	±(1.2%+2d)		10kHz	*	*	*	
	10MHz							*
Continuity	Buzzer sounds at 100Ω		50Ω	50Ω	*	*	*	*
Diode	Test current 0.3mA; Open circuit voltage 1.5V		*	*	*	*	*	*



Model 330H

EN 61010-1 CAT III 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Size(HxWxD): 205mm x 70mm x 37mm **Weight:** 200g

Accessories: Test leads, gift box with carrying case, temperature probe (331H, 333, 335 only) and Two "AAA" 1.5V batteries.

DT-9809 AC Leakage Current Tester

AC leakage current tester 9809 is a multifunction clamp meter with very good resolution of 10uA. It is very useful for power system to check and installation. With the measuring range up to 100A, this tester is great for appliance installation or for car applications

- 10uA high resolution
- Large $3^3/4$ (4000 counts) LCD display
- Auto Power Off
- Shielded transformer jaw opens to 1.2″
- Max/Min, Data Hold, Low battery indication
- Overload protection

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Specifications			
Function	Range	Resolution	Basic Accuracy
Current AC	40mA~100A	10uA~100mA	±(2.0%+3d)
Voltage AC	400V	0.1V	±(1.5%+10d)
Resistance	40~400Ω	0.1Ω	±(1.0%+2d)
Continuity Test	Threshold 40Ω, Continuity Beeper 2.5KHz		
1.2″ (30mm) Clamp jaw opening			



Size(HxWxD): 209mm x 43mm x 30mm
Weight: 200g

Accessories: Test leads, holster, gift box with carrying case, 9V battery

DT-3309/3310/3311/3312/3313/3315/3316/3316H

2000A AC,AC/DC Clamp Meters



Model 3311 **Model 3312** **Model 3315**

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



3309 Series Professional 1000A/2000A AC, AC/DC Clamp Meters provide many functions for professional AC current and voltage measurements including resistance, capacitance and diode test, etc. With mid-size and tear-drop shaped jaw, it is easy to use in crowded cable areas and other tight places.

Features

	3309	3310	3311	3312	3313	3315	3316	3316H
Current measurements	AC	AC	AC	AC	AC/DC	AC/DC	AC/DC	AC/DC
True RMS measurements	*					*		
Digital display counts	2000	4000	4000	4000	4000	4000	4000	4000
Electronic overload protection	*	*	*	*	*	*	*	*
Continuity buzzer & Diode check	*	*	*	*	*	*	*	*
Data Hold function	*	*	*	*	*	*	*	*
Peak Hold							*	*
MAX/MIN	*							
DCA Zero function					*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*	*
Display with backlight	*	*	*	*	*	*	*	*
2.16″ (55mm) Clamp jaw opening	*	*	*	*	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution	3309	3310	3311	3312	3313	3315	3316	3316H
AC Current	2000A	±(2.5%+5d)	100mA	600A	1000 A	1000 A	*	*	*	*	*
			10mA	*							
DC Current	2000A	±(2.5%+5d)	100mA					*	*	*	*
AC Voltage	1000V	±(1.0%+4d)	0.1mV	750V	*	*	*	*	*	*	*
DC Voltage	1000V	±(0.5%+4d)	0.1mV	*	*	*	*	*	*	*	
	1500V	±(0.5%+4d)	0.1mV								*
Resistance	40MΩ	±(1.0%+2d)	0.1Ω	20MΩ	*	*	*	*	*	*	*
Frequency	10MHz	±(1.2%+2d)	0.001Hz		*	*	*	*	*	*	*
Capacitance	40mF	±(3.0%+5d)	0.01nF		*	*					

Size(HxWxD): 270mm x 107mm x 50mm **Weight:** 554g
Accessories: Test leads, gift box with carrying case, 9V battery.

CP-30/2000A

2000A AC/DC Current Clamp

The CP-30 adopts AUTO-ZERO technology, which features minimal zero-point drift caused by temperature changes. It is therefore suitable for measurements in environments with temperature fluctuations, such as continuous day-and-night monitoring.

The CP-30/2000A are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

Specifications

Function	CP-2000A Range	CP-30 Range	Accuracy
DC Current	2000.0A	600.0A	±(2.0% + 5 digits)
AC Current	2000.0A	600.0A	±(3.0% + 5 digits)
Output rate	0.1mV/1A	1mV/1A	
Bandwidth	DC 5kHz (-3dB)		
Low battery indication			

Size(HxWxD): 68mm x 45mm x 185mm
Weight: 230g

Accessories: Two “AA”1.5V batteries, clamshell with carrying case.



Auto-zero sensors: Stable measurement of DC power over extended periods of time

Auto-zero current sensors allow measurement of DC power over extended periods of time, eliminating the need to concern yourself with zero-point drift.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



Model CP-2000A Model CP-30

LM-150-85mV/250-100mV/250-50mV True RMS AC Flex Clamp Meters

Flexible sensors: Easy installation in confinedlocations

Flexible current sensors provide a convenient way to measure double- and triple-wired power supplies and in confined locations, with capacities of up to 3000A/6000A/10000A.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



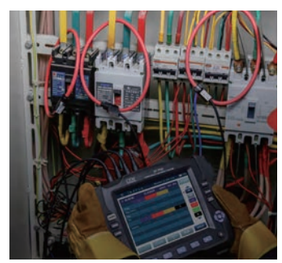
Model LM-150-85mV

Specifications

Function	LM-150-85mV	LM-250-100mV	LM-250-50mV
Rated Current	3000A	6000A	10000A
MAX Current	500kA	500kA	500kA
Coil Electricity	50 - 250 Ω	50 - 700 Ω	50 - 700 Ω
Output on 0A (zero drift)	≤0.1mV	≤0.05mV	≤0.05mV
Coil Section	8mm	11.7±0.4mm	11.7±0.4mm
Phase Error	≤0.5°(45Hz~65Hz)		
Bandwidth (3dB)	1Hz - 5kHz		
Lead length (default)	2m		
Coil	Thermoplastic rubber flame retardant UL 94 V-0 rated		
Color (coil)	Orange, Red, Green, Blue (Optional)		
Applicable voltage range	CATIII 1000V, CATIV 600V		
Operating Temperature	-40°C to 80°C		
Storage Temperature	-50°C to 90°C		

No need for an external power supply

Since sensor power is supplied by the instrument, there's no need for an AC adapter when using AC/DC sensors or flexiblesensors.



CP-03A/CP-03B/CP-03C

Smaller sized AC,AC/DC current clamp-on Adaptor



Model CP-03B/CP-03C



Model CP-03A



EN 61010-1 CAT III 600V

EMC & LVD
EN: 50081-1, 50082-1
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

CP-03C AC/DC Clamp-on adaptor with bluethooth interface

CP-03A/CP-03B High Resolution AC, AC/DC Clamp-on Adaptors. Providing non-invasive Current measurements to 4A with resolution to 1mA for AC, DC/AC Current. The adaptors are perfect for low current automotive, industrial control or appliance repair.

CP-03C AC/DC Clamp-on adaptor with bluethooth interface.

Features

Function	Range	Output	Sensitivity	Basic Accuracy	CP-03A	CP-03B/03C
Current	4A	100mV/A	0.01A/mV AC	±(2.5%+0.06A)	AC	
	40A	10mV/A	0.1A/mV DC/AC	±(2.5%+0.03A)	AC	DC/AC
	400A	1mV/A	1A/mV DC/AC	±(2.8%+0.03A)	AC	DC/AC
Clamp jaw opening			1.2” (30mm)			
Non-contact voltage detector			50-600VAC			

Size(HxWxD): 150mm x 58mm x 35mm
Weight: 205g
Accessories:
Test leads, 9V battery and clamshell

CP-09 Smaller sized , convenient-to-use AC current clamp-on Adaptor



Model CP-09

CP-09 is the ideal tool to extend the current ranges for all Multimeters.

The CP-09 is a 200A AC current clamp-on Adaptor with voltage output via a standard banana inputs to be connected to multimeters.

Features

Function	Range	Output	Sensitivity	Basic Accuracy
Current AC	200A	1mV/A	1A/mV AC	±2%
0.7” (18mm) Clamp jaw opening				

Size(HxWxD): 80mm x 66mm x 31mm
Weight: 80g

Accessories:
Test leads and clamshell

CP-10/11 High Resolution Mini AC/DC Clamp-on Adaptors



Model CP-10



Model CP-11

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

The CP-10/11 are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

- 0.5” (12.5mm) Clamp jaw opening (CP-10)
- 0.9” (23mm) Clamp jaw opening (CP-11)

Features

Function	Range	Output	Sensitivity	Basic Accuracy	CP-10	CP-11
Current AC/DC	2A	100mV/A	0.01A/mV AC/DC	±3.5%	*	
	80A	10mV/A	1A/mV AC/DC	±3.5%	*	
	40A	10mV/A	0.1A/mV AC/DC	±3.5%		*
	400A	1mV/A	1A/mV AC/DC	±3.5%		*

Size(HxWxD): 190mm x 70mm x 40mm
Weight: 200g
Accessories: Test leads, gift box with carrying case and 9V battery.

CP-12/CP-1000

AC/DC Clamp-on Adaptors



Model CP-1000



Model CP-12

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

The CP-12/1000 are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

- CP-12 AC Clamp-on Adaptor provides non-invasive Current measurements to 10A with resolution to 10mA for AC Current.
- CP-1000 is an AC/DC Clamp-on Adaptor.

Features

Function	Range	Output	Sensitivity	Basic Accuracy	CP-12	CP-1000
Current ACA/DCA	10A	1mV/100mA	0.1A/mV DC	±(3.0%+0.06A)	AC	
	100A	1mV/A	1A/mV DC	±(3.5%+0.03A)	AC	
	600A	0.1mV/A	10A/mV DC	±(3.0%+0.03A)		AC/DC
	1000A	0.1mV/A	10A/mV DC	±(3.0%+0.03A)	AC	AC/DC
Clamp jaw opening: 1.2” (30mm)						

Size(HxWxD): 229mm x 80mm x 49mm
Weight:303g
Accessories:
Test leads, gift box with carrying case and 9V battery.

AC-009/010 Line Splitter

Line Splitter was designed to carry out splitting among active Phase, Neutral and PE conductors on single-phase installations powered by 2- or 3-pole cord cables up to 16A absorption. It can take immediate measurements of current by means of clamps/DMMs which would be otherwise impossible without stripping the cable to get access to individual conductors.
Features voltage check function (AC-010)

Specifications

		AC-009	AC-010
Ring for Line Current Measurement x1			*
Ring for Line Current Measurement x10		*	*
Voltage Rating (Maximum)	250V AC, 50/60Hz	*	*
AC Current (Maximum)	16A	*	*
Operating Temperature	0 to 50°C (32 to 122°F)	*	*
Storage Temperature	-20 to 60°C (-4 to 140°F)	*	*
Humidity	Max 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F)	*	*
Altitude	2100 meters (7000 feet) maximum	*	*
Safety Compliance	CAT III 300V	*	*

Size(HxWxD): 228mm x 68mm x 55mm (AC-010)
160mm x 68mm x 55mm (AC-009)
Weight: 230g

Accessories: gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033





Model AC-009



Model AC-010

AC-008/008S Line Splitter

Measuring AC current on a 2-wire or 3-wire power cord to 15A.
Providing easy and safe measurements of current without the need to separate the conductors.
Plugging the power connector into the line splitter separates the hot/live conductor from the neutral.
Features voltage check function.

Size(HxWxD): 210mm x 48mm x 38mm
Weight: 230g

Accessories: gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033





Model AC-008S



Model AC-008

Professional Electrical & Power Testers





Electrical & Power Testers Selection Guide



Multifunction Installation Testers P253

DT-6650 rugged Multifunction Installation Tester with 3.5" TFT color LCD display, provides insulation resistance, earth resistance, loop impedance, voltage, RCD, PFC and PSC testing. It is designed with software system and ensure the safety of electrical installations in domestic, commercial and industrial applications. 6650 series can ensure the fixed wiring is safe and correctly installed. It's fast sampling and dual display, clear symbols and exceptionally wide viewing angle are for easy and safe readings.



Three-phase Power Quality Analyzer with InfraRed Thermal Imagers P245

7760 Three-phase Power Quality and Energy Analyzer with InfraRed Thermal Imager offers the best power quality analysis and the ability to monetarily quantify energy losses. It can measure voltage, current, frequency, power, power energy flicker, harmonics and inter-harmonics etc. 7760 helps locate, predict, prevent, and troubleshoot power quality problems in three-phase and single-phase power distribution systems.



3 in 1 Professional Insulation Tester with Thermal Imager P259

DT-6509 Professional Insulation Tester & High Resolution Micro-ohm Meter with True RMS InfraRed Thermal Image Multimeter design, providing fast A/D converting sampling time, high accuracy, with datalogging features. Advanced system platform permits smart multifunctions such as updating software on line, PC calibration etc.
Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone for edit and store.



Electrical Testers P297

DT-9331 Two-pole Voltage and Continuity Tester provides fast and accurate test results you need. It is with large, easy-to-use buttons, bright backlight and clear audible and physical indicator designed which can provide convenient measurement. Enhanced ergonomic design is easy to use (even with gloves on).



Non-Contact AC Voltage Detectors P289

The Non-contact AC Voltage Testers are easy to use — just have the tip close to a terminal strip, outlet, or supply cord. When the tip glows red and the unit beeps, you know there's voltage present. Electricians, maintenance, service, safety personnel, and homeowners can quickly test the energized circuits in the workplace or at home.



AC Voltage Power Recorder with Dataloggers P280

The 195CVS is a datalogger for measuring and recording current ,voltage , active power, apparent power, power factor and electrical energy.
The readings are saved in the logger and simply read out by your smartphone bluetooth interface.
The LCD can show measuring readings, MAX,MIN and alarm indication.

Three-phase Power Quality Analyzer with InfraRed Thermal Imager







Thermal Imager Specifications (Only 7761)

IR resolution	120x90 pixels	**Object temperature range**	-20 to 400°C (-4 to 752°F)
Field of View (FOV)	50° x 38°	**Spectral range**	8-14 µm
Thermal sensitivity/NETD	< 0.06°C /60mK	**Color palettes**	Iron/Rainbow/Grey/Grey Inverted
Image frequency	30Hz	**Accuracy**	±2°C (±3.6°F) or ±2% of reading

Three-phase Power Quality and Energy Analyzer Specifications (7760/7761)

	Range	Resolution	Accuracy
Volt			
Vrms (AC+DC)	1V to 1000V phase to neutral	0.1V	± 0.5% of nominal voltage
Vpk	1Vpk to 1400 Vpk	1V	5% of nominal voltage
Voltage Crest Factor (CF)	1.0 > 2.8	0.01	±5 %
Amps (accuracy excluding clamp accuracy)			
Amps (AC)	5A to 3000A (LM-150-85mv)	0.1A	± 0.5% ± 5counts
	10A to 6000A (LM-250-100mv)	1A	
	20A to 10000A (LM-250-50mV)	1A	
Apk	4200/8400/14000 Apk	1 Arms	± 5%
A Crest Factor (CF)	1 to 10	0.01	± 5%
Hz			
Hz	42.5 to 57.5Hz/ 51 to 69Hz	0.001 Hz	± 0.01Hz
Watts (VA, var)	max 2000 MW	0.1W to 1MW	± 1% ± 10counts
Power factor	0 to 1	0.001	± 0.1% @ nominal load conditions
Harmonics			
Harmonic order (n)	DC, 1 to 50 Grouping: Harmonic groups according to IEC 61000-4-7		
Inter-harmonic order (n)	OFF, 1 to 50 Grouping: Harmonic and Interharmonic subgroups according to IEC 61000-4-7		
Volts	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 1000 V (Absolute)	0.1V	± 5%
Amps	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	3.0 to 3000A (Absolute)	0.1A	± 5% ± 5counts
Total Harmonic Distortion of Current (THD)	0.0 % to 100 %	0.1%	±2.5%
Power (%f or %r)	0.0 % to 100 %	0.1%	± n x 2%
Total Harmonic Distortion of power (THD)	0.0 % to 100 %	0.1%	±5%
The Absolute Power	Depends on clamp scaling and V nominal (Absolute)		± 5% ± n x 2% ± 10counts
Phase Angle	-360° to +0°	1°	± n x 1°
Flicker			
Plt, Pst, Pst(1min) Pinst	0.00 to 20.00	0.01	± 5%
Unbalance			
Volts	0.0% to 20.0%	0.1%	± 0.1%
Amps	0.0% to 20.0%	0.1%	± 1%
Inrush mode	Arms(AC+DC)		
Memory	Screens & data		

7760/7761 Three-phase Power Quality and Energy Analyzer offers the best power quality analysis and the ability to monetarily quantify energy losses. It can measure voltage, current, frequency, power, power energy flicker, harmonics and inter-harmonics etc.
7760/7761 helps to locate, predict, prevent, and troubleshoot power quality problems in three-phase and single-phase power distribution systems.
7761 is three-phase Power Quality and Energy Analyzer with InfraRed Thermal Imager.

Features:

- Built-in Thermal Imager design quickly identifies hot spots without contact (7761)
- 120x90 Infrared resolution
- Bluetooth BLE instant share function & WiFi
- Power inverter efficiency
- Power wave data capture
- Waveform capture
- Automatic transient mode
- Fully Class-A compliant
- Mains signaling
- 50/60Hz measurement
- Troubleshoot
- Highest safety rating in the industry
- Measure all three phases and neutral
- Automatic trending
- System-Monitor
- Logger function
- View graphs and generate reports

Size(HxWxD): 276mm x 86mm x 212mm
Weight: 1.2kg

Accessories :
ACA current clamp sensor, USB cable, Li-ion re-chargeable battery, AC Charger, Software and Carring case.

Advanced AI-Enabled Three-phase Power Quality Analyzer

The AI-7760 blends advanced large-language model with RAG-enhanced industry knowledge-graph retrieval to create a unique cognitive decision framework that surpasses conventional instruments, delivering expert-level diagnostics, real-time analysis, comprehensive assessment reports, actionable mitigation plans, proactive anomaly alerts, and voice-controlled operation that frees operators' hands, making it the essential tool for safe, reliable power-system operation and high-quality industry development.



Core Features:

- **AI-Powered Diagnostics**:
  Automatically identifies and classifies power quality events (e.g., sags, swells, interruptions, harmonics, interharmonics, flicker), pinpoints the source of disturbance, and generates root cause analysis reports.
- **High-Precision Measurement:**
  Simultaneously measures fundamental parameters like True RMS voltage and current for all three phases, power, power factor, and frequency.
- **Advanced Power Quality Analysis:**
  Comprehensive analysis compliant with IEC 61000-4-30 Class A, including harmonics (up to the 127th order), interharmonics, flicker (Pst, Plt), voltage unbalance, and frequency deviation.
- **Transient Capture:**
  High sampling rate capable of capturing microsecond-level voltage and current transients.
- **Energy Consumption Monitoring & Reporting:**
  Monitors equipment energy usage, identifies energy efficiency optimization opportunities, and automatically generates standard-compliant power quality and energy efficiency reports.
- **Cloud Platform & Remote Collaboration:**
  Data can be synced to the cloud, supporting multi-user remote access, real-time viewing, and analysis for enhanced team collaboration and expert diagnostics.



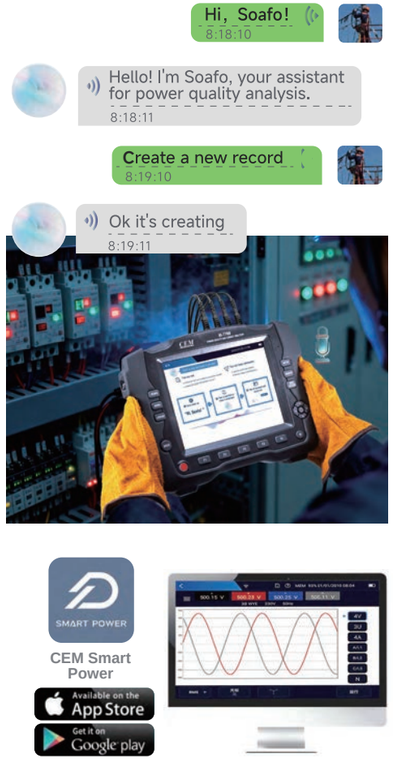
Model AI-7760

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Three-phase Power Quality and Energy Analyzer Specifications

	Range	Resolution	Accuracy
Volt			
Vrms (AC+DC)	1V to 1000V phase to neutral	0.1V	± 0.5% of nominal voltage
Vpk	1Vpk to 1400 Vpk	1V	5% of nominal voltage
Voltage Crest Factor (CF)	1.0 > 2.8	0.01	±5 %
Amps (accuracy excluding clamp accuracy)			
Amps (AC +DC)	0.5A to 6000A	0.1A	± 0.5% ± 5counts
Apk	8400 Apk	1 Arms	± 5%
A Crest Factor (CF)	1 to 10	0.01	± 5%
Hz			
Hz	42.500 Hz to 460 Hz	0.001 Hz	± 0.01Hz
Watts (VA, var)	max 6000 MW,	0.1W to 1MW	± 1% ± 10counts
Power factor	0 to 1	0.001	± 0.1% @ nominal load conditions
Harmonics			
Harmonic order (n)	DC, 1 to 50 Grouping: Harmonic groups according to IEC 61000-4-7		
Inter-harmonic order (n)	OFF, 1 to 50 Grouping: Harmonic and Interharmonic subgroups according to IEC 61000-4-7		
Volts	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 1000 V (Absolute)	0.1V	± 5%
Amps	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 600A (Absolute)	0.1A	± 5% ± 5counts
Watts	0.0 % to 100 % (%f or %r)	0.1%	± n x 2%
	Depends on clamp scaling and V nominal (Absolute)		± 5% ± n x 2% ± 10counts
Phase Angle	-360° to +0°	1°	± n x 1°
Flicker			
Plt, Pst, Pst(1min) Pinst	0.00 to 20.00	0.01	± 5%
Unbalance			
Volts	0.0% to 20.0%	0.1%	± 0.1%
Amps	0.0% to 20.0%	0.1%	± 1%
Inrush mode	Arms(AC+DC)		
Memory	Screens & data		

Size(HxWxD): 276mm x 86mm x 212mm
Weight: 1.2kg
Accessories : ACA current clamp sensor, USB cable, Li-ion rechargeable battery, AC Charger, Software and Carring case.



Three-phase Power Quality Analyzer



The Three-phase power quality analyzer meter measures currents and voltages and harmonics, Frequency reports real-time RMS values for all 3-phases and neutral. In addition, the power quality analyzer meter calculates power factor, realpower, reactive power, and more.

Features	6630S	6631S
Adopting a 32-bit Cortex-M4 core system, paired with a high-definition 4.3-inch 800 (RGB)* 480 Pixels IPS TFT display screen.	*	*
The instrument has a built-in 32G TF storage card.	*	*
Supports RJ45 high-performance10/100Ethernet functionality, compliant with IEEE802.3/802.3u (FastEthernet), Compliant with ISO 802-3/IEEE 802.3 (10BASE-T).	*	*
Supports USB storage and copying of data.	*	*
Support recording measurement data to built-in TF card or USB drive.	*	*
The interfaces between the measurement end and the system end have 3000V isolation protection.	*	*
ABC Phase Phasor		*
ABC Phase Harmonic & Inter-harmonic		*
ABC Phase Scope		*

Specifications

		Measuring Range	Resolution	Accuracy	6630S	6631S
L1 (A), L2 (B), L3 (C) RMS voltage (Vrms) (Communication)		5 to 1000V Phase line to neutral line	0.01V	Nominal voltage 0.2%	*	*
N effective value voltage (Vrms) (AC/DC)		5 to 800V Phase line to neutral line	0.01V	Nominal voltage 0.5%	*	*
Roche coil: RMS current (Arms) (AC)						
ZRC150: 85mV/kA at 50Hz		10 to 3600A (AC)	0.01A	0.5% (1% to 120% full scale, accuracy not guaranteed for <10A) ±5counts	*	*
SRC250-50mV: 50mV/kA at 50Hz		30 to 10000A (AC)	0.01A			
Open end current clamp (Arms) (AC)						
ST08 (5A)		10mA to 5A (AC)	0.001A	0.5% (100mA to 5A), 1% (10mA to 100mA)	*	*
ST08 (10A)		10mA to 10A (AC)	0.001A	0.5% (100mAto10A),1% (10mA to100mA), <10mA does not guarantee accuracy	*	*
Peakcurrent: Roche coil (AC)						
ZRC150		3000 A	1 Arms	±5%	*	*
SRC250-50mV: 50mV/kA at 50Hz		10000 A				
Peak current: Open end current clamp (AC)						
ST08 (5A)		5A	0.001A	0.5% (100mA to 5A),1% (10mA to 100mA)	*	*
ST08 (10A)		10A	0.001A	0.5% (100mAto10A), 1% (10mA to100mA), <10mA does not guarantee accuracy	*	*
Frequency		45 to 65Hz	0.001Hz	±0.01Hz	*	*
Power	Active and apparent power		0.01	IEC62053-22 grade 0.5S	*	*
	Reactive power		0.01	IEC62053-21 Level 2S	*	*
	Power factor (Cos Ø/DPF)	0 to 1	0.01	±0.005	*	*
Electric Energy	Active Energy (Wh)	Depending on clamp scaling and nominal voltage	0.01	IEC62053-22 grade 0.5S	*	*
	Reactive Energy (Varh)			IEC62053-21 Level 2S		
Harmonics					*	*
Volts	0.0 % to 100 % (%f)		0.1%	± 0.1% ± n x 0.1%	*	*
	0.0 to 1000 V (Absolute)		0.1V	± 5%	*	*
Amps	0.0 % to 100 % (%f)		0.1%	± 0.1% ± n x 0.1%	*	*
	0.0 to 600A (Absolute)		0.1A	± 5% ± 5counts	*	*
Inter-harmonic order (n)	1 to 40 Grouping: Harmonic and Interharmonic subgroups according to IEC 61000-4-7					*
Phase Angle	-360° to +0°		1°	± n x 1°		*

Size(HxWxD): 230mm x 164mm x 65mm
Weight: 894g
Accessories : ACA current clamp sensor, USB cable, Software and gift box.

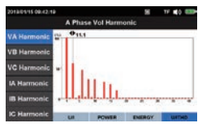


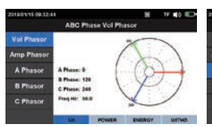
Model 6630S/6631S

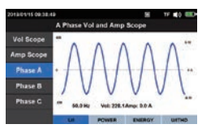
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 300V
EN 61010-1 CAT III 600V

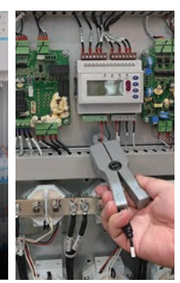












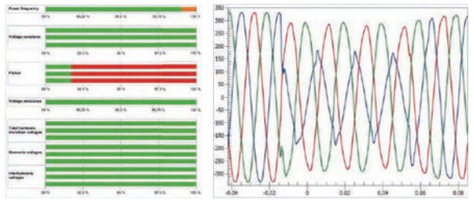


Model 630PQ

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



630PQ three phase power quality analyzer, externally connected with open type Rogowski coil or voltage type CT, it can realize none dismantling wire test, simplify test steps, save construction cost, and is more convenient for engineering test as well as the inspection and maintenance of distribution system.





Record and evaluate measurement data

CEM Smart Power
Available on the App Store
Get it on Google play



Features

3.5 inch display with 480x800 pixels
Support systems of single-phase and three-phase
Wiring system: 3P4W 4CT,3P4W 3CT,3P3W 3CT,3P3W 2CT,1P3W,1P2W
Capable of measuring multiple basic electrical parameters, including current, voltage, power factor, power, energy, and power quality parameters including harmonic, unbalance degree, voltage swell and voltage dip, etc.
Built-in storage medium: embedded with a 32 GB memory card for storing and recording various measurement data
Equipped with standard RJ45 Ethernet and RS485 communication interfaces
Compatible with standard Modbus TCP protocol and Modbus RTU protocol
Adaptable to various configuration systems
Capable of transmitting real-time electrical parameters collected by the front-end to the system data center

Specifications

Function		Measuring Range	Accuracy
Voltage		0-600VAC	0.2%
Current		Different current sensors have different measuring ranges	0.2%+ Accuracy of current sensor
Frequency		45Hz-65Hz	±0.001Hz
Power factor		-1-+1	±0.005
Power		Active power	0.5%
		Reactive power	1%
		Apparent power	0.5%
Energy		Active energy	0.5%
		Reactive energy	1%
		Apparent energy	0.5%
Harmonic	Harmonicharmonic order(n)	Group1-51: IEC61000 -4-30 Class S pole	IEC61000-4-30 Class S
	Voltage %f	0.1 to 100.0%	
	THDU:Total harmonic		
	distortion of voltage		
	Current %f		
	THDI		

Size(HxWxD): 96mm x 96mm x 94mm **Weight:** 860g
Accessories : ACA current clamp sensor, USB cable, Software and gift box.

The 230PQ is a DIN-Rail three-phase multifunctional smart meter that supports externally connected with open type Rogowski coil or voltage type CT, it can realize none dismantling wire test, simplify test steps, save construction cost, and is more convenient for engineering test as well as the inspection and maintenance of distribution system.
The 230PQ support systems of single-phase and three-phase. It can measure multiple electrical parameters such as current, voltage, power factor, harmonics, power, energy and other electrical parameters of L1,L2,L3.The standard RS485 communication interface can be compatible with various configuration systems through the standard MODBUS-RTU protocol.

Features

1.77 inch TFT screen display
Current sensor type Rogowski coil, Voltage-output current clamp
Advantage Suitable for wide current range, no dismantling measurement
Wiring system: 3P4W 4CT,3P4W 3CT,3P3W 3CT,3P3W 2CT,1P3W,1P2W
Application field Power analysis, Tariff meter
Modbus RTU, RS485 Port

Specifications

Current	
Channel input voltage range	0-900mVAC peak,636 mV RMS (MAX. 3000AAC)
Measurement range	Different current sensors have different ranges
Rcoil	50mV/kA@50Hz(0-12000A),@60Hz(0-10000A) 85mV/kA@50Hz(0-7000A),@60Hz(0-6000A)
VCT	0~99999A
Voltage	
Channel input voltage range	0~600VAC Phase Voltage
Maximum range	720VAC Phase Voltage
Digital Signal	
Relay output	One way electromagnetic relay output, contact capacity:3A 30V DC, 3A 250V AC
Digital input	One way dry contact input, optocoupler isolation (5kVrms)
Communication	
RS485 communication	One way RS485 communication interface Interface type: two wire half duplex Communication baudrate: 2400bps ~ 38400bps, Protocol: Modbus RTU
Power supply	
Power Supply	95~265VAC/110~370VDC, 45~60Hz
Maximum power consumption	3.5VA

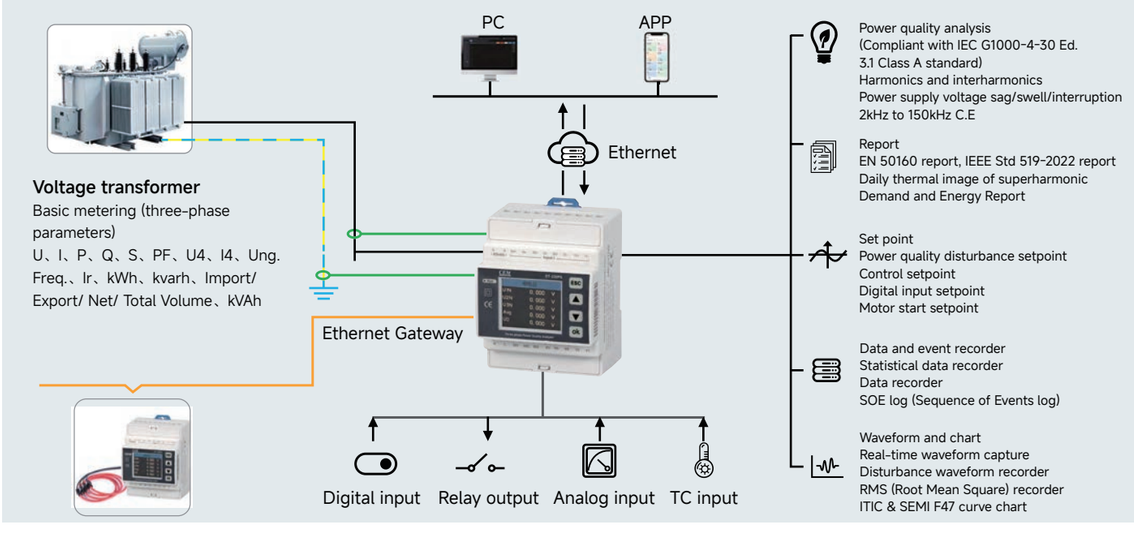
Size(HxWxD): 95mm x 73mm x 66mm **Weight:** 260g
Accessories : ACA current clamp sensor, USB cable, Software and gift box.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 230PQ





Multifunction Installation Tester

6650/6651/6652 rugged Multifunction Installation Tester with 3.5" TFT color LCD display, provides insulation resistance, earth resistance, loop impedance, voltage, RCD, PFC and PSC testing. It is designed for software system and ensure the safety of electrical installations in domestic, commercial and industrial applications. 6650 series can ensure the fixed wiring is safe and correctly installed. It's fast sampling and dual display, clear symbols and exceptionally wide viewing angle are for easy and safe readings.



Features

	6650	6651	6652
DC Voltage Measurement Range 1500V		*	*
3.5" TFT color LCD display with 320x240 pixels	*	*	*
Fast high current loop test	*	*	*
Variable RCD current mode for customized settings	*	*	*
PASS/FAIL indication for RCD tests	*	*	*
Select voltage measurement between L-N, L-PE and N-PE	*	*	*
Support SD memory and USB and Bluetooth interface	*	*	*
Internal memory	*	*	*
Safe Earth Volt Touchpad detects raised earth voltages >50 V, indicating potential dangerous situations.	*	*	*
Slim probes designed with test button	*	*	*
For easy, always reliable and accurate compensation of test leads and mains cords.	*	*	*
Bluetooth interface	*	*	*

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 400V

DC Voltage Measurement Range 1500V (Model 6651)



Model 6651



Model 6650

Specifications (6650/6651/6652)

AC voltage measurement

Range	Resolution	Accuracy
0.0~500.0V (Model 6650)	0.1V	±(2.0% + 3 digits)
0.0~1500.0V (Model 6651/6652)	0.1V	±(2.0% + 3 digits)

Insulation

Terminal Voltage	Range	Max Resolution	Accuracy	Test Current	Short circuit current
125V (0% ~ +10)	0.125~4000MΩ	0.001MΩ	±(2%+10)	1mA@load 125kΩ	≤1mA
250V (0% ~ +10)	0.250~4000MΩ	0.001MΩ	±(2%+10)	1mA@load 250kΩ	≤1mA
500V (0% ~ +10)	0.500~4000MΩ	0.001MΩ	±(2%+10)	1mA@load 500kΩ	≤1mA
1000V (0% ~ +10)	1.000~4000MΩ	0.001MΩ	±(3%+10)	1mA@load 1MΩ	≤1mA

Low OHM

Range	Resolution	Accuracy	Max.open Circuit Voltage	Overload Protection
4.000Ω	0.001Ω	±(1.5%+30)	5.8V	250Vrms
40.00Ω	0.01Ω	±(1.5%+3)		
400.0Ω	0.1Ω			

Continuity Beeper

Range	Resolution	Operation Resistance	Max.open Circuit Voltage	Overload Protection
Continuity	0.01Ω	Resistance≤35Ω	5.0V ±1VDC	250Vrms
Short circuit current		≥200mA		

LOOP Resistance

L-PE (Hi-Amp) Range of the voltage used:195V a.c.~260V a.c. (50, 60Hz)		
Range (Ω)	Max. Resolution (Ω)	Accuracy
0.00~999	0.01	±(4% +6 digits)
L-PE(No Trip): Measuring Current:15mA / Range of the Voltage Used:195V a.c.~260V a.c.(50,60Hz)		
Range (Ω)	Resolution (Ω)	Accuracy
0.00~999	0.01	±(5%+6 digits)
L-N: Measuring Current:2.0A / Range of the Voltage Used:195V a.c.~260V a.c.(50, 60Hz)		
Range (Ω)	Max. Resolution (Ω)	Accuracy
0.00~999	0.01	±(4% +4 digits)

RCD Testing

Test current	Accuracy
x1/2, x1, x2, x5	1.5%~ -9%

Voltage and Frequency		
Measurement Range (V)/ AC-DC	Resolution	Accuracy
80-500V/(45-400Hz)	1V	±(2% +2 digits)

1-Phase quality power analyzer (6652)

Power (P, S, Q)	0.00 W (VA, Var) ~ 99.9 kW (kVA, kVar)
Power factor	-1.00 ~ 1.00
Voltage harmonics	0.1 V ~ 500 V
Voltage THD / Current THD	0.1 % ~ 99.9 %
Current harmonics	0.00 A ~ 199.9 A



Model 6652





Size(HxWxD): 220mm x 96.5mm x 60.5mm **Weight:** 631g

Accessories: Test leads, 8 x1.5V"AA" batteries, USB cable and Software, gift box with carrying case, adaptor.

Be safer, be faster, stay connected multifunction installation testers




Model 6653

6653/6656 rugged Multifunction Installation Tester with 3.5" Negativity display, provides insulation resistance, earth resistance, loop impedance, voltage, RCD, PFC and PSC testing. It is designed for software system and ensure the safety of electrical installations in domestic, commercial and industrial applications. can ensure the fixed wiring is safe and correctly installed. It's fast sampling and dual display, clear symbols and exceptionally wide viewing angle are for easy and safe readings.

Features

- Negativity display
- Fast high current loop test
- Variable RCD current mode for customized settings
- PASS/FAIL indication for RCD tests, RCD Type AC, A, B, S
- Select voltage measurement between L-N, L-PE and N-PE
- Safe Earth Volt Touchpad detects raised earth voltages >50 V, indicating potential dangerous situations.
- Slim probes designed with test button
- For easy, always reliable and accurate compensation of test leads and mains cords.
- Bluetooth interface



Specifications			6653	6656
Voltage measurement			*	*
Range	Resolution	Accuracy		
0.0~1000.0V AC	0.1V	±(2.0% + 3 digits)		
0.0~1500.0V DC	0.1V	±(1.0% + 3 digits)		
Continuity testing (RLO)			*	*
Range	Resolution	Accuracy		
0.00~2000Ω	0.01Ω	±(2.0% + 3 digits)		
Loop and line impedance (ZI)			*	*
Range		Resolution		
0~9999Ω		0.01 Ω		
RCD testing, RCD types tested			*	*
RCD Type	AC, A, B, S			
Notes	Responds to AC, Responds to pulsed signal, Responds to smooth DC signal, Time delay			
Tripping speed test (ΔT)			*	*
Current settings	Multiplier	Measurement range		
10-30-100-300-500mA	x ½, x 1, x2, x 5	RCD Type G: 10~300 ms; RCD Type S: 10~500 ms		
RCD/FI-Tripping Current Measurement/Ramp Test (IΔN)			*	*
Current range	30% to 110% of RCD rated current			
Step size	10% of IΔN, Linear rising within 30 s			
Dwell time	RCD Type G	300 ms/step		
	RCD Type S	500 ms/step		
Accuracy	±5%			
Specified trip current ranges (EN 61008-1)	50% to 100% for Type AC, 35% to 140% for Type A (>10 mA) 35% to 200% for Type A (≤10 mA), 50% to 200% for Type B			
Insulation resistance measurement (RISO) (Only Model 6656)				
Terminal Voltage	Range	Resolution	Accuracy	Test Current
250V (0%~20%)	0.250~4000 MΩ	0.001MΩ	+(2%+10 digits)	1mA @ load 250kΩ
500V (0%~20%)	0.500~4000 MΩ	0.001MΩ	+(2%+10 digits)	1mA @load 500kΩ
1000V (0%~20%)	1.000~4000 MΩ	0.001MΩ	+(2%+10 digits)	1mA @load 1MΩ
Earth Resistance Test (RE) (Only Model 6656)				
Range	Resolution	Accuracy		
200 Ω / 2000 Ω	0.1 Ω / 1Ω	±(2.0% + 5 digits)		
Phase Sequence Test (Only Model 6656)				
185V to 550V (Frequency Range: 45Hz to 65Hz)				

Size(HxWxD): 242mm x 105mm x 145mm **Weight:** 1.4kg

Accessories: Test leads, 8 x AA Alkaline IEC LR6, Software, gift box with carrying case.

A single solution for all your installation measurement requirements - simplified setup, faster testing, easier reporting.



Specifications			
Function	Range	Resolution	Accuracy
AC Voltage	0.0~1000V	0.1V	±(2.0% + 3 digits)
DC Voltage	0.0~1500V	0.1V	±(1.0% + 3 digits)
Fault loop Z_{L-PE}, Z_{L-N}, Z_{L-L}	0.0~19.99Ω	0.01Ω	±(5.0% + 5 digits)
	20.0~199.9Ω	0.1Ω	±(5.0% + 5 digits)
	200~1999Ω	1Ω	±(5.0% + 5 digits)
Fault loop Z_{L-PE} in RCD mode	0.0~19.99Ω	0.01Ω	±(6.0% + 10 digits)
	20.0~199.9Ω	0.1Ω	±(6.0% + 5 digits)
	200~1999Ω	1Ω	±(6.0% + 5 digits)
Measurement of resistance of protective conductors and equipotential bondings with ±200 mA current	0.00~19.99Ω	0.01Ω	±(2.0% + 5 digits)
	20.0~199.9Ω	0.1Ω	±(2.0% + 5 digits)
	200~400Ω	1Ω	±(2.0% + 5 digits)
Measurement of resistance with low current	0.0~199.9Ω	0.1Ω	±(2.0% + 5 digits)
	200~1999Ω	1Ω	±(2.0% + 5 digits)

Surge Protection Device (SPD) Insulation RAMP Test (Varistor Test) IEC 61643-11

Test Voltage	Voltage Ranges	Resolution	Test Current	Accuracy
1000 V	Step Ramp 0 V to 1000 V	1 V	1 mA	± (1.5 % + 3 digits)

RMS leakage current during the RCD tripping time measurement

IΔn mA	Multiplication factor setting											
	0.5			1			2			5		
	AC Type	A Type	B Type	AC Type	A Type	B Type	AC Type	A Type	B Type	AC Type	A Type	B Type
	∿	∿	⎓	∿	∿	⎓	∿	∿	⎓	∿	∿	⎓
10	5	3.5	5	10	20	20	20	40	40	50	100	100
30	15	10.5	15	30	42	60	60	84	120	150	210	300
100	50	35	50	100	140	200	200	280	400	500	-	-
300	150	105	150	300	420	600	-	-	-	-	-	-
500	250	175	250	500	-	-	-	-	-	-	-	-
1000	500	350	500	-	-	-	-	-	-	-	-	-

INSULATION RESISTANCE				
Terminal Voltage	Range	Resolution	Accuracy	Test Current
250V (0%~+20%)	0.250~4.000 MΩ	0.001MΩ	+(2%+15 digits)	1mA @load 250kΩ
	4.01~40.00 MΩ	0.01MΩ	+(2%+10 digits)	
	40.1~400.0 MΩ	0.1MΩ	+(3%+5 digits)	
	401~4000 MΩ	1MΩ	+(4%+5digits)	
500V(0%~+20%)	0.500~4.000 MΩ	0.001MΩ	+(2%+10 digits)	1mA @load 500kΩ
	4.01~40.00 MΩ	0.01MΩ	+(2%+10 digits)	
	40.1~400.0 MΩ	0.1MΩ	+(2%+5 digits)	
	401~4000 MΩ	1MΩ	+(4%+5 digits)	
1000V (0%~+20%)	1.000~4.000 MΩ	0.001MΩ	+(3%+10 digits)	1mA @load 1MΩ
	4.01~40.00 MΩ	0.01MΩ	+(2%+10 digits)	
	40.1~400.0 MΩ	0.1MΩ	+(2%+5 digits)	
	401~4000 MΩ	1MΩ	+(4%+5 digits)	

The Multifunction Installation Testers will revolutionize the way you work. With an ergonomic design, seamless user interface, integrated data management capabilities, wireless connectivity, and comprehensive reporting software.

Features

- Full-color touch screen
- Insulation PreTest safety function
- Insulation at L-N, L-PE, N-PE inputs
- Auto Test sequence
- Auto pass/fail results
- Loop and line impedance — mΩ resolution
- Continuity at L-N, L-PE, N-PE inputs
- Test smooth DC sensitive RCDs (Type B/B+)
- Earth resistance
- Voltage AC, DC, and frequency
- Wiring polarity checker, detects broken PE and N wires
- Insulation resistance
- Continuity and resistance
- Measure motor windings with continuity test (@ 10 mA)
- Loop and line impedance
- Prospective Earth Fault Current (PEFC/IK)
- Prospective Short-Circuit Current (PSC/IK)
- RCD trip time
- RCD trip current (ramp test)
- Measures trip time and current for RCD type AC, A, and B in one test
- RCD variable test current
- Automatic RCD test sequence
- Phase sequence test
- Voltage drop measurement
- Insulation Monitoring Device (IMD) test
- Surge Protection Device (SPD) test

Size(HxWxD): 276mm x 86mm x 212mm
Weight: 1.2kg

Accessories: Test leads, USB cable and Software, gift box with carrying case, adaptor.

Multifunction Electrical Installations Meter

6508H is an all-in-one test device, which has the measurement functions of voltage, resistance, phase sequence, harmonic, loop impedance, RCD and so on. They can identify and measure the voltage harmonics, frequency, duty cycle and phase sequence to judge whether the power grid voltage is normal. Continuity test and resistance measurement can measure the conductor resistance and judge whether the conductor contact is good. The loop impedance test can measure the loop resistance with electricity, and the $Z_{L\text{-}PE}$ RCD measurement can make the RCD above 30mA not trip. RCD test can detect whether RCD works normally.



Specifications

Function	Range	Resolution	Accuracy
AC/DC Voltage	0.0~550.0V	0.1V	±(2.0% + 5 digits)
Duty cycle	0.0~100.0%	0.1%	±(2.0% + 5 digits)
Fault loop $Z_{L\text{-}PE}$, $Z_{L\text{-}N}$, $Z_{L\text{-}L}$	0.0~19.99Ω	0.01Ω	±(5.0% + 5 digits)
	20.0~199.9Ω	0.1Ω	±(5.0% + 5 digits)
	200~1999Ω	1Ω	±(5.0% + 5 digits)
Fault loop $Z_{L\text{-}PE}$ in RCD mode	0.0~19.99Ω	0.01Ω	±(6.0% + 10 digits)
	20.0~199.9Ω	0.1Ω	±(6.0% + 5 digits)
	200~1999Ω	1Ω	±(6.0% + 5 digits)
Measurement of resistance of protective conductors and equipotential bondings with ±200 mA current	0.00~19.99Ω	0.01Ω	±(2.0% + 5 digits)
	20.0~199.9Ω	0.1Ω	±(2.0% + 5 digits)
	200~400Ω	1Ω	±(2.0% + 5 digits)
Measurement of resistance with low current	0.0~199.9Ω	0.1Ω	±(2.0% + 5 digits)
	200~1999Ω	1Ω	±(2.0% + 5 digits)

R_E-protective conductor resistance for RCD

Selected RCD rated current	Measurement range	Resolution	Test current	Accuracy
10 mA	10~5000Ω	10Ω	4 mA	0~+10%±8digits
30 mA	10~1660Ω		12 mA	0~+10%±5digits
100 mA	1~500Ω	1Ω	40 mA	0~+5%±5digits
300 mA	1~166Ω		120 mA	
500 mA	1~100Ω		200 mA	

RCD I_A tripping current measurement for sinusoidal residual current
(0.3…1,0) IΔN

Selected RCD rated current	Measurement range	Resolution	Test current	Basic uncertainty
10 mA	3.3~10.0 mA	0.1 mA	0.3 x IΔn ~ 1.0 x IΔn	±5% IΔn
30 mA	9.0~30.0 mA			
100 mA	33~100 mA	1 mA		
300 mA	90~300 mA			
500 mA	150~500 mA			

RCD I_A tripping current measurement for unidirectional pulsating residual current
(0.4…1,4) IΔn for ΔN≥30mA and (0,4…2) IΔn for Δn=10mA

Selected RCD rated current	Measurement range	Resolution	Test current	Basic uncertainty
10 mA	4.0~20.0 mA	0.1 mA	0.35 x IΔn ~ 2.0 x IΔn	±10% IΔn
30 mA	12.0~42.0 mA		0.35 x IΔn ~ 1.4 x IΔn	
100 mA	40~140 mA	1 mA		
300 mA	120~420 mA			

RMS leakage current during the RCD tripping time measurement

IΔn mA	Multiplication factor setting											
	0.5			1			2			5		
	AC Type	A Type	B Type	AC Type	A Type	B Type	AC Type	A Type	B Type	AC Type	A Type	B Type
10	5	3.5	5	10	20	20	20	40	40	50	100	100
30	15	10.5	15	30	42	60	60	84	120	150	210	300
100	50	35	50	100	140	200	200	280	400	500	-	-
300	150	105	150	300	420	600	-	-	-	-	-	-
500	250	175	250	500	-	-	-	-	-	-	-	-
1000	500	350	500	-	-	-	-	-	-	-	-	-

INSULATION RESISTANCE

Terminal Voltage	Range	Resolution	Accuracy	Test Current
250V (0%~+20%)	0.250~4.000 MΩ	0.001MΩ	+(2%+15 digits)	1mA @load 250kΩ
	4.01~40.00 MΩ	0.01MΩ	+(2%+10 digits)	
	40.1~400.0 MΩ	0.1MΩ	+(3%+5 digits)	
	401~4000 MΩ	1MΩ	+(4%+5digits)	
500V(0%~+20%)	0.500~4.000 MΩ	0.001MΩ	+(2%+10 digits)	1mA @load 500kΩ
	4.01~40.00 MΩ	0.01MΩ	+(2%+10 digits)	
	40.1~400.0 MΩ	0.1MΩ	+(2%+5 digits)	
	401~4000 MΩ	1MΩ	+(4%+5 digits)	
1000V (0%~+20%)	1.000~4.000 MΩ	0.001MΩ	+(3%+10 digits)	1mA @load 1MΩ
	4.01~40.00 MΩ	0.01MΩ	+(2%+10 digits)	
	40.1~400.0 MΩ	0.1MΩ	+(2%+5 digits)	
	401~4000 MΩ	1MΩ	+(4%+5 digits)	

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g
Accessories: Test leads, 6 x1.5V“AA” batteries, Software, gift box with carrying case.

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT IV 300V



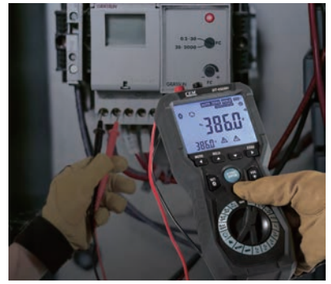
Model 6508H

Features:

Measurement of short circuit loop parameters
- Measurement of short circuit loop impedance in networks with rated voltage: 220/380 V, 230/400 V, 240/415 V and frequency 45…65 Hz, operating voltage range: 180…460 V
- Measurements of short circuit loop impedance with 15 mA current, without tripping the RCD circuit breaker • Maximum test current: 7.6 A (at 230 V), 13.3 A (at 400 V)

Testing RCD breakers of AC, A, B types
- Testing of prompt, short-delay and selective RCDs with rated current values 10, 15, 30, 100, 300, 500 mA
- Measurement of IA trip current and tripping time tA for currents 0.5 IΔn, 1 IΔn, 2 IΔn, 5 IΔn
- Extended AUTO function of RCD measurement, with the possibility of measuring ZL-PE with low current
- Measurement of IA and tA during one RCD tripping

Measurement of resistance of protective conductors and equipotential bondings
- Measurement of protective connections continuity with a ±200 mA current in accordance with EN 61557-4
- Autocalibration of test leads - any leads can be used
- Low current resistance measurement with sound signaling



Insulation Tester & High Resolution Micro-ohm Meter with True RMS InfraRed Thermal Image Multimeter

- ***Insulation Tester***
- ***High Resolution Micro-ohm Meter***
- ***True RMS InfraRed Thermal Image Multimeter***
- ***Built-in Thermal Imager design quickly identifies hot spots without contact***

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V
EN 61010-1 CAT IV 600V

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IP65 Waterproof | True RMS ACV/ACA | MULTIPLE PCB Multiple PCB | DOUBLE MOLDED Plastic housing | SAFETY Double Molded Test Leads | Backlight Backlight | Bluetooth | Thermview+

6509 Professional Insulation Tester & High Resolution Micro-ohm Meter with True RMS InfraRed Thermal Image Multimeter design, providing fast A/D converting sampling time, high accuracy, with datalogging features. Advanced system platform permits smart multifunctions such as firmware upgrade, PC calibration etc.
Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone to edit and store.

- ***TFT color LCD display***
- ***PC Calibration***
- ***Firmware upgrade***

- ***Insulation Tester***
- ***High Resolution Micro-ohm Meter***
- ***True RMS InfraRed Thermal Image Multimeter***

Features

Built-in Thermal Imager design quickly identifies hot spots without contact
Large 240 x 320 3.5" TFT color 6000 counts LCD display
Insulation test voltages 125V, 250V, 500V, 1000V
Insulation test: 125kΩ to 5000MΩ
Polarization index measurement(PI).
Logging function with Trend Capture for easy review of logged data
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
AC, AC+DC true RMS measurements & 1kHz ACV, ACA bandwidth
3000A Fexible Coil Current Measurements (Optional)
Peak capture (records transients as fast as 500μs)
Min/Max/Average with Time stamp (records signal fluctuations)
MicroSD memory card
Support capture screen capabilities
Bluetooth BLE instant share function
Easy to view and analyze images quickly
Lock power on function for hands-free operation

Specifications

Thermal Imager			
IR resolution	120 x 120 pixels		
Field of View (FOV)	15.6° x 15.6°		
Thermal sensitivity/NETD	< 0.1°C@ +30°C(+86°F)/100mK		
Image frequency	50Hz		
Object temperature range	-20 to 260°C (-4 to 500°F)		
Focus mode/ Focal length	Focus free/ 7.5mm		
Spectral range	8-14 μm		
Color palettes	Iron/Rainbow/Grey/Grey Inverted		
Accuracy	±3°C (±5.4°F) or ±3% of reading (Environment temperature 10°C-35°C, object temperature >0°C.)		
True RMS Multimeter Functions			
Function	Max. Range	Max. resolution	Best Accuracy
Voltage DC	1000V	100mV	±(0.5% + 5)
Voltage AC	1000V	100mV	±(1.2% + 5)
Resistance	60MΩ	0.1Ω	±(0.8% + 5)
Capacitance	6000uF	0.01nF	±(3.0% + 8)
Frequency （electrical）	10kHz	0.01Hz	±(1.0% + 5)
Diode and Continuity	Yes		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger		

Insulation Tester			
Terminal Voltage	Range	Max. Resolution	Accuracy
125V(0% ~20%)	125kΩ~5000MΩ	0.001MΩ	±(2.5%+8)
250V(0% ~20%)	250kΩ~5000MΩ		±(2.0%+8)
500V(0% ~20%)	500kΩ~5000MΩ		±(2.0%+8)
1000V(0% ~20%)	1MΩ~5000MΩ		±(2.5%+8)
Low OHMS			
Low Resistance	Range	Resolution	Accuracy
	1.0 to 60.00Ω	0.01Ω	±(1.5% + 40)
	60.00 to 600.0Ω	0.1Ω	±(1.5% + 20)

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, Li-ion battery, Type K temperature probe, Software, gift box with carrying case.



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Model 6509

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V
EN 61010-1 CAT III 1000V





DT-6508B

Professional Insulation Tester

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

6508B Professional Insulation Tester & High Resolution Meter with True RMS InfraRed Thermal Image Multimeter design, providing fast A/D converting sampling time, high accuracy, with datalogging features. Advanced system platform permits smart multifunctions such as firmware upgrade, PC calibration etc.



Model 6508B

Model DT-320BS

3000A AC Flexible clamp (optional)

Features

Large 240 x 320 3.5" RGB color 6000 counts LCD display
Insulation test voltages 125V, 250V, 500V, 1000V
Insulation test: 0.001MΩ to 6000MΩ
PI/DAR timed ratio tests
Logging function with Trend Capture for easy review of logged data
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
AC, AC+DC True-RMS measurements & 1kHz ACV, ACA bandwidth
3000A Fexible Coil Current Measurements (Optional)
Peak capture (records transients as fast as 500μs)
Min/Max/Average with Time stamp (records signal fluctuations)
High voltage and overload indication
Lock power on function for hands-free operation
K-type thermocouple
Auto discharge of voltage test signal
Support capture screen capabilities
Bluetooth BLE instant share function
Easy to view and analyze images quickly
CAT III 1000V, CAT IV 600V measurement category

Specifications

True RMS Multimeter Functions

Function	Max. Range	Max. resolution	Best Accuracy
Voltage DC	1000V	1mV	±(0.5% + 5)
Voltage AC	1000V	1mV	±(1.0% + 5)
Low Z AC Voltage	600V	1mV	±(3.0% + 40)
Current DC	10A	0.1μA	±(0.9% + 5)
Current AC	10A	0.1μA	±(1.2% + 5)
AC 3000A Current	100mV/1A	1A	±(2.5% + 10)
Temperature	-20°C to 1000°C	0.1/1°C	±(30% + 5°C)
	-4°F to 1832°F	0.1/1°F	
Resistance	60MΩ	0.1Ω	±(1.5% + 5)
Capacitance	6000μF	10pF	±(3.0% + 5)
Frequency (electrical)	9.999kHz	1Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	6x1.5V AA battery		

Insulation Tester

Terminal Voltage	Range	Max. Resolution	Accuracy	Test Current
125V(0% ~20%)	0.125~6000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ
250V(0% ~20%)	0.250~6000MΩ		±(2%+10)	1mA @load250kΩ
500V(0% ~20%)	0.500~6000MΩ		±(2%+5	1mA @load1500kΩ
1000V(0% ~20%)	1.000~6000MΩ		±(3%+5)	1mA @load1MΩ

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, 6 x 1.5V "AA" batteries, Type K temperature probe, Software, gift box with carrying case.







DT-6508L

Professional PV/EV True RMS Multimeter & Insulation Tester

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

6508L professional insulation low resistance tester and high-resolution measuring instrument, designed with a true RMS multimeter for testing electric vehicle batteries, providing fast A/D conversion sampling time, high accuracy, and data recording function. Advanced system platforms allow for intelligent multifunctional features such as firmware upgrades, PC calibration, etc.



Model 6508L

Model DT-320BS

3000A AC Flexible clamp (optional)

Features

Large 240 x 320 3.5" RGB color 6000 counts LCD display
Insulation test voltages 125V, 250V, 500V, 1000V
Four-wire measurement low resistance
The clamp meter adapter can be used to measure AC and DC currents (Optional)
Using a Kelvin clamp, the minimum test current within a 600mΩ range is 200mA.
1500V Photovoltaic Voltage test
Insulation test: 0.001MΩ to 6000MΩ
PI/DAR timed ratio tests
Logging function with Trend Capture for easy review of logged data
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
AC, AC+DC True-RMS measurements & 1kHz ACV, ACA bandwidth
3000A Fexible Coil Current Measurements (Optional)
Peak capture (records transients as fast as 500μs)
Min/Max/Average with Time stamp (records signal fluctuations)
High voltage and overload indication
Lock power on function for hands-free operation
K-type thermocouple
Auto discharge of voltage test signal
Support capture screen capabilities
Bluetooth BLE instant share function
Easy to view and analyze images quickly
CAT II 1500V, CAT III 1000V, CAT IV 600V measurement category

Specifications

True RMS Multimeter Functions

Function	Max. Range	Max. resolution	Best Accuracy
Voltage DC	1500V	1mV	±(0.5% + 5)
Voltage AC	1000V	1mV	±(1.0% + 5)
Low Z AC Voltage	600V	1mV	±(3.0% + 40)
Current DC	3000A	0.01A	±(2.5%+5)
Current AC	3000A	0.01A	±(2.5%+5)
AC 3000A Current	100mV/1A	1A	±(2.5% + 10)
Temperature	-20°C to 1000°C	0.1/1°C	±(30% + 5°C)
	-4°F to 1832°F	0.1/1°F	
Resistance	60MΩ	0.1Ω	±(1.5% + 5)
Capacitance	6000μF	10pF	±(3.0% + 5)
Frequency (electrical)	9.999kHz	1Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	6x1.5V AA battery		

Insulation Tester

Terminal Voltage	Range	Max. Resolution	Accuracy	Test Current
125V(0% ~20%)	0.125~6000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ
250V(0% ~20%)	0.250~6000MΩ		±(2%+10)	1mA @load250kΩ
500V(0% ~20%)	0.500~6000MΩ		±(2%+5	1mA @load1500kΩ
1000V(0% ~20%)	1.000~6000MΩ		±(3%+5)	1mA @load1MΩ

Low Resistance Tester

Function	Range	Resolution	Accuracy
Resistance Measurement Range	600.0mΩ/200mA	0.1mΩ	±(1.0%+20)
	6.000Ω/20mA	0.001Ω	
	60.00Ω/20mA	0.01Ω	

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, Copper rod, Test leads with Kelvin clips (red & black), 6 x 1.5V "AA" batteries, Type K temperature probe, Software, gift box with carrying case.







DT-6505B/6505H

Insulation Tester with True RMS Multimeter



Model 6505H



Model 6505B





The Insulation and Low Ohm Multimeter combines a digital insulation tester with a full-featured, True RMS digital multimeter in one, portable and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

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Model DT-320BS

3000A AC Flexible clamp (optional)

Features

	6505B	6505H
6000 Counts LCD With Backlight Display.		*
Measure insulation resistance up to 10 GΩ (1 kV)		*
AC True-RMS measurement		*
Data Hold		*
Bluetooth interface for easy data transfer		*
Setup function & save measurement		*
Analog Barograph		*
Red and Green Backlight to indicate Pass or Fail Using a COMP Level		*
CAT IV 1000V measurement category		*
Timed Tests		*
PI/DAR timed ratio tests		*
200 mA/20mA Continuity & Low Ohm range measurement	*	*
Lock power on function for hands-free operation	*	*
Auto discharge of voltage test signal	*	*
Low-Pass Filter Voltage (VFD)	*	*
Slim probes designed with test button	*	
Insulation test voltages 125V, 250V, 500V, 1000V	*	
Insulation test: 0.001MΩ to 4000MΩ	*	
Hight voltage and overload indication	*	
Low Resistance function with zero mode	*	
Insulation test smoothing reading	*	
AC 3000A Current test	*	
Low Z AC Voltage test	*	
Auto power off to save battery power	*	*

Specifications

Multimeter

Function	Max Range	Max Resolution	Basic Accuracy
DC Voltage	1000V	0.1V	±(0.5%+5)
AC Voltage	1000V	0.1V	±(1.0%+5)
Low Z AC Voltage	600V	1mV	±(3.0% + 40)
AC+DC Voltage	1000V	0.1V	±(3.0% + 40)
AC 3000A Current	3000A	0.01A	±(2.5%+10)
Temperature	-20 to 1000°C	0.1°C	±(1.0% + 2.5°C)
	-4 to 1832°F	0.1°F	±(1.0% + 4.5°F)

Insulation Tester

Terminal Voltage	Range	Max Resolution	Accuracy	Test Current
125V(0% ~10%)	0.125~4000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ
250V(0% ~10%)	0.250~4000MΩ	0.001MΩ	±(2%+10)	1mA @load250kΩ
500V(0% ~10%)	0.500~4000MΩ	0.001MΩ	±(2%+10)	1mA @load1500kΩ
1000V(0% ~0%)	1.000~4000MΩ	0.001MΩ	±(2%+10)	1mA @load1MΩ

Low Ohm Meter

	Range	Resolution	Accuracy	Max. open Circuit Voltage
Resistance	0~400Ω	0.001Ω	±(1.0% + 5)	>5V
	400Ω~4KΩ	0.01Ω	±(1.2% + 5)	
Low Resistance/ Continuity	10Ω(200mA)	10 mΩ	±(1.2% + 5 digits)	Max. open Circuit Voltage 5V
	100Ω(20mA)	100 mΩ	±(1.2% + 4 digits)	

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, 6x1.5V“AA” batteries, Type K temperature probe and Software, gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-6505/6505F

Insulation Tester & High Resolution Low Ohm Meter with True RMS Multimeter

The Insulation and Low Ohm Multimeter combines a digital insulation tester with a full-featured, True RMS digital multimeter in a single, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.



Model 6505F

Features

	6505	6505F
Rugged, utility hard case	*	*
Auto power off to save battery power	*	*
True RMS measurement	*	*
Data logged	*	*
Low pass filter for accurate measurement of variable frequency drive (VFD) signals	*	*
CAT III 1000V, CAT IV 600V measurement category	*	*
Bluetooth interface	*	*
Save both time and money with Automatic calculation of Polarization Index and Dielectric Absorption Ratio	*	*
Slim probes designed with test button	*	*
200 mA Continuity & Low Ohm range measurement	*	*
Compare function (pass/fail) for fast repeatitive tests	*	*
Insulation test voltages 125V, 250V, 500V, 1000V	*	*
Insulation test: 0.001MΩ to 5000MΩ	*	*
Auto discharge of voltage test signal	*	*
Insulation test smoothing reading	*	*
K-type thermocouple	*	*
AC 3000A Current test		*

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

TÜVRheinland ZERTIFIZIERT
www.tuv.com

GS geprüfte Sicherheit



Model 6505

Specifications

Multimeter

Function	Max Range	Max Resolution	Basic Accuracy	6505	6505F
DC Voltage	1000V	0.1V	±(0.1% + 4)	*	*
AC Voltage	1000V	0.1V	±(1.0% + 5)	*	*
DC Current	10A	0.001A	±(1.0% + 3)	*	*
AC Current	10A	0.001A	±(1.5% + 3)	*	*
AC 3000A Current	3000A	0.01A	±(3.0% + 3)		*
Resistance	50MΩ	0.01Ω	±(1.0% + 4)	*	*
Capacitance	5000μF	0.1μF	±(3.5% + 10)	*	*
Frequency	50MHz	0.001MHz	±(0.1% + 1)	*	*
Duty Cycle	0.1 to 99.90%	0.01%	±(1.0% + 2)	*	*
Temperature	-50 to 1200°C	0.1°C	±(1.0% + 2.5°C)	*	*
	-58 to 2192°F	0.1°F	±(1.0% + 4.5°F)		

Insulation Tester

Terminal Voltage	Range	Max Resolution	Accuracy	Test Current		
125V(0% ~10%)	0.125~5000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ	*	*
250V(0% ~10%)	0.250~5000MΩ	0.001MΩ	±(2%+10)	1mA @load250kΩ	*	*
500V(0% ~10%)	0.500~5000MΩ	0.001MΩ	±(2%+10)	1mA @load1500kΩ	*	*
1000V(0% ~0%)	1.000~5000MΩ	0.001MΩ	±(2%+10)	1mA @load1MΩ	*	*

Low Ohm Meter

	Range	Resolution	Accuracy	Max. open Circuit Voltage		
Resistance	0.000~5.000Ω	0.001Ω	±(1.5% + 30)	5 ±1V	*	*
	5.00~50.00Ω	0.01Ω	±(1.5% + 3)			
	50.0 ~500.0Ω	0.1Ω				
	500 ~2000Ω	1Ω	±(1.5% + 5)			

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, 6 x1.5V “AA” batteries, Type K temperature probe and Software, gift box with carrying case.



Model DT-320BS
3000A AC
Flexible clamp (optional)



www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-6501CLT

Cable Length Tester



Model 6501CLT

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

TÜVRheinland ZERTIFIZIERT
geprüfte Sicherheit
www.tuv.com

6501CLT can be used to measure spooled wire (or cable).
After you connect the meter to the two ends of the wire to be measured, the display will indicate the length of the wire quickly.
In addition, the meter can measure resistance accurately.
It is a very useful tool for wire/cable retailer, electricity department,electrical contractors, building trades, and etc.

Features

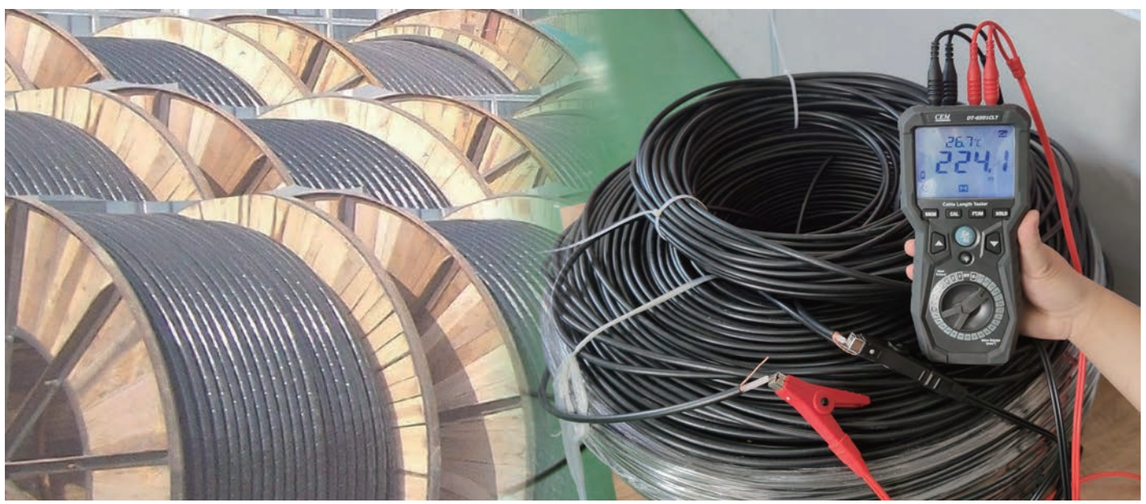
- 60000 count LCD with backlight display
- Four-wire measurement
- Wire length measurement
- Temperature Measurement
- Reads in feet and meters
- Measures copper and aluminum cables
- 20 pre-set wire gauge settings (0.15mm² - 240mm², 8 memory locations in user select mode
- Automatic temperature compensation
- Built-in buzzer
- Low battery indication
- Auto power off

Specifications

Function	Range	Resolution	Accuracy
Length Measurement Range	1000m	0.1m	±(1%reading+1m)
	10000m	1m	±(1%reading+1m)
	30km	0.01km	±(1.2%reading+1m)
	1000ft	0.1ft	±(1%reading+3ft)
	10000ft	1ft	±(1%reading+1ft)
	100kft	0.01ft	±(1.2%reading+1ft)
Resistance Measurement Range	1999.9mΩ	0.1mΩ	±(1.0%reading+3digits)
	19.999Ω	0.001Ω	±(1.0%reading+0.5m)
	199.99Ω	0.01Ω	±(1.0%reading+50m)
	1999.9Ω	0.1Ω	±(1.0%reading+6digits)
Temperature Measurement	-5 to 50°C	0.1°C	±(2.0%+1.8°C)
	23 to122°F	0.1°F	±(2.0%+3.5°C)

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Copper rod, Test leads with Kelvin clips (red & black), 6x1.5V “AA” batteries, Gift box, carrying case



DT-6502H

2 in 1 DC Low-resistance Tester and Cable Length Tester

6502H is used to measure DC low resistance through 4-wire method. Some of their features are: Comparison function to determine if the device is in good condition, unknown wire length calculation (FT/M); built-in Bluetooth interface; rechargeable lithium battery.
6502H can be used in narrow space for on-site troubleshooting, such as metal coating resistance/motor and small transformer winding resistance measurements, earth system joints/welding points/power distribution cabinet bus and lead connection inspections and more.
6502H can be used to measure spooled wire (or cable) also.

Features

- 60000 count LCD with backlight display
- Four-wire measurement
- Wire length measurement
- Temperature Measurement
- Time / Date display
- High/low limit alarm
- Data storage
- Bluetooth
- Manual range
- Relative value
- Low battery indication
- Auto power off

Specifications

Function	Range	Resolution	Accuracy
Resistance Measurement Range	60.000mΩ/10A	0.001mΩ	±(0.25% +25)
	600.00mΩ/1A	0.01mΩ	±(0.01%+20)
	6.0000Ω/100mA	0.0001Ω	
	60.000Ω/10mA	0.001Ω	
	600.00Ω/1mA	0.01Ω	±(0.1%+25)
	6.0000kΩ/100μA	0.1Ω	±(0.25%+30)
Length Measurement Range	1000m	0.1m	±(1%reading+1m)
	10000m	1m	±(1%reading+1m)
	30km	0.01km	±(1.2%reading+1m)
Temperature Measurement	-5 to 50°C	0.1°C	±(2.0%+1.8°C)
	23 to122°F	0.1°F	±(2.0%+3.5°C)

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Copper Rod, Test leads with Kelvin clips (red & black), 7.4V Li-ion battery, Gift box, carrying case



Model 6502H

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

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DT-6601CLT

LoΩ/TDR Cable Length Tester



Model 6601CLT



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

TÜVRheinland ZERTIFIZIERT
www.tuv.com

6601CLT can be used to measure spooled wire (or cable).
The 6601CLT is also equipped with an ambient temperature automatic compensation function: it continuously detects the ambient temperature and automatically calibrates the measurement parameters according to temperature changes. This ensures that the measurement results remain stable and accurate in different temperature environments (such as day-night temperature differences in workshops, seasonal changes, etc.), completely solving the problem of ambient temperature fluctuations affecting the accuracy of cable measurements and providing strong support for quality control in industrial production.

Features

19999 count LCD with backlight display
The LoΩ/TDR Cable Length Meters are hand-held testing devices with the following measurement capabilities: Resistance, Temperature and Length.
They can be used as mΩ meters to measure precise bonding resistances, the primary function of these meters is to calculate the length of cable based upon its material, temperature and cable gauge, cable material type can be either uncoated copper or aluminum.
This meter can also be used to measure the length of cables through TDR (Time Domain Reflectometer).
This meter can be used for any cable consisting of at least two insulated metallic elements, one of which may be the sheath or shield of the cable.
The meter has automatic internal matching networks to allow testing with Automatic selection range, this corresponds to power, telephony, CAT V and LAN cables.
There are 20 pre-programmed and eight programmable cable gauges (There are no strands per cable specification for the eight programmable switch positions).

Specifications

Function	Range	Resolution	Accuracy
Length Measurement Range with TDR	2.0 to 1999.9m	0.1m	±(2%reading + 1m)
	6.0 to 1999.9ft	0.1ft	±(2%reading + 3ft)
	6000ft	1ft	±(2%reading + 3ft)
Length Measurement Range with LoΩ	1999.9m	0.1m	±(1%reading + 1m)
	19.999km	1m	±(1%reading + 0.05km)
	30.00km	0.01km	±(1.2%reading + 0.10km)
	1999.9ft	0.1ft	±(1%reading + 3ft)
	19.999ft	1ft	±(1%reading + 0.16kft)
	100.00kft	0.01kft	±(1.2%reading + 0.33kft)
Resistance Measurement Range	1999.9mΩ	0.1mΩ	±(1.0%reading+3digits)
	19.999Ω	0.001Ω	±(1.0%reading+0.5m)
	199.99Ω	0.01Ω	±(1.0%reading+50m)
	1999.9Ω	0.1Ω	±(1.0%reading+6digits)
Temperature Measurement	-5 to 50°C	0.1°C	±(2.0%+1.8°C)
	23 to122°F	0.1°F	±(2.0%+3.5°C)

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Copper rod, Test leads with Kelvin clips (red & black), 6x1.5V “AA” batteries, Gift box, carrying case







DT-6503E

Earth Ground Resistance Tester

- *Double molded plastic housing*
- *CAT III 1000V*

Electronic Digital Earth Resistance Tester is direct replacement of the conventional hand generator type tester. It is designed for measurement of the resistance of earthing used in the electrical equipment as well as for measurement of ground resistivity. It can be used for measurements of the other low regular and liquid resistances. It can also be used for measurement of voltage AC, voltage DC and resistance.

This instrument has wide application for testing earthing installation in power based industries, telecommunication networks and electrical traction systems etc.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Features

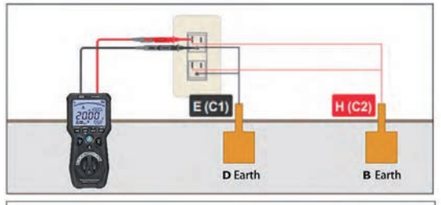
Capable of measuring earth voltage
Data hold , MAX/MIN function.
Auto power off function: The timeroperates automatically about 3 minuteswhen the "Test Button Switch" arepressed to keep the tester power on.
2mA measuring current permits earthresistance tests without tripping earthleakage current breakers in the circuitunder test.
In addition to the facility for precisionmeasurement,test leads for simplified twowire measuring system also supplied asstandard accessories.
Automatic warning when resistance ofauxiliary earth. Spikes is in excess oftolerance.
Designed to meet EN61010-1 safetystandard.
Zero ohm adjustment

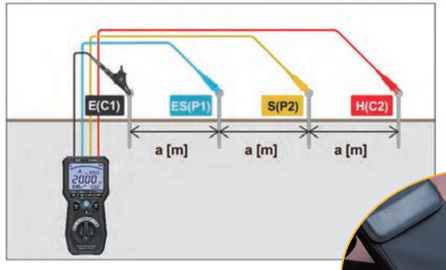
Specifications

	Range	Max Resolution	Accuracy
Earth resistance	40Ω	0.01Ω	±2%rdg ±0.1Ω
	400Ω	0.1Ω	±2%rdg ±3dgts
	4000Ω	1Ω	±2%rdg ±3dgts
Voltage AC	750V	1V	±1.2%rdg ±10dgts
Voltage DC	1500V	1V	±0.8%rdg ±3dgts
Resistance	400kΩ	0.1kΩ	±1.0%rdg ±2dgts
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0ºC~40ºC(<80%R.H.)		
Storage Temp	-10ºC~60ºC(<70%R.H.)		
Power Source	1.5V “AA” battery x 6		



Model 6503E









Size(HxWxD): 200mm x 92mm x 50mm
Weight: 582g

Accessories: Test leads, 6x1.5V “AA” batteries, Rubber holster, 4-wire cable and iron rod x 2, gift box with carrying case.

BT-3700
Battery Analyzer



Model BT-3700



3700 Battery Analyzer is ideal test tool for maintenance, troubleshooting and performance testing of individual stationary batteries and battery banks used in critical battery back-up applications. 3700 Battery Analyzers cover wide range of battery test functions ranging from DC voltage and resistance tests to full condition testing using an automated string function testing and the test probe integrated infrared temperature measurement system. 3700 Battery Analyzer is designed for measurements on stationary batteries of all types.

Reduced testing complexity, a simplified workflow and an intuitive user interface provide a new level of ease-of-use in battery testing.

- The ideal test tool for maintenance, troubleshooting and performance testing of individual stationary batteries and battery banks used in critical battery back-up applications
- The intuitive user interface, portable design and rugged construction ensure optimum performance, test results and reliability
- Covers wide range of battery test functions ranging from DC voltage and resistance tests to full condition testing using automated string function testing and the test probe integrated infrared temperature measurement system
- Designed for measurements on stationary batteries of all types.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

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Features

Key measurements: Battery resistance, DC and AC voltage, DC and AC current, ripple voltage, frequency and battery temperature
Sequence measurement mode: Automatic or manual sequence testing of battery strings with automatic measurement storage including voltage, resistance and temperature
Comprehensive logging: All measured values are automatically captured during testing and can be reviewed on the instrument before downloading for further analysis
Optimized user interface: Quick, guided setup ensures the right data is captured every time, and the combined visual and audio feedback cues reduce the risk of measurement confusion
Safety CAT III 1000V, CAT IV 600V

Specifications

Function	Max Range	Max Resolution	Basic Accuracy
Battery resistance	3mΩ	0.001 mΩ	1 % + 8
	30mΩ	0.01 mΩ	0.8 % + 6
	300mΩ	0.1 mΩ	0.8 % + 6
	3000mΩ	1 mΩ	0.8 % + 6
DC V	6V	0.001V	0.09 % + 5
	60V	0.01V	0.09 % + 5
	600V	0.1V	0.09 % + 5
	1000V	1V	0.09 % + 5
ACV (45 Hz to 500 Hz with 800 Hz filter)	600V	0.1V	2 % + 10
Frequency (displayed with AC V and AC A)	500Hz	0.1Hz	0.5 % + 8
AC voltage ripple (20 KHz Max)	600mV	0.1mV	3 % + 20
	6000mV	1V	3 % + 10
Temperature	0 °C to 60 °C	1 °C	2 °C (4 °F)
Meter mode	999 records for each measurement position with time stamp		
Sequence mode	Up to 100 profiles and 100 profile templates (Each profile stores up to 450 batteries) with time stamp		

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 586g

Accessories:
Test leads, 6x1.5V“AAA” batteries, Type K temperature probe and Software, gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-6507H
Multifunction Electrical Installation Meter

6507H is an all-in-one test device, which has the measurement functions of voltage, resistance, phase sequence, harmonic, loop impedance, RCD and so on. They can identify and measure the voltage harmonics, frequency, duty cycle and phase sequence to judge whether the power grid voltage is normal. Continuity test and resistance measurement can measure the conductor resistance and judge whether the conductor contact is good. The loop impedance test can measure the loop resistance with electricity, and the $Z_{L\text{-}PE}$ RCD measurement can make the RCD above 30mA not trip. RCD test can detect whether RCD works normally.

Features:

- Voltage, phase sequence, frequency, duty cycle and harmonic measurement
- Data record
- Loop impedance measurement
- Loop impedance measurement of RCD not tripping above 30mA
- AC, type a RCD test
- Bluetooth



Model 6507

Specifications

Function	Range	Resolution	Accuracy
AC Voltage	0.0~500.0V	0.1V	±(2.0% + 5 digits)
Frequency	10.0~1000.0Hz	0.1Hz	±(2.0% + 5 digits)
Duty cycle	0.0~100.0%	0.1%	±(2.0% + 5 digits)
$Z_{L\text{-}PE}$, $Z_{L\text{-}N}$, $Z_{L\text{-}L}$	0.0~19.99Ω	0.01Ω	±(5.0% + 5 digits)
	20.0~199.9Ω	0.1Ω	±(5.0% + 5 digits)
	200~9999Ω	1Ω	±(5.0% + 5 digits)
$Z_{L\text{-}PE\ RCD}$	0.0~19.99Ω	0.01Ω	±(6.0% + 10 digits)
	20.0~199.9Ω	0.1Ω	±(6.0% + 5 digits)
	200~9999Ω	1Ω	±(6.0% + 5 digits)
Low-voltage continuity	0.00~19.99Ω	0.01Ω	±(2.0% + 3 digits)
	20.0~199.9Ω	0.1Ω	±(2.0% + 3 digits)
	200~400Ω	1Ω	±(2.0% + 3 digits)
Low-current resistance measurement	0.0~199.9Ω	0.1Ω	±(3.0% + 3 digits)
	200~1999Ω	1Ω	±(3.0% + 3 digits)

R_E-protective conductor resistance for RCD

Selected RCD rated current	Measurement range	Resolution	Test current	Basic uncertainty
10 mA	10~5000Ω	10Ω	4 mA	0~+10%±8digits
30 mA	10~1660Ω		12 mA	0~+10%±5digits
100 mA	1~500Ω	1Ω	40 mA	0~+5%±5digits
300 mA	1~166Ω		120 mA	
500 mA	1~100Ω		200 mA	

RCD I_Δ tripping current measurement for sinusoidal residual current

Selected RCD rated current	Measurement range	Resolution	Test current	Basic uncertainty
10 mA	3.3~10.0 mA	0.1 mA	0.3 x IΔn ~ 1.0 x IΔn	±0.5% IΔn
30 mA	9.0~30.0 mA			
100 mA	33~100 mA	1 mA		
300 mA	90~300 mA			
500 mA	150~500 mA			

RCD I_Δ tripping current measurement for unidirectional pulsating residual current

Selected RCD rated current	Measurement range	Resolution	Test current	Basic uncertainty
10 mA	4.0~20.0 mA	0.1 mA	0.35 x IΔn ~ 2.0 x IΔn	±10% IΔn
30 mA	12.0~42.0 mA		0.35 x IΔn ~ 1.4 x IΔn	
100 mA	40~140 mA	1 mA		
300 mA	120~420 mA			

RMS leakage current during the RCD tripping time measurement

IΔn	Multiplication factor setting							
	0.5		1		2		5	
	∿	⎍	∿	⎍	∿	⎍	∿	⎍
10	5	3.5	10	20	20	40	50	100
30	15	10.5	30	42	60	84	150	210
100	50	35	100	140	200	280	500	-
300	150	105	300	420	-	-	-	-
500	250	175	500	-	-	-	-	-

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, 6 x1.5V“AA” batteries, Software, gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



DT-9985/9985B/9985RF/9986

Insulation Tester with True RMS Multimeter

The Insulation Multimeter combines a digital insulation tester with a full-featured, True RMS digital multimeter in a single, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.



Model 9985B



Model 9985RF

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

Features

	9985	9985B/9985RF	9986
Save both time and money with Automatic calculation of Polarization Index and Dielectric Absorption Ratio			*
Slim probes designed with test button		9985B	
200 mA Continuity			*
Compare function (pass/fail) for fast repeatitive tests			*
Insulation test voltages 125V, 250V, 500V, 1000V	*	*	*
Insulation test: 0.001MΩ to 4000MΩ	*	*	*
Auto discharge of capacitive voltage	*	*	*
Insulation test smoothing reading	*	*	*
Min/Max function	*	*	*
K-type thermocouple	*	*	*
Rugged, utility hard case	*	*	*
Auto power off to save battery power	*	*	*
True RMS	*	*	*
Large LCD display with backlight	*	*	*
CAT III 1000V, CAT IV 600V measurement category	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*
Wireless USB interface		*	

Specifications （9985/9985B/9985RF/9986）

Multimeter

Function	Max Range	Resolution	Basic Accuracy
DC Voltage	1000V	0.1V	±(0.06% reading + 4 digits)
AC Voltage	1000V	0.1V	±(1.0% reading + 30 digits)
DC Current	10A	0.001A	±(1.0% reading + 3 digits)
AC Current	10A	0.001A	±(1.5% reading + 30 digits)
Resistance	40MΩ	0.0001MΩ	±(0.3% reading + 4 digits)
Frequency	40MHz	0.01MHz	±(0.1% reading + 1 digits)
Duty Cycle	0.1 to 99.90%	0.01%	±(1.2% reading + 2 digits)
Temperature	-50 to 1200°C	0.1°C	±(1.0% reading + 2.5°C)
	-58 to 2192°F	0.1°F	±(1.0% reading + 4.5°F)
4-20mA%	-25 to 125%	0.01%	±50 digits

Insulation

Terminal Voltage	Range	Resolution	Accuracy	Test Current	Short circuit current
125V(0% ~10%)	0.125~4.000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ	≤1mA
	4.001~40.00MΩ	0.01MΩ	±(2%+10)		
	40.01~400.0MΩ	0.1MΩ	±(4%+5)		
	400.1~4000MΩ	1MΩ	±(5%+5)		
250V(0% ~10%)	0.250~4.000MΩ	0.001MΩ	±(2%+10)	1mA @load250kΩ	≤1mA
	4.001~40.00MΩ	0.01MΩ	±(2%+10)		
	40.01~400.0MΩ	0.1MΩ	±(3%+5)		
	400.1~4000MΩ	1MΩ	±(4%+5)		
500V(0% ~10%)	0.500~4.000MΩ	0.001MΩ	±(2%+10)	1mA @load1500kΩ	≤1mA
	4.001~40.00MΩ	0.01MΩ	±(2%+10)		
	40.01~400.0MΩ	0.1MΩ	±(2%+5)		
	400.1~4000MΩ	1MΩ	±(4%+5)		
1000V(0% ~0%)	1.000~4.000MΩ	0.001MΩ	±(3%+10)	1mA @load1MΩ	≤1mA
	4.001~40.00MΩ	0.01MΩ	±(2%+10)		
	40.01~400.0MΩ	0.1MΩ	±(2%+5)		
	400.1~4000MΩ	1MΩ	±(4%+5)		

Size(HxWxD): 220mm x 96.5mm x 60.5mm
Weight: 631g

Accessories:
Test leads, 6x1.5V“AAA” batteries, Type K temperature probe, USB cable and Software(9985RF/9986), gift box with carrying case.

DT-6615H

High Voltage Insulation Resistance Tester

5 kV, 10 kV, 15 kV DC resistance tester is high voltage insulation resistance tester, used for insulation resistance, solar Photovoltaic voltage, low resistance test, etc. Suitable for, transformers, motors, cables, switches, electrical appliances and other power equipment and insulation material testing, industrial and energy power testing, etc. At the same time, with step voltage adjustment function, can output a variety of levels of voltage, with solar cell detection, hard shell design, safety level up to CATIV1000V, data storage and Bluetooth communication.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 1000V



Model 6615H

Features

6000 Counts LCD With Backlight Display.
Measure insulation resistance up to 10 TΩ (5 kV)/30 TΩ (10 kV)/50 TΩ (15 kV)
AC True-RMS measurement
200 mA/20mA Continuity & Low Ohm range measurement
2000VDC measurement for Photovoltaic output
Lock power on function for hands-free operation
Data Hold
Bluetooth interface for easy data transfer
Auto discharge of voltage test signal
Setup function & save measurement
Analog Barograph
3000A Flexible Coil Current Measurements (Optional)
Input terminal LED indication
Step voltage regulation
CAT IV 1000V measurement category
PI/DAR timed ratio tests

Specifications

Function	Maximum	Max, resolution	Basic Accuracy	
Voltage DC	1000V	10mV	±(0.5% + 5 digits)	
Voltage AC	1000V	10mV	±(0.8%+8 digits)	
Current AC	3000A	0.01A	±(2.5% + 10 digits)	
PV Voltage	1500V	1V	±(2.0% + 5 digits)	
Low Resistance/ Continuity	100Ω(200mA)	10 mΩ	±(1.2% + 5 digits)	Max. open Circuit Voltage 5V
	1KΩ(20mA)	10 mΩ	±(1.2% + 4 digits)	
Power Supply	Li-ion battery			

Insulation Tester

Terminal Voltage	Range	Max Resolution	Accuracy
500V(±10%)	100GΩ	0.1GΩ	±(5%-10% + 5 digits)
	1000GΩ	1GΩ	±(20% + 5 digits)
1000V(±10%)	500GΩ	0.1GΩ	±(5%-10% + 5 digits)
	5000 GΩ	1GΩ	±(20% + 5 digits)
2500V(±10%)	500GΩ	0.1GΩ	
	5 TΩ	0.01TΩ	±(20% + 5 digits)
5000 V(±10%)	100GΩ	0.1GΩ	±(5%-10% + 5 digits)
	10TΩ	0.01TΩ	±(20% + 5 digits)
10000 V(±10%)	500GΩ	0.1GΩ	
	30TΩ	0.01TΩ	±(35% + 5 digits)
15000 V(±10%)	600 GΩ	0.1GΩ	±(5%-10% + 5 digits)
	50 TΩ	0.01TΩ	±(35% + 5 digits)

Size (HxWxD): 276mm x 267.5mm x 148mm
Weight:1500g
Accessories: Test leads, Li-ion battery, 1500V Photovoltaic Voltage test probe, 15000 Voltage test probe, Temperature Probe, carrying case and gift box, with 320B (Optional)



DT-5505
Insulation Tester

- *Double molded plastic housing*
- *CAT III 1000V*

Large dual LCD display with bargraph

When doing power installation, 5505 can provide some special help. When doing insulation test, it can provide 125V,250V, 500V and 1000V source for the test and under each range it can supply more 1mA current to feet the capacitance load. With the auto-range function, it can measure up to 4000 MegaOhm with the resolution of 1Kohm. These characteristics are also specified in the safety regulations in CE document.

- Auto-discharge of capacitive voltage for added user protection
- Live circuit detection prevents insulation test if voltage >30V is detected for added user protection
- Min/Max recording & Data Hold
- 1mA test current for MegOhm range at rated voltage
- 200mA short current for continuity range
- Additional test voltages 125V,250V,500V,1000V



Model 5505

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Features

Meets IEC10101, CATIII 1000V
Large dual display with analog bargraph & backlight
Test hold & lock function for easy operation
Easy to carry testing package
Over range Indication
Low Battery Indication

Specifications

	Range	Max Resolution	Basic accuracy
Voltage AC	750V	1V	±1.2%rdg ±10dgts
Voltage DC	1000V	1V	±0.8%rdg ±3dgts
Resistance	40Ω, 400Ω	0.01Ω, 0.1Ω	±1.5%rdg ±6dgts
Insulation Resistance	4M,40M,400M,4000MΩ	1kΩ~1MΩ	±2.0%rdg ±6dgts
Test Voltage & Current	125V/250V/500V/1000V & 1mA nominal		
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0ºC~40ºC(<80%R.H.)		
Storage Temp	-10ºC~60ºC(<70%R.H.)		



Accessories:
Test leads, 6x1.5V “AA” batteries and gift box with carrying case.

Size(HxWxD): 200mm x 92mm x 50mm
Weight: 582g



DT-5500/5520/5530
Insulation Testers

- 1mA test current for MegOhm range at rated voltage
- 200mA short current for continuity range

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

- *Double molded plastic housing*
- *CAT III 1000V*

Features

	5500	5520	5530
Meets IEC10101, CATIII 1000V	*	*	*
Large dual display with backlight	*	*	*
Test hold function for easy operation	*	*	*
Easy to carry testing package	*	*	*
Over range indication	*	*	*
Low battery indication	*	*	*
Measurement range(Ω)	200M/2000M	20M/200M/2000M	20M/200M/2000M

Specifications

	Range	Max Resolution	Accuracy
Voltage AC	750V	1V	±1.2%rdg ±10dgts
Voltage DC	1000V	1V	±0.8%rdg ±3dgts
Resistance	200Ω, 2000Ω	0.1Ω, 1Ω	±1%rdg ±2dgts
Insulation Resistance	200MΩ, 2000MΩ	100kΩ~1MΩ	±3.5%rdg ±5dgts
	20MΩ(5520 only)	10kΩ	±3.5%rdg ±5dgts
Test Voltage	250V-200MΩ/500V-200MΩ/1000V-2000MΩ, (500V-20MΩ only 5520)		
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0ºC~40ºC(<80%R.H.)		
Storage Temp	-10ºC~60ºC(<70%R.H.)		







Model 5500

Size(HxWxD): 200mm x 92mm x 50mm **Weight:** 582g

Accessories: Test leads, 6x1.5V “AA” battery and gift box with carrying case.

DT-5503 Analogue Insulation Tester

The 5503 is a highly compact and easy to use Insulation and Continuity Tester. The instrument offers three insulation test ranges: 250V, 500V and 1000V, a 3Ω continuity range and a 500Ω resistance range. This meter is not only equipped with a “Live Circuit Warning” but also displays the actual AC voltage measurements of the mains supply.

Specifications

DC Test Voltage	250V 500V 1000V
Measuring Ranges (Mid-Scale Value)	0-100MΩ(1MΩ);0-200MΩ(2MΩ);0-400MΩ(4MΩ)
Rated Current	1mA DC+20%, -0%
Output short Circuit Current	1.3mA DC approx
Accuracy Guaranteed Ranges	0.05-10MΩ ±5%; 0.1-20 Ω ±5%; 0.2 -40MΩ ±5%;
Accuracy	±7% of Scale length at ranges other than above ranges

Continuity Test Ranges

Accuracy	±1.5% of Scale Length
Open Circuit Voltage Output	4.1VDC (Approx)
Short Circuit Current Output	210mA Min

AC Voltage Warning

AC Voltage Range	0-600V AC for 30 seconds
Accuracy	±5% of Scale Length
Input Impedance	1.2MΩ

General

Withstand Voltage	7400V AC 50Hz or 60Hz for one minute between electrical circuits and housing case
Safety Standards	IEC 61010-1 CAT III



Model 5503

Size(HxWxD): 200mm x 92mm x 50mm
Weight: 546g

Accessories:
Test leads, 6x1.5V “AA” batteries and gift box with carrying case.

DT-5300/5300B

Earth Ground Resistance Testers



Model 5300B

EN 61010-1 CAT III 1000V

Electronic Digital Earth Resistance Tester is direct replacement of the conventional hand generator type tester. It is designed for measurement of the resistance of earthing used in the electrical equipment as well as for measurement of ground resistivity. It can be used for measurements of the other low regular and liquid resistances. It can also be used for measurement of voltage AC, voltage DC and resistance.

This instrument has wide application for testing earthing installation in power based industries, tele-communication networks and electrical traction systems etc.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

- *Double molded plastic housing*
- *CAT III 1000V*

Features

Meets IEC10101, CAT III 1000V
Large dual display with backlight
Test hold function for easy operation
Zero Automatic adjustment
Sampling Rate: 2.5 times per second
Low Battery Indication



Specifications

	Range	Max Resolution	Accuracy
Earth resistance	10Ω	0.01Ω	±2%rdg ±0.1Ω
	100Ω	0.1Ω	±2%rdg ±3dgts
	1000Ω	1Ω	±2%rdg ±3dgts
Voltage AC	750V	1V	±1.2%rdg ±10dgts
Voltage DC	1000V	1V	±0.8%rdg ±3dgts
Resistance	200kΩ	0.1kΩ	±1.0%rdg ±2dgts
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0ºC~40ºC(<80%R.H.)		
Storage Temp	-10ºC~60ºC(<70%R.H.)		
Power Source	1.5V “AA” battery x 6		

Size(HxWxD): 200mm x 92mm x 50mm
Weight: 582g

Accessories:
Test leads, 6x1.5V “AA” batteries, Rubber holster, 4-wire cable and iron rod x 2, gift box with carrying case.



DT-5301 LOOP/PSC Tester

Custom microprocessor controlled for highest accuracy and reliability

- 3 LEDs for checking correct wiring status
- 15mA LOOP measurement: LOOP impedance 2000Ω range measurement is carried out with low test current(15mA)
- Direct reading of Prospective Short Circuit Current(PSC)
- Safe voltage measurement function
- Large custom digital display readout on all models
- Measure low loop resistance(resolution of 0.01Ω)
- Automatic lock-out if test resister overheats
- Visual indication of reversed phase and neutral wiring at socket

- *Double molded plastic housing*
- *CAT III 600V*

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

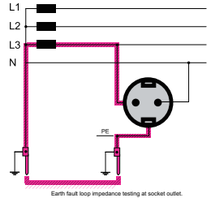
EN 61010-1 CAT III 600V



Model 5301

Specifications

	Max Resolution	Accuracy
Loop Impedance	20/200/2000Ω	±2.5% rdg ±4dgts
AC Test Current	20Ω 25A; 200Ω 2.3A;2000Ω 15mA	±2%rdg ±5dgts
AC Test Period	20Ω 20ms; 200Ω 40ms;2000Ω 280ms	±2%rdg ±5dgts
PSC	200A (2.3A 40ms); 2000A(25A 20ms);	Consider accuracy impedance
	20KA (25A 20ms)	
Voltage	50V ~ 250V	±2%rdg ±5dgts
Resistance	0.1kΩ	±1.0%rdg ±2dgts
Operating Voltage	230V + 10% - 15% (195V ~ 253V) 50Hz	
Safety Standard	IEC61010-1 CATIII 600V	



Size(HxWxD): 200mm x 92mm x 50mm
Weight: 582g
Accessories: Test leads, 6x1.5V “AA” batteries, gift box with carrying case.

DT-5554

RCD Tester



Model 5554

- *Double molded plastic housing*
- *CAT III 1000V*

EN 61010-1 CAT III 1000V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Custom microprocessor controlled for highest accuracy and reliability

- Safe voltage measurement function
- Large custom digital display readout on all models
- Visual indication of reversed phase and neutral wiring at socket

Specifications

Measurement specifications	Ranges	resolution	accuracy
Nominal test current	10/30/100/500mA/1A		(-2%+10%)+6Digits
Current selection	0.5x, 1x, 2x, 5x nominal current		
Trip time	10-2000 ms at 0.5x	1 ms	±(2%rdg. + 2Digits)
	10-500 ms at 1x		
	10-150 ms at 2x		
	10-40 ms at 5x		
Ramp test	0.4x to 1.4 times nominal rated current		10%
Mains voltage	230(+10%/ -10%)V	1V	±(2%rdg. + 2Digits)



Size(HxWxD): 200mm x 92mm x 50mm
Weight: 582g
Accessories:
Test leads, 6 x1.5V “AA” batteries, gift box with carrying case.

DT-5302 DMM with Kelvin(4-wire) small resistance measurement

- Four terminal Kelvin measurement
- 4000 counts $3^3/4$ digital LCD display with backlit
- High resolution to 0.1mΩ with test current to 200mA
- Low battery indication
- Over load protection on all ranges

- *Double molded plastic housing*
- *CAT III 1000V*



Model 5302

Features

High accuracy, high resoltion portable Milliohm Meter or field use
Digital 4000 counts display
Safety design
Relative zero & Data Hold
MAX/MIN recording mode
Auto Power Off
400mΩ Low Resistance & Wide 40mF capacitance range
Diode Check & Continuity Test

EN 61010-1 CAT III 1000V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Specifications

Function	Max. Range	Basic Accuracy
Low Resistance	400mΩ, 4Ω, 40Ω	±(1.0%+5d)
Voltage DC	1000 V	±(1.0%+2d)
Voltage AC	1000V	±(1.2%+5d)
Current DC	400mA	±(1.0%+2d)
Current AC	400mA	±(1.2%+5d)
Resistance	40MΩ	±(1.0%+5d)
Capacitance	40mF	±(3.0%+10d)



Size(HxWxD): 200mm x 92mm x 50mm
Weight: 582g

Accessories:
Rubber holster, 4-wire cable, 6 x1.5V “AA” batteries, test leads, gift box with carrying case.

DT-6605
High Voltage Insulation Tester

- Wide range measurements from 500V to 5000V and up to 60GΩ.
- Large 6000 counts digital display with bargraph and backlight.
- Polarization index measurement(PI).
- Auto ranging & Timer measurement function.
- Indication of output voltage and discharge voltage.
- Indication of output voltage and discharge voltage.
- Auto-discharge function and voltage output warning function.
- Auto power off and battery check.
- MAX/MIN, PEAK, Relative value & Data hold functions for DC/AC voltage measurments
- Safety standard IEC61010-1 CAT IV 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V



Model 6605

Specifications

Function	Insulation resistance				Voltage	Resistance
Range	500V	1000V	2500V	5000V	AC/DCV	
Measuring range (Auto ranging)	0~6.000MΩ 6~60.00MΩ 60~600.0MΩ 600~6000MΩ	0~6.000MΩ 6~60.00MΩ 60~600.0MΩ 600~6000MΩ	0~60.00MΩ 60~600.0MΩ 0.6~6.000GΩ 6~60.00GΩ	60~60.00MΩ 60~600.0MΩ 0.6~6.000GΩ 6~60.00GΩ	0~600.0V (50~1kHz)	0~600.0Ω 600~6000Ω
Accuracy	±5%rdg ±3dgt ; ±20% (>6GΩ or more)				±1.5%rdg ±5dgt	±1.5%rdg ±10dgt
Short Circuit Current	1.3mA approx				-	
Rated test Current (at load Resistance)	1mA-1.2mA 0.5MΩ	1mA-1.2mA 1MΩ	1mA-1.2mA 2.5MΩ	1mA-1.2mA 5MΩ	-	
Open circuit voltage	500VDC/+20%-0%	1000VDC/+20%-0%	2500VDC/+20%-0%	5000VDC/+20%-0%	-	
Continuity check	Buzzer sounds at 50Ω					
Display	6000 Counts					
Current consumption	About 1000mA (During measurement)				25mA approx.	
Withstand voltage	5320V AC for 5 seconds					
Safety standard	IEC 61010-1 CAT IV 600V Pollution Degree 2					
Power supply	DC12V : R14 x 8					
Dimension	198 (L) x 148 (W) x 86 (D) mm					
Weight	1438g approx.					
Accessories	Test leads, Instruction manual and 120V/250V AC adaptor					

DT-7750
Appliance Tester

7750 Appliance Tester has been developed for measurements of the protective conductor resistance with compensation of the measuring line, insulating resistance, the protective conductor current, the contact current, the device leakage current , the leakage current of the applied part, and input voltage, input current, effective power and apparent power. It is for safety-related testing of electrical appliances in compliance with DIN VDE 0701-0702 and DIN VDE 0751-1

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 400V



Model 7750

Features:

- Measurement of the protective conductor resistance with compensation of the measuring line
- Measurement of the insulating resistance
- Measurement of the protective conductor current (alternative leakage current measurement, direct current measurement or differential current measurement method)
- Measurement of the contact current (alternative leakage current measurement, direct current measurement or differential current measurement method)
- Measurement of the device leakage current (alternative leakage current measurement, direct current measurement or differential current measurement method)
- Measurement of the leakage current of the applied part (alternative leakage current measurement or direct current measurement method)
- Functional test with measurement of input voltage, input current, effective power and apparent power
- Testing of IEC leads and extension cables

Specifications

	Range	Resolution	Accuracy	Internal resistance
Measurement of the alternative leakage current	0.050~25.000mA	0.001mA	At 230 V AC ±10% ±15% of the measured vaue	VDE 0701-0702 Ri 2k VDE 0751-1 Ri 1k
Measurement by means of the differential current measurement method	0.050~25.000mA	0.001mA	At 230 V AC ±10% ±15% of the measured vaue(from 100uA on) Manual / automatic pole reversall	VDE 0701-0702 Ri 2k VDE 0751-1 Ri 1k
Test socket(functional)	0.0~360V AC(50-60HZ)	0.1V	U(V) ±15% of the measured vaue	
	0.10~20A AC(50-60HZ)	0.01A	I(A) ±15% of the measured vaue	
	0~4000W	1W	P(W) ±15% of the measured vaue	
	0~4000VA	1VA	S(VA) ±15% of the measured vaue	
Safety extra-low voltage (PELV,SELV) measurement by means of probe	0.1~360 V AC/DC	0.1V	At 230 V AC ±10% ±15% of the measured vaue	
LOW Ohm				
				NOMINAL VALUES
LOW Ohm	0.00~20.00	0.01Ω	+(1.5%+5)	12.0V +1VDC
	RLO≤2.0Ω IN≥200mA	250Vrms		
	20.0~200.0Ω	0.1Ω		
	200~2000	1Ω		

Insulation Specifications

Terminal Voltage	Range	Resolution	Accuracy	Test Current	Short circuit current
1000V (0%~+10%)	1.000~4.000 MΩ	0.001MΩ	+(3%+10)	1mA @load1MΩ	≤1mA
	4.001~40.00 MΩ	0.01MΩ	+(2%+10)		
	40.01~400.0 MΩ	0.1MΩ	+(3%+2)		
	400.1~1000 MΩ	1MΩ	+(4%+5)		

Size(HxWxD): 410mm x 300mm x 171mm **Accessories :** Test leads, Software and gift box.
Weight: 2.8kg



AC Current and Voltage Dataloggers

- Large capacity for storing measuring data points
- ACA current clamp sensor (CP-09)
- Voltage sensor measure the floating voltage to meet CAT III 600V
- LCD to show some logging information easily
- Freely selectable measurement cycle from 1sec. to 24h
- Download collected data through USB interface
- Alarm display if user-defined max/min values exceed
- Analysis software used to view graph for logging data

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

DT-195CVS

AC Voltage Power Recorder with Dataloggers

The 195CVS is a datalogger for measuring and recording current ,voltage , active power, apparent power, Power Factor and Electrical Energy
The readings are saved in the logger and simply read out by your smartphone bluetooth interface.
The LCD can show measuring readings, MAX,MIN and alarm indication.

True RMS ACV/ACA | DATA LOGGER | PC interface

EN 61010-1 CAT III 600V

Features

Record and software features include
Configurable recording interval
Graphical and spreadsheet data summaries
Min, Max, Average RMS values with time stamps
Transient waveform recording
Bluetooth interface
Print tables, graphs and comprehensive formatted reports
View, print and export data

Specifications

	Range	resolution	Accuracy
AC Voltage	1-600V	1V	±(1.5% +5)
AC Current	1-200A	1A	±(1.5% +5)
Active Power	0-120000w	1W	P(W) ±15% of reading
Apparent power	0-120000VA	1VA	S(VA) ±15% of reading
Power Factor	0-1	0.01	±(5% +3)
Input channel	Dual		
Frequency range	50/60Hz		
Reading memories	100000		
Measuring rate	1 sec. to 60min		
Analysis software	Windows 98 /2000/XP/Vista/Win7/8/10		



Model 195CVS

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

DT-175CVS/175CV1/176CV2 AC Current and Voltage Dataloggers

The 175CVS is a datalogger for measuring and recording current and voltage.
The 175CV1/176CV2 are dataloggers for measuring and recording True RMS current and voltage.
The readings are saved in the logger and simply read out by your PC via USB interface.
The LCD can show current readings, MAX, MIN and alarm indication.

Features

	175CVS	175CV1	176CV2
Input channel	Dual	Single	Dual
Digital LCD Display	*	*	*
ACV/Load current/Leakage current measurement	*	*	*
True RMS measurement		*	*
Data memory	100,000	100,000	256,000
Wave memory		*	*
MAX / MIN, Peak mode	MAX / MIN	*	*
Time & Date Display	*	*	*
Wave store		*	*
Auto power off	*	*	*
USB interface	*	*	*
Manual and Automatic mode	*	*	*

Specifications

Function	Range	Basic Accuracy	175CVS	175CV1	176CV2
AC Current (True RMS)	2-200A	±2%	*	*	*
AC Voltage (True RMS)	6-600V	±1.5%	*	*	*
Reading Memories			100,000	100,000	256,000
Measuring rate	1 sec. to 24h				
Analysis software	windows 98/2000/XP/Vista/Win7/8/10				

Size(HxWxD): 114mm x 63mm x 34mm
Weight: 248g
Accessories : ACA current clamp-on adaptor (CP-09), USB cable, Software, battery and gift box.



Model 176 CV2

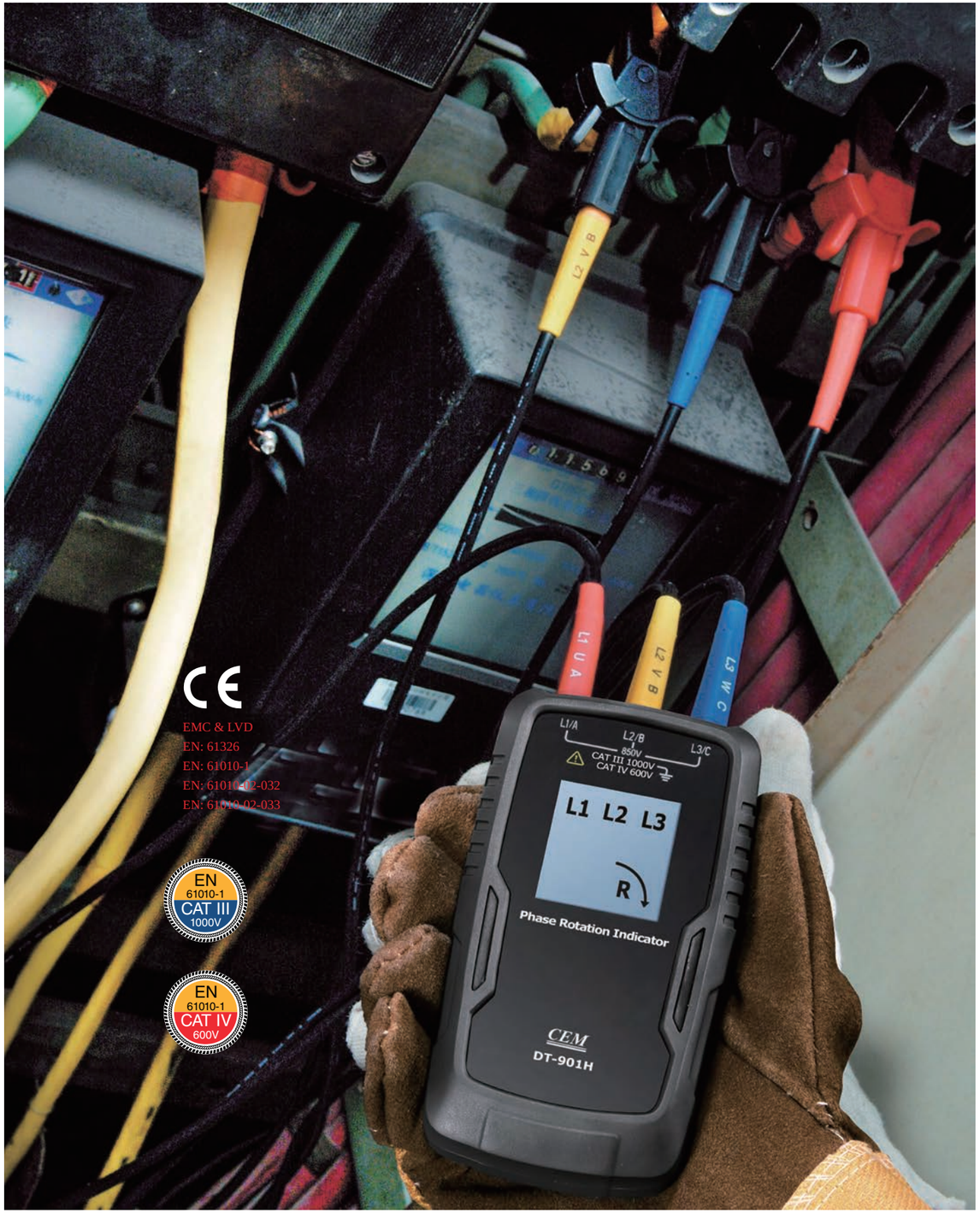
EN 61010-1 CAT III 600V



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Phase Rotation Indicator



The Phase Rotation Indicator is a handheld instrument designed to detect the rotary field of three-phase systems.

- 3 Phase indication
- Indication of phase rotation
- Clear LCD display
- No battery required

Features	
Nominal voltage	40V to 690V AC
Frequency range	15 to 400Hz
Current pickup	1mA
Nominal test current(per phase)	1mA
Power supply	From unit under test
Electrical safety	IEC61010/EN61010; IEC61557-7/ EN61557-7
Protection level	CAT IV 600V
Type of protection	IP40
Operating temperature	0ºC to 40ºC

Size(HxWxD): 135mm x 73mm x 30mm
Weight: 195g

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 901H

DT-902H Motor and Phase Rotation Indicator

- Determine rotary field direction
- Non-contact rotary field indication
- Determine the motor connection
- Magnetic field detection

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 902H

The Motor and Phase Rotation Indicator is a handheld, battery-operated Instrument designed to detect the rotary field of three-phase system and determine motor-rotation direction.

Features	
Nominal voltage rotary direction	1V to 400V AC
Nominal Voltage phase indirection	120V to 400V AC
Frequency range	2 to 400Hz
Test Current (per phase)	< 3.5 mA
Electrical safety	DIN, VDE 0411, IEC61010 DIN;IEC61557-7/EN61557-7
Protection level	CAT IV 600V
Type of protection	IP40
Operating altitude	2000m
Operating temperature	0ºC to 40ºC

Size(HxWxD): 135mm x 73mm x 30mm
Weight: 195g

DT-904H Non-Contact Safety Phase Indicator

This is a Non-Contact Phase indicator and can indicate a presence of live line and phase sequence with the equipped LED and Buzzer while clipping the 3-phase line over the jacket of a conductor.

Features	
Voltage range	3-phase AC 70 to 1000V (voltage to earth, continuous sine wave)
Frequency range	45 to 66Hz
Electrical safety	IEC61010-1Measurement CAT III 1000V/CATIV-600VPollution degree 2IEC61010-031
Insulation resistance	10MΩ or more/ 1000V between the tip of Measurement clip and enclosure
Protection level	CAT IV 600V
Type of protection	IP40
Operating temperature	-10 to 50°C, relative humidity 80% or less(no condensation)

Size(HxWxD): 135mm x 73mm x 30mm
Weight: 195g

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V

- 3 Phase indication
- 3-phase AC70 to 1000V
- Indication of phase rotation



Model 904H

DT-901 Phase Rotation indicator

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

Model 901



The Phase Rotation Indicator is a handheld instrument designed to detect the rotary field of three-phase systems.

- 3 Phase indication
- Indication of phase rotation
- Clear LCD display
- No battery required

Features

Nominal voltage	40V to 690V AC
Frequency range	15 to 400Hz
Current pickup	1mA
Nominal test current(per phase)	1mA
Power supply	From unit under test
Electrical safety	IEC61010/EN61010; IEC61557-7/EN61557-7
Protection level	CAT III 600V
Type of protection	IP40
Operating temperature	0ºC to 40ºC

Size(HxWxD): 128mm x 68mm x 30mm
Weight: 185g

DT-902 Motor and Phase Rotation Indicator



The Motor and Phase Rotation Indicator is a handheld, battery-operated Instrument designed to detect the rotary field of three-phase system and determine motor-rotation direction.

- Determine rotary field direction
- Non-contact rotary field indication
- Determine the motor connection
- Magnetic field detection

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 902

Features

Nominal voltage rotary direction	1V to 400V AC
Nominal Voltage phase indirection	120V to 400V AC
Frequency range	2 to 400Hz
Test Current (per phase)	< 3.5 mA
Electrical safety	DIN, VDE 0411, IEC61010 DIN;IEC61557-7/EN61557-7
Protection level	CAT III 600V
Type of protection	IP40
Operating altitude	2000m
Operating temperature	0ºC to 40ºC

Size(HxWxD): 128mm x 68mm x 30mm
Weight: 185g

DT-903/903E Socket Polarity and Earth Leakage Tester

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032

EN 61010-1 CAT II 250V



Model 903E

903/903E Socket Polarity and Earth Leakage Tester tests 3 wire 220V AC outlets and earth leakage circuit breakers(ELCB).

Specifications

		903	903E
Power supply	From unit under test	*	*
Voltage test	150V to 250V (50/60Hz)		*
ELCB test	10mA, 15mA, 25mA, 30mA, 35mA	*	*
Socket polarity test	Identifies 5 common wiring faults	*	*
Electrical safety	IEC61010/EN61010; IEC61557-7/EN61557-7	*	*
Protection level	CAT II 250V	*	*
Type of protection	IP40	*	*
Operating temperature	0ºC to 40ºC	*	*

Size(HxWxD): 128mm x 68mm x 30mm
Weight: 185g

- 2000ms readout for testing latest delay action breakers.
- Fully programmed operation
- Accurate digital read out of tipping time
- Two neon lamps give quick check for correct wiring
- Operates from mains supply. No need for batteries
- Compact, light weight and simple to operate
- Zero cross circuit permits testing at 0°and 180°portion of sine wave at these two tests minimum(best) and maximum(worst) trip times will be displayed
- Data hold function to freeze the digital trip time displayed allows for easy readout and eliminates the possibility of reading error

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 904

Specifications

	Max Resolution	Accuracy
Trip current settings	5mA, 10mA, 30mA, 100mA, 300mA, 500mA	
Test Current (No Trip Test)	50% of circuit breaker trip current selected	2000mS ± 5%
Test Current (Trip Test)	100% of circuit breaker trip current selected	2000mS ± 5%
Test Current (Fast Trip Test)	250mA regardless of circuit breaker trip current selected	40mS ± 5%
Fault trip Time	2000mS (40mS for Fast Trip)	±2%rdg ±3dgts
Resistance	0.1kΩ	±1.0%rdg ±2dgts
Operating Voltage	220V, 230V, 240V AC ± 10%	± 3%

Size(HxWxD): 128mm x 68mm x 30mm
Weight: 185g

DT-905A Socket Polarity Tester

The new ergonomic, easy to use socket tester is designed to make the electricians job easier and is ideal for first level indication for testing standard mains sockets.

- Clear LED indication of wiring status
- Modern, ergonomic design
- Compact and durable
- Simple to use, just plug into socket for autotest

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 905A

DT-906A Socket Polarity and Earth Leakage Tester

906A is a professional socket tester with modern, ergonomic and durable design, to test the safety of installed mains socket.

906A also checks 30mA RCDs, a unique soft-touch button tests that an RCD in the circuit trips within 300ms when a nominal 30mA earth fault current is applied; a further button, the earth volts touchpad, detects raised earth voltages above 50V AC, thus indicating potentially dangerous installations.

Three vivid bicolour LEDs and a buzzer on 906A provide a quick-to-check combination of signals which indicate correct wiring, missing earth, live/neutral reverse, earth/live reverse, missing neutaral, live faults, and those errors detected by the two pushbutton tests.

Size(HxWxD): 69mm x 67mm x 32mm
Weight: 80g



Model 906A

DT-9054
RCD Tester







EN 61010-1 CAT III 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Features

Fully programmed operation
Accurate digital read out of tripping time and Current
450ms readout for testing latest delay action breakers
Two LED lamps give quick check for correct wiring
Compact, lightweight and simple to operate
Zero cross circuitry permits testing at 0° and 180° portion of sine wave

Specifications

Operational voltage	195V - 253V /45 - 65Hz
Trip current settings	10mA, 30mA, 100mA, 300mA, 500mA, 650mA
Trip current measurement accuracy	±10% ±2digits
Trip time ranges	0ms – 300ms
Trip time accuracy	±5% ±3digits
Ramp test	x0.4 to 1.1 times nominal rated current, accuracy±10 %

Size(HxWxD): 200mm x 70mm x 45mm **Weight:** 253g
Accessories: Test leads, 4 x 1.5V “AA” batteries and Clamshell.

Model 9054

DT-9053 Circuit Analyzer



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



9053 insulation test has been evaluated and complies with insulation category III (overvoltage category III). Pollution degree II in accordance with IEC-644 indoor use.

- Digital LCD display with backlit
- Display update for voltage less than 2.5 second
- Over-range indication on all functions
- ACV True RMS measurement

Specifications

	Range	Resolution	Accuracy
Line voltage	85.0~250.0 VAC	0.11V	±1.0%rdg ±0.2dgts
Peak line voltage	121.0~354.0 VAC	0.1V	±1.0%rdg ±0.2dgts
Frequency	45.0~65.0 Hz	0.1Hz	±1.0%rdg ±0.2dgts
%voltage drop	0.1% ~99.9%	0.1%	±2.5%rdg ±0.2dgts
Voltage loaded	10.0 ~ 250.0 VAC	0.1V	±2.5%rdg ±0.2dgts
Neutral-Ground V	0.0 ~ 10.0 VAC	0.1V	±2.5%rdg ±0.2dgts
Impedance-Hot neutral & Ground	0.00Ω~3.00Ω> 3Ω	0.01Ω	±2.5%rdg ±0.02dgts
GFCI Trip Time	1ms to 6.5ms counter	1ms	±1.0%rdg ±2ms
GFCI Trip Current	6.0 ~ 9.0mA	0.1mA	±1.0%rdg ±2mA
EPD Trip Current	30.0 ~ 37.0mA	0.1mA	±1.0%rdg ±2mA

Size(HxWxD): 200mm x 70mm x 45mm **Accessories:** Clamshell.
Weight: 206g

Model 9053

DT-9052 Earth and Continuity Tester

Principle of measurement by “fault loop” for installations with neutral as per diagram indication
Earth loop measurement current less than the drop-out threshold of the 30mA circuit breakers
Measurement of the earth resistance by 3 1/2 digit display from 0 to 1999Ω (resolution 1Ω measurement updated every 1.5s)

- Two-colour back-lit LCD display
- IEC 61010-1 EN 61557-4
- Installation category III
- Class II IP40 ,IK06

EN 61010-1 CAT III 600V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Specifications

Accuracy	+/-(3%+1dgt)for pure resistance (range 0-2000Ω at 23ºC+/-5ºC)
Operating voltage	230V(Ph/N)-10/+6%
Operating frequency	50/60Hz
Weight	340g
Size	210 x 72 x 50mm





Model 9052

DT-9055
Digital Earth Loop Tester

Principle of measurement by “fault loop” for installations with neutral as per diagram indication
Earth loop measurement current less than the drop-out threshold of the 30mA circuit breakers
Measurement of the earth resistance by 3 1/2 digit display from 0 to 1999Ω (resolution 1Ω measurement updated every 1.5s)

- Two-colour back-lit LCD display
- IEC 61010-1 EN 61557-4
- Installation category III
- Class II IP40 ,IK06

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V







Specifications

Measurement Range	Accuracy
0.0Ω -19.9Ω	± 0.8 Ω
19.9Ω -99.9Ω	± 6.5 Ω
100Ω -999Ω	± 7.5 Ω
1.00kΩ -2.00kΩ	± 16.0 Ω
Operating voltage	230V(Ph/N)-10/+6%
Operating frequency	50/60Hz

Size(HxWxD): 195mm x 70mm x 48mm **Weight:** 415g
Accessories: Clamshell.

Model 9055

DT-9056 Digital Earth Loop Tester

9056 insulation test has been evaluated and complies with insulation category III (overvoltage category III). Pollution degree II in accordance with IEC-644 indoor use.

- Digital LCD display with backlit
- Display update for voltage less than 2.5 times/second
- Over-range indication on all functions
- ACV True RMS measurement

Specifications

	Range	Resolution	Accuracy
Line voltage	85.0~250.0 VAC	0.1V	±1.0%rdg ±0.2dgts
Peak line voltage	121.0~354.0 VAC	0.1V	±1.0%rdg ±0.2dgts
Frequency	45.0~65.0 Hz	0.1Hz	±1.0%rdg ±0.2dgts
%voltage drop	0.1% ~99.9%	0.1%	±2.5%rdg ±0.2dgts
Voltage loaded	10.0 ~ 250.0 VAC	0.1V	±2.5%rdg ±0.2dgts
Neutral-Ground V	0.0 ~ 10.0 VAC	0.1V	±2.5%rdg ±0.2dgts
Impedance-Hot neutral & Ground	0.00Ω~3.00Ω> 3Ω	0.01Ω	±2.5%rdg ±0.02dgts
GFCI Trip Time	1ms to 6.5ms counter	1ms	±1.0%rdg ±2ms
GFCI Trip Current	6.0 ~ 9.0mA	0.1mA	±1.0%rdg ±2mA
EPD Trip Current	30.0 ~ 37.0mA	0.1mA	±1.0%rdg ±2mA

Size(HxWxD): 195mm x 70mm x 48mm **Accessories:** Clamshell.
Weight: 415g

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 9056

DT-9057 AFCI, GFCI and AC Circuit Analyzer

Quickly checks for correct wiring of AC outlet load handling capabilities plus Outlet Tester functions

Features

- Outlet Tester functions:AFCI
- GFCI Trip Current
- GFCI Trip Time
- EPD Trip Current
- Neutral to Ground Voltage
- Hot, Neutral and Ground Impedance
- Open or Reversed wiring
- AC Load Tester:Selectable loads of 12, 15 and 20 Amps
- Measures loaded and unloaded AC Line Voltage
- Calculates and displays % Voltage Drop and Line Impedance
- Displays Peak Line Voltage and Frequency
- Over-Temperature protection
- Complete with AC test cord

Specifications

Measurement Range	Accuracy
AC Voltage	85.0 to 250.0V
Frequency	45.0 to 65.0Hz
Peak Line Voltage	350.0V
% Voltage Drop	0.1 to 99.9%

Size(HxWxD): 195mm x 70mm x 48mm
Weight: 415g
Accessories: Clamshell.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V



Model 9057

Cable Locator



The cable locator is a professional general purpose cable locator. It is ideal for tracing cables in walls and underground, locating fuses/breakers on final circuits and locating interruptions and short-circuits in cables and electrical floor heating systems. It can also be used for tracing metallic water and heating pipes. The unit is supplied as a complete kit comprising of a transmitter and receiver in a purpose-made carry case. The receiver also incorporates a torch function for working in dimly lit locations.

- For all applications (live or dead cables) without additional instruments
- Set includes a transmitter and a receiver
- Proven digitally coded sender signal guarantees clear signal identification
- Transmitter with LCD-display for transmitting level, transmitting code and external voltage
- Receiver with backlight LCD-display for level of receiving signal, code of receiving signal and live voltage indication
- Automatic or manual adjustment of receiving signal sensitivity
- Acoustical receiving signal switchable
- Auto Power Off
- Additional torch lamp function for working in dark environment
- Additional transmitters are available for extension of to distinguish between several signals



Model LA-1012B Transmitter



Model LA-1012 Receiver

Technical Specifications	
Voltage measurement range	Transmitter: 12V, 50V, 120V, 230V, 400V
Frequency range	Transmitter: 0...60Hz
Output signal	Transmitter: 125kHz
Voltage	Transmitter: Up to 400V AC/DC
Tracing depth cable location	Receiver: 0...2.5 m wall/underground cables
Main voltage detection	Receiver: 0...0.4 m
Environmental Specifications	
Operating temperature	Transmitter: 0 to 40ºC; Receiver: 0 to 40ºC
Storage temperature	Transmitter: -20ºC to 60ºC ; Receiver: -20ºC to 60ºC
Humidity (without condensation)	Transmitter: Max. 80% relative; Receiver: Max. 80% relative
Operating altitude	Transmitter: Up to 2000 m; Receiver: Up to 2000 m
Safety Specifications	
Electrical safety	EN 61010-1
Overvoltage category	CAT III 300V

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 300V

LA-1012:
Size(HxWxD): 190mm x 60mm x 37mm
Weight: 229g
LA-1012B:
Size(HxWxD): 128mm x 68mm x 30mm
Weight: 185g

Accessories:
2 x 9V batteries, Crocodile clips, Test leads and gift box with carrying case.









Model AC-17

Model AC-17F

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 1000V

The AC-17/17F is a non-contact voltage tester with laser infrared thermometer, the highlight led to display the measurement results.

Features:

- Wide measuring temperature range and high accuracy
- Wide range of AC voltage detection
- Highlight the led to display the measurement results
- High safety of non-contact measurement
- System self-test
- Auto power off
- Low battery indication
- Flashlight Function (AC-17F)

Specifications

	AC-17	AC-17F
Detection Voltage Range	12-1000VAC	12-1000VAC, 100-1000VAC
Frequency Range	50/60Hz	
Detection Temperature Range	-30 to 280°C（-22 to 536°F）	
Temperature Resolution	0.1°C/°F	
Laser Type	Class 1	
Laser Distance-To-Spot Ratio	4:1	
Temperature Accuracy	±3°C(5.4°F) at -30 to 20°C(-22 to 68°F) ±2.0% or ±2°C(3.6°F) at 21 to 280°C(69 to 536°F)	
Batteries	Two AAA 1.5V batteries	
Operating Temperature	0 to 50°C(32 to 122 °F)	
Storage Temperature	-10 to 60°C(14 to 140 °F)	
Humidity	80% max	
Altitude	2000 meters	
Pollution Degree	2	
Safety Compliance	CAT IV 1000V	
IP Rating	IP54	

Size(HxWxD): 166mm x 29mm x 28mm (AC-17), 173mm x 29mm x 28mm (AC-17F)
Weight: 75g (AC-17), 81g (AC-17F)
Accessories: 2 x1.5V “AAA” batteries and clamshell

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 1000V



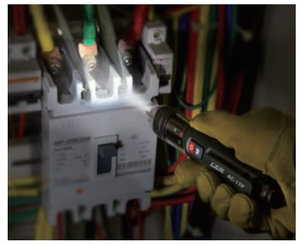
Model AC-17P Model AC-15P Model AC-19A Model AC-19H Model AC-19S Model AC-17B

AC-15P/17P/17B is an AC voltage and phase sequence tester, and the LED shows the measurement results.
AC-19A/19H/19S is new appearance design of Non-contact AC Voltage Testers.

Features:

- Industrial three-phase electric phase test
- Suitable for insulated wire socket test
- The built-in flashlight, sophisticated portable size
- The LED indicator light and buzzer
- Non-contact voltage detection,wide range of 12v to 1000v and High sensitivity detection voltage
- Small size and double injection molding shell design (AC-15P)
- Integrated environmental temperature detection (AC-17B)





Specifications

		AC-15P	AC-17P	AC-17B	AC-19A	AC-19H	AC-19S
ACV Non-Contact Detection		*	*	*	*	*	*
Operating Range (50Hz/60Hz)	12V to1000V	*	*	*		*	*
	100V to 1000V	*	*	*		*	*
	50V to 1000V				*		
IP67 Water proof & 2m drop-proof		*	IP54	-	*	*	*
Phase sequence detection		*	*	*			
Rugged, double molded case		*		*	*	*	*
Environmental temperature detection				*			
LCD Display				*			
Red/Yellow/Green LED indicators		*	*	*	Green/Red	*	*
Motor shaking							*
Flashlight function		*	*	*		*	*
Beeper sounds, System self test							
Switchable audible and silent mode, Auto Power Off							

Size(HxWxD): 166mm x 29mm x 28mm (AC-17P) **Weight:** 65g
Accessories: 2 x1.5V “AAA” batteries and clamshell

Non-Contact detection of AC Voltage

The Non-contact AC Voltage Testers are easy to use — just let the tip close to a terminal strip, outlet, or supply cord. When the tip glows red and the unit beeps, you know there's voltage present. Electricians, maintenance, service, safety personnel, and homeowners can quickly test for energized circuits in the workplace or at home.

Features:

- High power rear flashlight
- Thinner probe tip for working with wall outlets
- Green LED means power on, flashing red LED with beeper means voltage detected
- Low battery selftest & Auto power off
- Two modes, green means high voltage mode, yellow means low voltage mode
- Forward facing flashlight
- Flash and Beep rate increase as the detector gets closer to the voltage source helping the user pinpoint live circuits
- Power ON/OFF swith & Silent Mode
- Pocket clip for easy storage
- CAT IV 1000V, IP67 Water proof & 2m drop-proof
- ATEX certificate for AC-15Ex/AC-15Exs

- ***High power rear flashlight***
- ***Dual Voltage Sensitivity detector***

- ***CATIV 1000V***
- ***IP67 Water proof & 2m drop-proof***

EN 61010-1 CAT IV 1000V

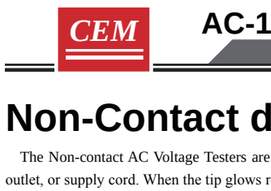
Model AC-15

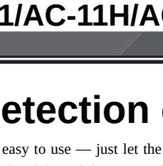


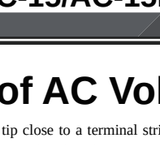


Model AC-15EX

TÜVRheinland ZERTIFIZIERT www.tuv.com









Model AC-11 Model AC-11H



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Specifications

		AC-11	AC-11B	AC-7H	AC-11H	AC-15/15H	AC-15S	AC-15Ex	AC-15 Exs
ACV Non-Contact Detection		*	*	*	*	*	*	*	*
Operating Range (50Hz/60Hz)	12V to1000V	*		*	*	*		*	
	24V to1000V		*						
	50V to1000V						*		*
	100V to 1000V	*	*	*	*	*		*	
	200V to 1000V						*		*
IP67 Water proof & 2m drop-proof		2m drop-proof		*	*	*	*	*	*
Motor shaking							*		*
Ex ib IIB T4 (ATEX)								*	*
Front Worklight					*	*	*	*	*
Rugged, double molded case		*	*	single molded	*	*	*	*	*
System self test		*	*	*	*	-/*		*	*
Rear Flashlight									
Dual Voltage Sensitivity detector									
Red/Yellow/Green LED indicators									
Auto Power Off									
Beeper sounds									
Switchable audible and silent mode									
CAT IV 1000V									
Size(HxWxD)		160 x 20 x 23mm		155x26x23mm		160mm x 23mm x 25mm			
Weight		60g		55g		55g			

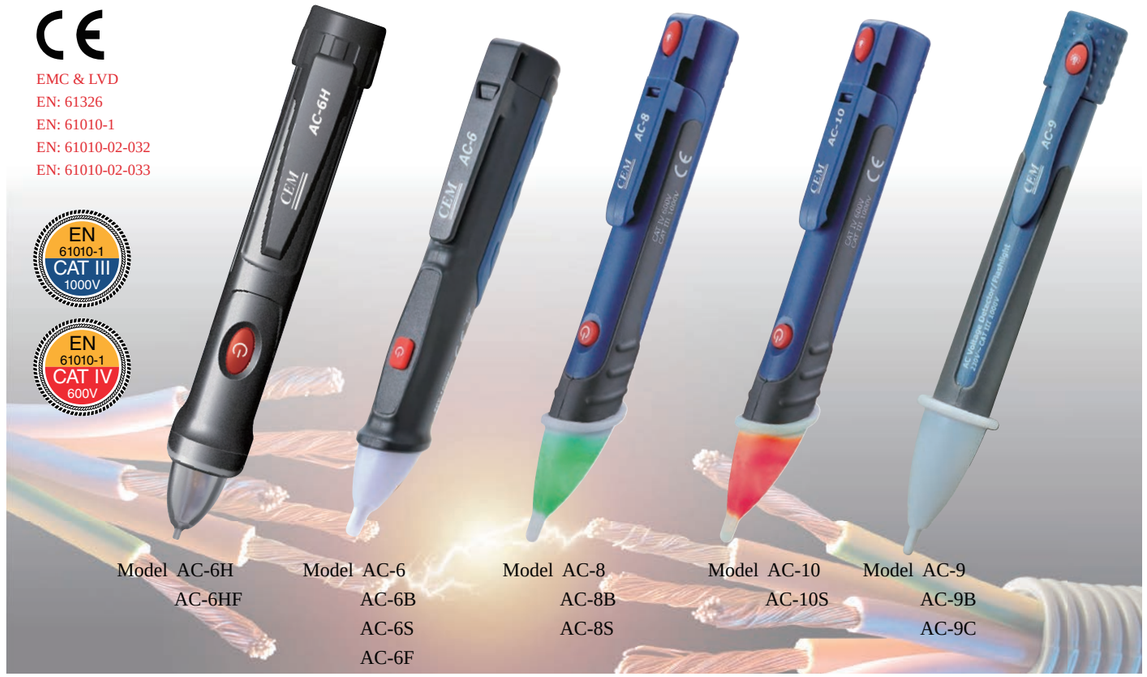
Accessories: 2 x1.5V "AAA" batteries and clamshell

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



Model AC-6H AC-6HF | Model AC-6 AC-6B AC-6S AC-6F | Model AC-8 AC-8B AC-8S | Model AC-10 AC-10S | Model AC-9 AC-9B AC-9C

Features:

- Easy-to-use
- Fit in shirt pocket for convenience
- All outer surfaces are non-conductive for safety
- Detects AC voltage without metallic contact

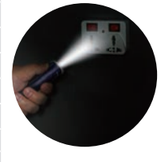


Features

		AC-6	AC-6B	AC-6S	AC-6H	AC-8	AC-8B	AC-8S	AC-9	AC-9B	AC-9C	AC-10	AC-10S
ACV Non-Contact Detection		*	*	*	*	*	*	*	*	*	*	*	*
Operating Range (50Hz/60Hz)	24V to1000V			*				*					
	50V to1000V	*			50V to 1000V	*							*
	100V to 1000V		*	*			*	*	*	*			
	200V to 1000V								*	*	*	*	
Voltage Sensitivity detector (Single)		*	*	Dual	*	*	*	Dual	*	*	*	*	*
Red LED indicators		*	*	*	*	*	*	*	*	*	*	*	*
Yellow LED indicators				*				*					
Green LED indicators		*	*	*	*	*	*	*				*	*
Beeper sounds		*	*	*	*		*	*		*		*	*
Motor Shaking											*		
Flashlight function		AC-6F			AC-6HF	*	*	*	*	*	*	*	*
Auto Power Off		*	*	*	*	*	*	*	*	*	*	*	*
Low battery self test		*	*	*	*	*	*	*				*	*
Power ON/OFF switch		*	*	*	*	*	*	*				*	*
Switchable audible and silent mode		*	*	*	*							*	*
Rugged, double molded case		*	*	*	single molded	*	*	*	*	*	*	*	*
CAT III 1000V		*	*	*	CAT IV 1000V	*	*	*	*	*	*	*	*
Size(HxWxD) mm		135 x 19 x 22			143 x 21 x 25	158 x 21 x 25			176 x 22 x 26			135 x 19 x 22	
Weight		45g			47g	48g			50g			55g	







Accessories: 2 x1.5V "AAA" batteries and clamshell

MO-60
Hard Hat Attachment



Model MO-60

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

The Personal Voltage and Current Detectors are smart life-savingdevices that detect energized sources and warn users, with both audible anavisual notifications, long before they are in danger of being electrocuted.Available in high voltage and low voltage models. Engineered to attacheasily to the underside brim of any standard hard hat, these wearablevoltage and current detectors are built with an intelligent design allowingthem to be configured to any work environment.

Features

Detect residual or induced voltage
Detect energized threats after accidents, disasters, and power outages.
High safety of non-contact measurement
System self-test
Low battery indication

Specifications

Detection Voltage Range	120VAC to 35kVAC 2.4kVAC to 35kVAC
Frequency Range	50/60Hz
Directional Accuracy (Point source)	Approximately ±20°
Operating Conditions	-20°C to 60°C (-4°F to 140°F) Humidity: 85% max
IP Rating	IP67
Battery	3.7V Rechargeable Lithium-Polymer Battery

Size(HxWxD): 90 x 30.5 x 10 mm
Weight: 15g
Accessories: 3.7V Li-ion batteries and clamshell



M-20 Wrist Type Non-Contact AC Voltage Alarm



Model M-20

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



The Wrist Type Non-Contact AC Voltage Alarm use non-contact induction technology to ensure the safety of close-electric workers. The alarms are widely used in electric power, railway, industrial and mining enterprises and other close-electric working places.

Voltage Level and Alarm Distance

Voltage Level	Alarm Distance
1kV	0.1m
10kV	0.8m
20/35kV	1.1m
66/100kV	1.8m
220kV	3.1m
330kV	4.2m
500kV	5.2m

Specifications

Detection method	Non-Contact detect
Alarm AC Voltage Range	1kVAC to 500kVAC
Frequency Range	50/60Hz
Detection Mode	Automatic trigger
Alarm Distance Error	±10cm (Measured under the standard non-interference field strength)
Operating Temperature	0 to 50°C (32 to 122°F)
Storage Temperature	-10 to 60°C (14 to 140°F)
Humidity	80% max
IP Rating	IP65

Size(HxWxD): 130 x 31x 61 mm
Weight: 37g
Accessories: One CR1632, gift box.

HV-10N/ HV-20N
Non-Contact High-Voltage Tester

The High-Voltage Non-Contact Voltage Tester is an instrument for verifying the live or de-energized status of conductors, cables, circuit breakers and other exposed electrical equipment. The tester warns against dangerous voltage in several different ranges without contacting the energized conductor. When the indicator LED is red and the tester beeps, you know there's voltage present. Only use with hot sticks and rubber gloves meeting industry standards.

Features

Wide range of AC Voltage detection
System self-test
High safety of non-contact measurement
Highlight LED to display the test result
Low battery indication

Specifications

	HV-10N	HV-20N
Operating Range (50/60Hz)	0V/1.5kV/132kV (Max 132kV)	240V/4.2kV/15kV/25kV/35kV/ 69kV/115kV/230kV (Max 230kV)
ACV Non-Contact Detection	*	*
Beeper Sounds	*	*
Highlight LED to Display	*	*
System self-test	*	*
Operating Temperature	0 to 50°C (32 to 122°F)	
Storage Temperature	-10 to 60°C (14 to 140°F)	
Humidity	80% max	

Size(HxWxD): 320mm x 82mm x 70mm (HV-10N), 255 x 110 x 105 mm (HV-20N)
Weight: 230g (HV-10N), 605g (HV-20N)
Accessories: One 9V battery (HV-10N) Three 1.5V "C" cell batteries (HV-20N)



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



Model HV-10N





Model HV-20N

Electrical Testers



9230 /9231/9232/9233 Series new two-pole voltage and continuity testers are now more rugged and easier to use than ever before.

- Fast test results the way you need them, with large, easy-to-use buttons, bright backlights, and clear audible and visible indicators designed for any work situation.
- Rugged, high-quality construction design includes a heavy duty molded case, a thicker cord with wear indicator, sturdy battery case, and well-fitting and durable probe protector.
- Enhanced ergonomic design feels good in your hand, is easy to use (even with gloves) and quick, secure probe docking.
- A complete family of testers with the features, functions, and price/performance to fit your applications and preferences.

AC-8M/AC-9M/AC-10M Magnet Space Testers

GENERAL APPLICATIONS

- High safety of Non-Contact AC Voltage measurement (AC-10M)
- Testing operating solenoid valves in pneumatic and hydraulic control equipment
- Testing relays with coils and electrically controlled solenoid valves in all types of vehicles and machineries
- Testing solenoid valves when servicing oil burners, the test lamp lights immediately and without metallic contact where there is a magnetic field, e.g. an activated coil in a solenoid valve. The test lamp responds to all kind of magnetic fields -from alternating current to direct current and to permanent magnets.

Specifications

	AC-8M	AC-9M	AC-10M
Non-Contact magnetic field detect	*	*	*
Non-Contact AC Voltage detect			*
AC Voltage Range			100-1000VAC (50/60Hz)
Flashlight Function	*	*	*
Highlight LED to Display	*	*	*
Operating Temperature	0 to 50°C (32 to 122°F)		
Storage Temperature	-10 to 60°C (14 to 140°F)		
Humidity	80% max		

Size(HxWxD): 158mm x 21mm x 25mm (AC-8M), 176 x 22 x 26mm(AC-9M)
Weight: 48g (AC-8M), 50g (AC-9M), 55g (AC-10M)
Accessories: 2 x1.5V “AAA” batteries and clamshell



Model AC-10M Model AC-8M Model AC-9M

DT-9230/9231/9232/9233
Electrical Testers

Features

	9230	9231	9232	9233
Complies with EN 61243-3:2014	*	*	*	*
LED Indication Range: 12 V to 690 V DC and AC	*			
LED Indication Range: 12 V to 1000 V DC and AC		*	*	*
Independent ELV indicator LED, indicates if >50 V AC/120 V DC is present even in the event of no battery power or main circuit failure	*	*	*	*
LCD Indication Range: 6 V to 1000 V DC and AC			*	*
Resistance Measurement: LCD 3½ digit (0 to 1999 Ω/1Ω resolution)				*
LCD BacklightDisplay HOLD: Freeze/unfreeze display with voltage or resistance measurement			*	*
Fixed Impedance ~350 kΩ (≤3.5 mA @ 1000 V)		*	*	*
Switchable Load by 2 pushbuttons (30 mA @ 230 V)		*		*
Vibration During Load (when 2 switchable load pushbuttons are pushed)		*		*
Single-Pole Phase Test (also operates with gloves)		*	*	*
Rotary Field Direction (also operates with gloves)		*	*	*
Continuity Test / Diode Test	*	*	*	*
Flashlight		*	*	*
Beeper for Continuity	*	*	*	*
Beeper for Phase/ACV		*	*	*
19 mm Probe Tip distance when docked	*	*	*	*
CAT III 1000 V / CAT IV 600 V	*	*	*	*
IP64	*	*	*	*

Specifications

		9230	9231	9232	9233
LEDs					
Voltage range	12 V to 690 V AC/DC	*			
	12 V to 1000 V AC/DC		*	*	*
Resolution	±12 V, 24 V, 36V, 50 V, 120 V,230 V, 400 V, 690 V	*			
	±12 V, 24 V, 50 V, 120 V,230 V, 400 V, 690 V, 1000 V		*	*	*
Frequency range	0 / 50 Hz to 60 Hz	*			
	0 / 40 Hz to 400 Hz		*	*	*
Response time	≤0.5 second	*	*	*	*
Auto power on	≥12 V AC/DC	*	*	*	*
LCD					
Voltage range	6V to 1000V ac/dc			*	*
Resolution	±1V			*	*
Tolerance	±(3 % rdg + 5 digits)			*	*
Frequency range	0 / 40 Hz to 400 Hz			*	*
Response time	≤1 second			*	*
Auto power on	≥6 V ac/dc			*	*
Voltage detection	Automatic	*	*	*	*
Polarity detection	Full range	*	*	*	*
Range detection	Automatic	*	*	*	*
Internal basic load impedance Peak current	Maximum 3.5 mA at 690 V 250 kΩ / Is <3.5 mA	*			
	Maximum 3.5 mA at 1000 V 350 kΩ / Is <3.5 mA (no RCD tripping)		*	*	*
Operation time	Duration Time =30 seconds	*	*	*	*
Recovery time	Recovery Time =240 seconds	*	*	*	*
Switchable Load	~7 kΩ		*		*
Peak current	Is (load) = 150 mA		*		*
RCD tripping	I=30 mA @ 230 V		*		*
Continuity Test	0 to 200 kΩ	*			
	0 to 400 kΩ		*	*	*
Accuracy	nominal resistance +50 %	*	*	*	*
Test current	≤5 µA	*	*	*	*
Single-pole Phase Test	100 V AC to 1000 V AC		*	*	*
Frequency range	40 Hz to 60 Hz		*	*	*
Rotary Field Indication			*	*	*
Voltage range (LEDs)	100 V to 1000 V (phase to earth)		*	*	*
Frequency range	50 Hz to 60 Hz		*	*	*
Resistance Measurement	0 Ω to 1999 Ω				*
Resolution	1 Ω				*
Tolerance	±(5 % rdg +10 digits) @ 20 °C				*
Temperature coefficient	±5 digits / 10 K				*
Test current	≤30 µA				*

Size(HxWxD): 240mm x 78mm x 30mm
Weight: 237g
Accessories:
2 x1.5V “AAA” batteries, gift box with carrying case



Model 9230 Model 9231

EN 61010-1 CAT IV 600V
EN 61010-1 CAT III 1000V
TÜVRheinland ZERTIFIZIERT
www.tuv.com



Model 9232 Model 9233

Electrical Testers



DT-9330/9331/9332
Electrical Testers

Features

	9330	9331	9332
Complies with EN 61243-3:2014	*	*	*
LED Indication Range: 12 V to 1000 V DC and AC	*	*	
Independent ELV indicator LED, indicates if >50 V AC/120 V DC is present even in the event of no battery power or main circuit failure	*	*	*
LCD Indication Range: 6 V to 1000 V dc and ac		*	*
Resistance Measurement: LCD 3½ digit (0 to 1999 Ω/1Ω resolution)		*	*
LCD Backlight Display HOLD: Freeze/unfreeze display with voltage or resistance measurement		*	*
Rugged, Double-Insulated Wire	*	*	*
Fixed Impedance ~300 kΩ (≤3.5 mA @ 1000 V)	*	*	*
Switchable Load by 2 pushbuttons (30 mA @ 230 V)	*	*	*
Single-Pole Phase Test (also operates with gloves)	*	*	*
Rotary Field Direction (also operates with gloves)	*	*	*
Continuity Test / Diode Test	*	*	*
Flashlight	*	*	*
Beeper for Continuity/Phase/ACV	*	*	*
19 mm Probe Tip distance when docked	*	*	*
CAT III 1000 V / CAT IV 600 V	*	*	*
IP64 rating	*	*	*

Specifications

		9330	9331	9332
LEDs				
Voltage range	12 V to 1000 V AC/DC	*	*	
Resolution	±12 V, 24 V, 50 V, 120 V,230 V, 400 V, 690 V, 1000 V	*	*	
Tolerance	Complies with EN 61243-3:2014	*	*	
Frequency range	0 / 40 Hz to 400 Hz	*	*	
Response time	≤0.5 second	*	*	
Auto power on	≥12 V AC/DC	*	*	
LCD				
Voltage range	6V to 1000V ac/dc		*	*
Resolution	±1V		*	*
Tolerance	±(3 % rdg + 5 digits)		*	*
Frequency range	0 / 40 Hz to 400 Hz		*	*
Response time	≤1 second		*	*
Auto power on	≥6 V AC/DC		*	*
Voltage detection	Automatic	*	*	*
Polarity detection	Full range	*	*	*
Range detection	Automatic	*	*	*
Internal basic load impedance Peak current	Maximum 3.5 mA at 1000 V 300 kΩ / Is <3.5 mA (no RCD tripping)	*	*	*
Operation time	Duration Time =30 seconds	*	*	*
Recovery time	Recovery Time =240 seconds	*	*	*
Switchable Load	~7 kΩ	*	*	*
Peak current	Is (load) = 150 mA	*	*	*
RCD tripping	I=30 mA @ 230 V	*	*	*
Continuity Test	0 to 400 kΩ	*	*	*
Accuracy	nominal resistance +50 %	*	*	*
Test current	≤5 µA	*	*	*
Single-pole Phase Test	100 V AC to 1000 V AC	*	*	*
Frequency range	40 Hz to 60 Hz	*	*	*
Rotary Field Indication		*	*	*
Voltage range (LEDs)	100 V to 1000 V (phase to earth)	*	*	*
Frequency range	50 Hz to 60 Hz	*	*	*
Resistance Measurement	0 Ω to 1999 Ω		*	*
Resolution	1 Ω		*	*
Tolerance	±(5 % rdg +10 digits) @ 20 °C		*	*
Temperature coefficient	±5 digits / 10 K		*	*
Test current	≤30 µA		*	*

Size(HxWxD): 240mm x 73mm x 34mm
Weight: 237g

Accessories:
2 x 1.5V “AAA” batteries, gift box with carrying case



Model 9330

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61243
EN: 61010-3

EN 61010-1 CAT III 1000V

EN 61010-1 CAT IV 600V



Model 9331



Model 9332

TÜVRheinland ZERTIFIZIERT
www.tuv.com

MPU690
Proving Unit



Model MPU690

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



The MPU690 Proving Unit safely generates high voltages to Ideal for proving low and high impedance voltage indicators, test lamps and two pole testers thus allowing verification of their correct operation. The unit will also test voltage testers that use a pygmy lamp.
Features include automatic power on when voltage tester probes are inserted into the output terminals, 50Hz test voltage to simulate AC mains supply.

Features

- Output Voltage: 50 – 690 volts in five steps
- CALCHECK Resistances: 0.5 Ω, 1 Ω, 0.5M Ω, 1M Ω
- Power Supply: 6 x AA / LR06 alkaline batteries
- Ideal for proving low and high impedance voltage indicators, test lamps and two pole testers
- Colour coded for voltage output
- Tough overmoulded low profile design
- Long battery life with low battery indicator and auto power off
- CALCHECK feature for verifying insulation and low resistance ranges of installation testers

Size(HxWxD): 132mm x 67mm x 43mm
Weight: 325g

DT-9902/9902N/9903/9903N Electrical Testers



Model 9902



Model 9903

Safety Conformance
Complies with EN 61010-1 for use in CATIII 600V environments

EN 61010-1 CAT III 600V

9902 & 9903 Electrical Testers provide voltage, continuity with one compact tool. They will be turned on automatically when you place the probe across a complete circuit. So you don't even have to turn them on or off.

Features	9902	9903
Automatically select VAC, VDC or Continuity test	*	*
1999 counts LCD display		*
Automatically power on and off	*	*
High input impedance	1MΩ	400kΩ
Non-contact voltage detection	9902N	9903N
Low battery indication		*



Specifications			
Function	9902	9903	Accuracy
Voltage AC	690V	600V	±(3.0%±3d)
Voltage DC	220V	600V	±(1.5%±2d)
Continuity Test	*	*	

Size(HxWxD): 9902/9902N : 135mm x 51.5mm x 38.5mm
9903/9903N : 215mm x 72mm x 36.7mm

Weight: 9902/9902N :182g 9903/9903N : 235g
Accessories: Test leads, 2 x 1.5V"AA" batteries and clamshell.

DT-9133 Lamp Tester

Lamp Tester tests HID and fluorescent lamps and has live conductor sensing. This electrical lamp tester has a compact, rugged housing with carrying case (included).

Specifications	
Live Conductor Indication	60-250VAC, 40-60Hz
Continuity Verification	0-5MΩ (test current: <7μA)
Lamp Tester Voltage	3kV/160kHz (test current:<200μA)
Measurement Category	CAT II 250V

Size(HxWxD):189mm x 26.5mm x 2.6mm
Weight: 60g





DT-9011/9011B/9020/9021/9030/9120/9121/9130
Electrical Testers

Features	9011/9011B	9020/9120	9021/9121	9030/9130
Clear LED indication	*	*	*	
1999 counts LCD display with analog bargraph				*
AC/DC Voltage detection	*	*	*	*
Polarity detection	*	*	*	*
Single-pole phase test			*	
Continuity test			*	*
Rotary field indication			*	*
Low impedance test	*	*	*	*
Flashlight		*	*	*
Voltage function operates without battery	*	*		
IP54	*	*	*	*
Overvoltage class CATIII 1000V/CATIV 600V		*	*	*
VAT self-test button		-/*	-/*	-/*

- *Double molded plastic housing*
- *CAT III 600V*

Model 9030

Bright Flashlight

EN 61010-1 CAT III 600V



CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61243
EN: 61010-3 (9030/9130)

- *Bright Flashlight*
- *VAT self-test button*



Model 9121



Model 9020

TÜVRheinland ZERTIFIZIERT
geprüfte Sicherheit
www.tuv.com
ID 1419048899



Model 9011



Specifications	9011/9011B	9020/9120	9021/9121	9030/9130
Voltage range (AC/DC)	6, 12, 24, 50, 120, 230, 400V	12,24,36,50,120,230, 400V	12,24,36,50,120,230, 400,690V (DC)	12,24,36,50,120, 230,400,690V (DC)
Tolerance	-30% to 0% of reading	-30% to 0% of reading	-30% to 0% of reading	±1.5%±3D
ACV Frequency range	0~60Hz	0~60Hz	0~60Hz	50/60Hz
Internal impedance	-	<200kΩ/-	<200kΩ/-	≤1MΩ/-

Size(HxWxD): 240mm x 78mm x 40mm
Weight: 237g
Accessories:
2 x1.5V "AAA" batteries (9021/9030/9121), gift box with carrying case

Electrical Testers



DT-9016/9017/9018/9019/DT-9019H/9019A
Electrical Testers

DT-9016/DT-9017/DT-9018/DT-9019/DT-9019A Electrical Testers provide voltage, continuity with one compact tool. They will be turned on automatically when you place the probe across a complete circuit.

- Fast test results, large & easy-to-use buttons, bright backlights, and clear audible and visible indicators designed for any work situation.
- Detachable test leads
- Features built-in test lead holders on the back of the meter

DT-9019H AFCI TEST is an electrical outlet tester that tests for wiring faults in electrical outlets, and also tests AFCI and GFCI Devices.

- Detects the most common wiring faults in standard, AFCI and GFCI electrical outlets
- Test AFCI devices by simulating arc fault conditions
- Test GFCI devices by simulating ground fault conditions
- Capable of detecting a dual-open wiring fault with simultaneous open neutral and open ground wires (patent pending technology)
- Tester delivers clear visual indication of the wiring condition at the electrical outlet

CE
EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V



Model 9019A



Model 9019



Model 9019H

Features

	9016	9017	9018	9019	9019H	9019A
Clear LED indication	*	*	*			
1999 Counts LCD display				*		Color LCD
Polarity detection	*	*	*	*		
Test Lead Holders	*	*	*	*		
NCV			*	*		
Low impedance	*	*	*			
Flashlight			*	*	*	
Continuity test			*	*		
Phase Rotation Test				*		
GFCI Test >5mA				*	*	*
AFCI Test					*	*
Replaceable test leads	*	*	*	*		
Auto Power Off			*	*	*	*
Overvoltage class CATIV 600V	*	*	*	*	CAIII 300V	CAIII 135V

Specifications

	9016	9017	9018	9019	9019H	9019A
Voltage range (AC/DC)	48, 120, 230, 400V	12, 24, 48, 120, 208, 240, 277, 480,6 00V	12, 24, 48, 120, 208, 240, 277, 480, 600V	6V to 600V	12V to 135V	30 to 150V
Tolerance	-30% to 0% of reading	-30% to 0% of reading	-30% to 0% of reading	±(3%+5)	±(3%+5)	2% + 2 digits
Frequency range	0/40Hz to 60Hz	0/40Hz to 400Hz	0/40Hz to 400Hz	0/40Hz to 400Hz	40Hz to 60Hz	45 to 64Hz
Continuity test			<200kΩ	<200kΩ		
Phase Rotation Test			*	*		
Voltage range			200 to 600V	200 to 600V		
Frequency range			50 Hz to 60 Hz	50 Hz to 60 Hz		
GFCI Test >5mA				*	*	*
AFCI Test					*	*
RCD 30mA					*	*
Battery			3 x 1.5V “AAA”	3 x 1.5V “AAA”	3 x 1.5V “AAA”	3 x 1.5V “AAA”

Size(HxWxD): 158mm x 56mm x 40mm
Weight: 237g
Accessories:
3x1.5V “AAA” batteries (9018/9019/9019H/9019A), gift box with carrying case



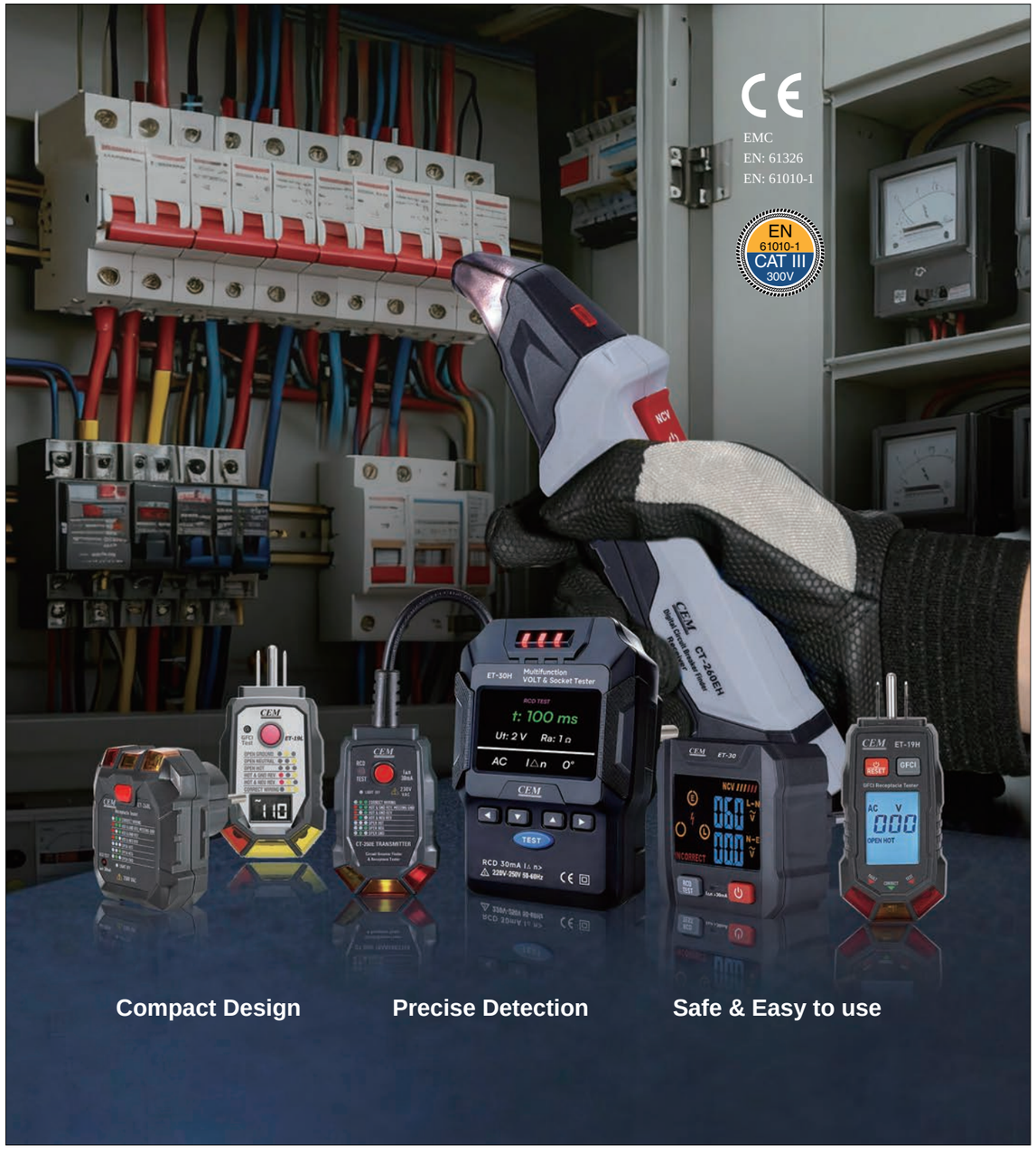
Model 9018



Model 9017

Multifunction VOLT & Socket Testers

Socket testers are compact, handheld diagnostic instruments designed to verify the wiring integrity of electrical outlets. These devices are essential tools for both residential and commercial electrical systems, widely employed to ensure compliance with safety standards. Advanced socket testers significantly streamline the verification process, delivering highly reliable and precise assessments of outlet conditions.



The multifunction device in pocket size. It allows the testing of electrical installations according to the IEC Standard like other traditional multifunction equipment. In addition to TRMS voltage measurement and checking correct plug wiring, it allows other tests to be carried out (RCD, LOOP L-PE/ L-N) according to IEC61557-3 and IEC61557-6 standards. The equipment allows you to memorize results and create reports through an application for mobile devices.

Key features

- Checking plugs (Correct wiring).
- L-N, N-E voltage measurement, TRMS.
- Differential test (type A, AC and F; 30mA) also with AUTO mode and contact voltage measurement.
- Measurement of loop impedance (Earth resistance) and contact voltage in TT systems.
- Measurement of loop impedance (Earth resistance) and short circuit current in TN systems.
- Voltage harmonics up to order 50.
- THD% measurement (Total Harmonic Distortion).
- Test AFCI devices by simulating arc fault conditions
- Test GFCI devices by simulating ground fault conditions
- CAT. III 300V.
- Instant online testing, no batteries required

CE
EMC
EN: 61326
EN: 61010-1

EN
61010-1
CAT III
300V



Model ET-30H

Specifications

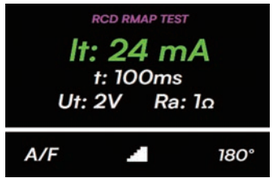
Function	Range	Resolution	Accuracy
AC Voltage	190~265V	1V	±(1.0% + 3 digits)
Frequency	42~69Hz	0.1Hz	±(1.0% + 3 digits)
RCD test	Current	<0.1 IΔn	+(0.0% +5%IAn)
	Time	0.1 ms	+(2ms + 2dgt)
Loop lmpedance	9.99Ω	0.01Ω	±(5.0% + 8 digits)
	99.9Ω	0.1Ω	±(5.0% + 8 digits)
	999Ω	1Ω	±(5.0% + 8 digits)
Harmonics	0.8 ~256V	0.1V	±(3.0% + 5 digits)
GFCI Test >5mA			

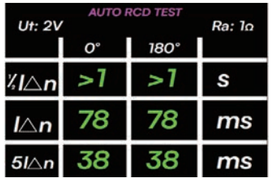
Size(HxWxD): 80mm x 60mm x 30mm **Weight:** 70g
Accessories: Gift box with carrying case.





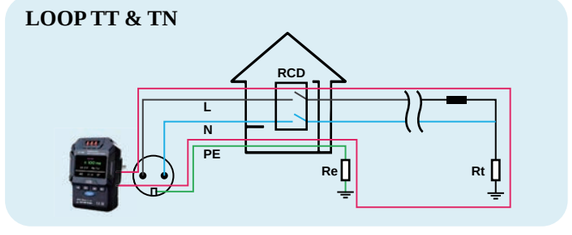
Report create press the TEST button to generate the QR CODE.Scan the QR CODE with your smartphone using the APP.
All saved measurements will be included in a report with the possibility of exporting in pdfor csv.

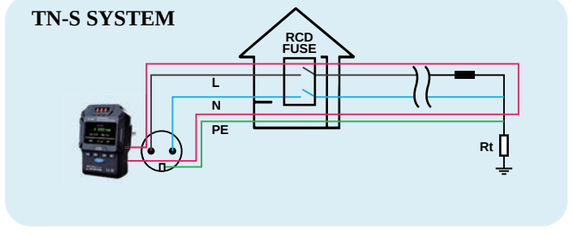












CT-260L/260LE
Digital Circuit Breaker Finder

EMC
EN: 61326
EN: 61010-1

CT-260L is a digital circuit breaker finder used to locate the correct circuit breaker in a panel to which an electrical outlet or fixture is connected. The transmitter is connected to the electrical outlet or fixture in the circuit while the receiver is used to scan the breakers in the circuit panel. The transmitter also features a RCD outlet tester.

Features

- Quickly and accurately locate the correct circuit breaker in a panel corresponding to the circuit to which an electrical outlet or fixture is connected
- Receiver delivers clear visual and audible indications when the correct breaker has been located
- Operates on 90-250V AC circuits (260L)
- Transmitter incorporates a RCD outlet tester to inspect the wiring condition at the electrical outlet and test RCD devices
- Transmitter docks in the Receiver for convenient storage as a single item when tester is not is use
- Transmitter incorporates a two-pin plug
- The transmitter may be connected to other electrical fixtures using optional accessories which are sold separately (CT-260L)
- Receiver powers off automatically after approximately three minutes of non-use to conserve battery life
- Transmitter is powered by the circuit when connected to the electrical outlet or fixture
- Detect and identify common wiring faults. Conditions are Wired Correctly, Open Ground, Open Neutral, Open Hot, Dual Open (Neutral & Ground), Reversed Hot/Ground, and Reversed Hot/Neutral. Reversed Hot/Ground Missing GND.
- Easily accessible battery compartment. Uses one 9V battery in receiver only; Transmitter does not require a battery
- Built to withstand a 6.6-Foot (2 m) drop
- CAT III 250V safety rating



Model CT-260B



Model CT-260LE



Model CT-260L

Specifications

		CT-260L	CT-260LE
Operating Voltage	50~250V/45~65Hz	*	*
Measure Voltage (with LCD)	90~250V/45~65Hz	*	
Accuracy	±(2%+3)	*	
Operating time	<3mins	*	*
Operating Temperature	0 to 40°C	*	*
Operating Humidity	20% to 75%RH	*	*
Storage Temperature	-10 to 60°C	*	*
Storage Humidity	20% to 80%RH	*	*
Altitude	<2000m	*	*
RCD Test	~30mA	*	*
RCD Working Voltage	220VAC ±20V	*	*

ET-260L Receptacle Tester



Model ET-260L

ET-260L Receptacle Tester detects the most common wiring problems in standard receptacles. Conditions indicated: wiring correct, open ground, reverse electrical outlet, open hot, open neutral, hot/ground reversed. Conditions not indicated: quality of ground, multiple hot wires, combinations of defects, reversal of grounded and grounding conductors.

RCD Working Voltage: 220±20VAC
RCD Test: ~30mA

EMC
EN: 61326
EN: 61010-1

● ● ●	CORRECT WIRING
● ● ●	HOT & GND REV, MISSING GND
● ● ●	HOT & GND REV
● ● ●	HOT & NEU REV
● ● ●	OPEN HOT
● ● ●	OPEN NEU
● ● ●	OPEN GND

ET-19H GFCI Receptacle Tester



Model ET-19H



- GFCI receptacle tester features large LCD readout. View results instantly without the need to look at a chart to understand results. In addition to a clear LCD readout, bright green and red LEDs illuminate to show correct or faulty wiring.
- Test trip time of GFCI in seconds. Find out if the trip breaker is functioning and how long it takes to trip.
- Detect and identify common wiring faults. Conditions are Wired Correctly, Open Ground, Open Neutral, Open Hot, Dual Open (Neutral & Ground), Reversed Hot/Ground, and Reversed Hot/Neutral.
- Auto-hold function is convenient for hard-to-reach outlets. Simply remove tester to view the reading.

Specifications

Operating Voltage	20~150V/45~65Hz
Measure Voltage (with LCD)	30~135V/45~65Hz
Accuracy	±(2%+3)
Auto Power Off	~5mins
Operating Temperature	0 to 40°C
Operating Humidity	20% to 75%RH
Storage Temperature	-10 to 60°C
Storage Humidity	20% to 80%RH
Altitude	<2000m
GFCI Test	~6mA
GFCI Working Voltage	102~132VAC

Size(HxWxD): 115mm x 50mm x 30mm **Weight:** 70g
Accessories: 9V battery, gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

CT-260/260E
Digital Circuit Breaker Finder with GFCI Outlet Tester

CT-260 is a digital circuit breaker finder used to locate the correct circuit breaker in a panel to which an electrical outlet or fixture is connected. The Transmitter is connected to the electrical outlet or fixture in the circuit while the receiver is used to scan the breakers in the circuit panel. The Transmitter also features a GFCI outlet tester.

Features

- Quickly and accurately locate the correct circuit breaker in a panel corresponding to the circuit to which an electrical outlet or fixture is connected
- Receiver delivers clear visual and audible indications when the correct breaker has been located
- Operates on 90-132V AC circuits (260)
- Operates on 90-250V AC circuits (260E)
- Transmitter incorporates a GFCI outlet tester to inspect the wiring condition at the electrical outlet and test GFCI devices
- Transmitter docks in the Receiver for convenient storage as a single item when tester is not is use
- Transmitter incorporates a three-pin plug
- The transmitter may be connected to other electrical fixtures using optional accessories which are sold separately (CT-260E)
- Receiver powers off automatically after approximately three minutes of non-use to conserve battery life
- Transmitter is powered by the circuit when connected to the electrical outlet or fixture
- Low battery indicator
- Easily accessible battery compartment. Uses one 9V battery in receiver only; Transmitter does not require a battery
- Built to withstand a 6.6-Foot (2 m) drop
- CAT II 300V safety rating

Size(HxWxD): 51mm x 189mm x 34mm (CT-260B)
53mm x 103mm x 33mm (CT-260A)
Weight: 120g (CT-260B), 30g (CT-260A)

EN 61010-1 CAT III 300V

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model CT-260E



Model CT-260A



Model CT-260B

ET-19L/19E GFCI & Receptacle Tester with Voltage Display



Model ET-19L Model ET-19E

ET-19L Receptacle Tester is designed to detect the most common wiring problems in standard and GFCI receptacles. Receptacle voltage reading LCD display . A convenient chart on the tester helps determine wiring condition in outlet, based on LED lights results. Conditions indicated: open ground, reverse polarity, open hot, open neutral, hot/ground reversed.

Voltage: 30~250V AC at 50/60Hz in 3-Wire Outlet

Size(HxWxD): 53mm x 103mm x 33mm (ET-19L)
40mm x 85mm x 32mm (ET-17/18)
Weight: 30g

ET-17 Standard Receptacle Tester



Model ET-17

ET-17 Receptacle Tester detects the most common wiring problems in standard receptacles. Conditions indicated: wiring correct, open ground, reverse electrical outlet, open hot, open neutral, hot/ground reversed. Conditions not indicated: quality of ground, multiple hot wires, combinations of defects, reversal of grounded and grounding conductors.

Voltage: 90~240V AC at 50/60Hz in 3-Wire Outlet

ET-18 GFCI and Standard Receptacle Tester



Model ET-18

ET-18 Receptacle Tester is designed to detect the most common wiring problems in standard and GFCI receptacles. A convenient chart on the tester helps determine wiring condition in outlet, based on LED lights results. Conditions indicated: open ground, reverse polarity, open hot, open neutral, hot/ground reversed.

Voltage: 90~240V AC at 50/60Hz in 3-Wire Outlet

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

ET-30
Socket Tester



Model ET-30

EMC
EN: 61326
EN: 61010-1

EN 61010-1 CAT III 300V



Socket tester is mainly used to detect polarity of power socket and safety of leakage switch. It can quickly and accurately detect the wiring of the socket, simultaneously, it can test socket voltage and show on the LCD screen.

Specifications

Measure Voltage	25 to 250V/45 to 65Hz
Accuracy	±(2%+3)
Auto Power Off	~5mins
Operating Temperature	0 to 40°C/32 to 104°F
Operating Humidity	20% to 75%RH
Storage Temperature	-10 to 50°C/14 to 122°F
Storage Humidity	20% to 80%RH
Altitude	<2000m
RCD Current	>30mA
RCD Work Voltage	220V±20V

Size(HxWxD): 67mm x 67mm x 65mm
Weight: 135g
Accessories: 2x1.5V AAA battery, gift box with carrying case.

CT-230 Circuit Breaker Finder



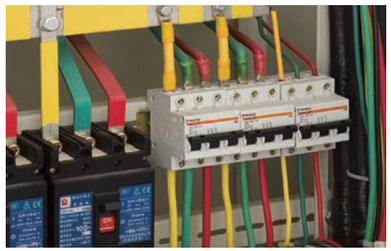
Model CT-230A
Receiver



Model CT-230B
Transmitter

Features

- Analog Circuit Breaker Finder
- Voltage Range 120/240V
- For Use On Energized Lines
- LED Display
- Visual/Audible indicaton
- Function identifies Specific Circuit Breakers or Fuses With A Flashing LED Light and audible tone
- Plug-in transmitter allows one person test
- Identify And Troubleshoot Energized Outlets Or in candescent light fixture
- Includes Transmitter, Receiver, Battery, and Instructions.



CT-240 Digital Circuit Breaker Finder

Features

- Digital Circuit Breaker Finder
- Voltage Range 120/240V
- For Use on Energized Lines
- LED Display
- Visual/Audible indicaton
- Function identifies Specific Circuit Breakers or Fuses With A Flashing LED Light and audible tone
- Identify and Troubleshoot Energized Outlets or in candescent light fixture
- Includes Transmitter, Receiver, Battery, and Instructions.

Size(HxWxD): 192mm x 64mm x 42mm
Weight: 120g
Accessories: 9V batteries and clamshell

EMC
EN: 61326



Model CT-240B
Transmitter



Model CT-240A
Receiver

DT-9350
Multi-Function Signal Generator

DOUBLE MOLDED Plastic housing
SAFETY Double Molded Test Leads
Backlight Backlight

Features

- Multiple signal outputs: voltage, current, resistance, mV TC, RTD, HZ
- 0.01% Accuracy
- Temperature compensation
- 64 sets of datastores
- Lookup table function
- For accuracy, a calibration interval of 1 year is recommended
- The recommended power-on warm-up time is 15 minutes

- *0.01% Accuracy*
- *Multiple signal outputs*
- *Bluetooth interface*
- *64 sets of datastores*



Model 9350

Specifications

Function	Range	Set the range	Resolution	Basic Accuracy
DC Voltage Signal Output	100mV	-10.00 to ±110.00mV	10μV	±(% 0.01 + 10μV)
	1V	0 to ±1.2000A	0.1mV	±(% 0.01 + 0.1mV)
	10V	0 to ±12.000A	1mV	±(% 0.01 + 2mV)
DC Current Signal Output	20mA	0 to 24.000mA	1μV	±(% 0.01 + 2μA)
	20mA	0 to 24.000mA	1μV	±(% 0.01 + 2μA)
Resistor Signal Output	400Ω	0 to 400.00Ω	0.01Ω	±(% 0.015 + 0.1Ω)
	4kΩ	0 to 4000.0Ω	0.1Ω	±(% 0.015 + 0.3Ω)
Pulse Signal Output	100Hz	2 to 100Hz	0.01Hz	±0.1Hz
	1kHz	100 to 1000Hz	0.5Hz	±1Hz
	10kHz	1 to 10kHz	10Hz	±10Hz
Thermocouple Signal Output	K	-200 to 1370°C	0.1°C	±0.7°C
	E	-200 to 1000°C	0.1°C	±0.5°C
	J	-200 to 1200°C	0.1°C	±0.6°C
	T	-200 to 400°C	0.1°C	±0.4°C
	R	-40 to 1760°C	1°C	±1.5°C
	B	400 to 1800°C	1°C	±1.5°C
	S	-20 to 1760°C	1°C	±1.5°C
	N	-200 to 1300°C	0.1°C	±0.6°C
RTD Signal Output	Pt100	-200 to 850°C	0.1°C	±0.5°C
	Pt1000	-200 to 850°C	0.1°C	±0.4°C
	Cu50	-50 to 150°C	0.1°C	±0.5°C

EMC
EN: 61326



Size(HxWxD): 220mm x 96mm x 60mm **Weight:** 631g
Accessories: Test leads, Li-ion batteries, Software, gift box with carrying case.

DT-9058 Loop Tester



EMC
EN: 61326



Model 9058

Specifications

- Instant online testing, no batteries required
- Line aging program detection
- Multi-segment light display to indicate the degree of aging of the line
- Segments 1~2 are displayed in red, indicating that the socket line condition test result is an aging warning
- Segments 3~5 are displayed in yellow, indicating that the test result of the socket line condition is recommended inspection
- Segments 6~8 are displayed in green, indicating that the test result of the line condition of the socket is as recommended

Size(HxWxD): 158mm x 56mm x 40mm **Weight:** 237g
Accessories: 3x1.5V "AAA" batteries, gift box.

USB-10/20 USB DC Voltage/ Current Tester



Model USB-10

EMC
EN: 61326



Model USB-20

Features

- High/Low output voltage warning
- LCD display with backlight (USB-20)
- LED display (USB-10)
- Lightweight, portable, easy to use



Specifications

Input Voltage Range (V)	3V-9V
Voltage Resolution	0.01V
Voltage Monitoring Accuracy	±1%
Current Monitoring Range (A)	0A~3A
Current Monitoring Accuracy	±(1%±2)
Current Resolution	0.01A

Size(HxWxD): 23mm x 65mm x 13mm **Weight:** 17g

4 in 1 Stud/Metal/AC Voltage Finder with Multimeter Function



LA-2028 uses electronic signals to locate the edges of studs, joists or live AC wires through dry-wall or other common building materials. Multi color display and sounds an audible tone. DMM function make it easy to the capability to tackle any electrical task.

- *True RMS*
- *Double molded plastic housing*

Features

Metal detection
Stud detection
Non-contact ACV detection
4000 counts digital display with backlit
Analogue Bar Graph (41)
True RMS measurement
Auto range selection, MAX/MIN hold
0.5~99.9% duty cycle measurement
Diode & continuity buzz check
Display backlight, auto power off
Data hold measurement
Full ranges protection
Square wave signal output
Low input impedance (around 3kΩ)

Specifications

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	10A	±1.0%
Current AC	10A	±1.0%
Resistance	40MΩ	±1.2%
Capacitance	100mF	±3.5%
Frequency	10KHz	±1.2%
Temperature	1000ºC/1832ºF	±1.5%
VFD Function	600V	
Square wave signal output	50-10KHz	
Diode Check		
Continuity Test		

Specifications (Stud/ Metal Finder)

Stud scanning range	0-1½ inch (38mm) through drywall
Metal scanning range	0-3inch (76mm) magnetic metal
	0-1½ inch (38mm) non-magnetic metal
Live AC wire (without shielding)	0-2inch (50mm)
Result indication	Multi-color LED display and buzzer

Size(HxWxD): 165mm x 70mm x 45mm **Weight:** 326g

Accessories: Test leads, 9V battery and type K temperature probe, gift box.

EN 61010-1 CAT III 600V

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Model LA-2028







LA-1011

2 in 1 LAN Tester & Multimeter



Model 1011

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033





The tester is a designed and very practical tester that can easily read the correct pin configuration of 10 Base -T cable(Category 5), 10 Base-2 cable (coax), RJ45/RJ11 moduler cables, 356A, TIA-568A/568B and Token Ring cable by comparing one transmitting end to the corresponding receiving end. With the remote kit it can test cables installed far away either on wall plate or patch panel. It is easy to verify the cable continuity, open, short and cross-connect. It is affordable, so you can benefit the most.

- Test the correct pin configuration of 10 Base-T 10 Base-2 Thin Ethernet cable, RJ45/RJ11 modular cables 356A, TIA-568A/568B and Token Ring cable etc.
- With remote kit it can remotely test cables up to 300 m away either on the wall plate or patch panel.
- Test the ground wire
- Measures DC/AC Voltage, DC/AC Current, Resistance, Continuity & diode

Specifications		
Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

Size(HxWxD): 162mm x 74.5mm x 44mm **Weight:** 308g
Accessories: 9V battery and Two “AAA” batteries, remote terminator, holster, cables, test leads, gift box with carrying case.

LA-1014 2 in 1 LAN Tester & Multimeter



Model 1014

EMC
EN: 61326



Complete with Amplifier probe and Tone Generator with alligator clips and modular RJ11 phone and RJ45 digital connector cables,
9V battery and case
Tone Generator and Amplifier Probe Kit
Heavy duty kit with audible tone easily identifies wires or cables

Features
Insulated inductive probe tip prevents shorting conductors
Tests include wire trace, continuity test, clear/busy/ringing
line test and tip/ring identification
Alligator clips for non-terminated cables and modular connectors for direct connections to telephone and internet wiring
Selectable continuous or variable tone generation
Built-in speaker on probe with sensitivity control

Specifications		
Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

Size(HxWxD): 162mm x 74.5mm x 44mm
Weight: 308g
Accessories:
Test leads, 9V batteries and gift box.

LA-1013 Amplifier Probe



Model 1013

EMC
EN: 61326

Features
Insulated inductive probe tip prevents shorting conductors
Tests include wire trace, continuity test, clear/busy/ringing line test and tip/ring identification
Alligator clips for non-terminated cables and modular connectors for direct connections to telephone and internet wiring
Selectable continuous or variable tone generation
Built-in speaker on probe with sensitivity control

Size(HxWxD): 231mm x 56mm x 27mm
Weight: 270g
Accessories:
9V battery and clamshell

LA-1015

2 in 1 Cable Indentifier & DMM

LA-1015 is a transmitter/receiver device which enbles one to instantly match up ends of individual cores at either end of a multi-core cable.With the remote kit it can test cables installed far away either on wall plate or patch panel. DMM function make it easy to measure DC/AC voltage, DC/AC current, Resistance, continuity & diode.

Specifications		
Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	
Transmitter		
Display	Two blue LED lamps	
Alligators	17 Croc Clips - Red x 16, Black x 1	
Cable resistance	10K Ohm max	
Receiver		
Display	Two digit Red LED Display	
Alligators	2 Croc Clips - Red x 1, Black x 1	

EMC & LVD
EN: 50081-1, 50082-1
EN: 61010-1, EN: 61010-02-032
EN: 61010-02-033



Model 1015

Size(HxWxD): 162mm x 74.5mm x 44mm **Weight:** 308g
Accessories: 9V battery and Two “AAA” batteries, remote terminator, holster, cables, test leads, gift box with carrying case.

LA-1016 2 in 1 Satellite Finder & DMM

LA-1016 is a satellite finder with scale display and digital multimeter (DMM). It is very good design. Connect a coaxial cable from the LNB/LNBF to the “TOLNB” connection on Satellite Finder. Connect the cable from your satallite receiver to the “TOREC” input on the Satellite Finder.DMM function make it easy to measure DC/AC voltage, DC/AC current, Resistance, continuity & diode.

Specifications		
Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

Size(HxWxD): 162mm x 74.5mm x 44mm **Weight:** 308g
Accessories: 9V battery & Two “AAA” batteries, remote terminator and gift box with carrying case.

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Model 1016



LA-1017 Solar Power Meter & DMM

Features
Sunlight measurement up to 1999w/m^2 or 634BTU/(ft^2*h)
High accuracy and rapid response
Data HOLD funtction to hold measurement values
Unit and sign display for easy reading
Measuring unit selection among w/m^2 and BTU/(ft^2*h)
Manual scale selection
Direct reading with no adjustments needed
Maximum and minimum values, Low battery indication

Specifications		
Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	
Solar Power Meter		
Display	3-1/2 digits LCD with maxmum reading 1999.	
Range	1999W/m^2,634BTU/(ft^2*h)	
Resolution	1W/m^2;1BTU/(ft^2*h).	
Accuracy	Typically within ±10W/m^2 [±3BTU/(ft^2*h)]or ±5%	
Sampling time	Approx 0.25 second.	



Model 1017

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Size(HxWxD): 162mm x 74.5mm x 44mm **Weight:** 308g
Accessories: 9V battery & Two “AAA” batteries, remote terminator and gift box with carrying case.

Renewable Energy Tools

The growth of the solar energy industry requires new solar testing equipment solutions for electricians, PV installers, and technicians. From solar clamp meters, solar irradiance meters and photovoltaic testers for residential needs, to commissioning a new PV array or routine maintenance on a solar farm or photovoltaic power station, Renewable Energy Tools testing equipment has you covered.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1500V

EN 61010-1 CAT IV 600V



www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com



Renewable Energy Tools



CAT III 1500V Solar PV Multimeter — P325

965PV/966PV Solar PV Multimeters are new compact meters with double molded plastic housing; Patented design with dial, knob button backlight and over sized high contrast 60,000/6000 counts LCD/Color LCD display. They are CATIII 1000V/CATIV 600V CAT IV1000V/CATIII 1500V.



CAT III 1500V Solar PV Clamp Meters with 120x120 InfraRed Thermal Imager — P327

The 9582PV/ 9583PV CAT III 1500 V/CAT IV 600 V True-RMS Clamp Meter for technicians who work in DC environments up to and data center battery banks for uninterruptible 1500 V: solar arrays, wind power, electric railways,power supplies. The Clamp meets the IEC 61730-1 standard for overvoltage category III photo- voltaic panels and extends the safe measurement range up to 1500 V DC.



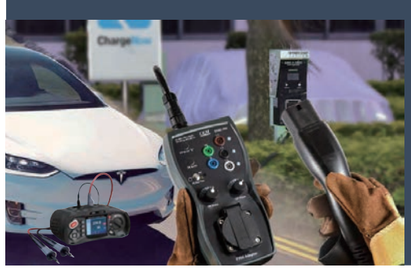
Solar Irradiance Meter — P315

The 1317 Solar Irradiance Meter has been designed from the ground up to simplify the installation, commissioning, and troubleshooting of photovoltaic arrays, temperature, inclination and direction of the solar array in a single handheld tool. With a rugged, compact design and an easy-to-read, high-contrast LCD screen to read measurements in direct sunlight.



Multifunction PV Tester and Performance Analyzer, I-V Curve Tracer — P317

Test that PV systems are performing to their optimal power output as well as operating safely with the DT-1000 multifunction tester with I-V curve tracing. Designed for PV professionals that provide installation, commissioning and maintenance services to systems that operate at 1000 V DC or under, the DT-1000 provides a complete PV testing solution that conforms to IEC 62446-1 standards. Through Software, measurement data from solar site installation and commissioning testing can be easily imported, organized and analyzed for effortless reporting without having to bring a laptop on-site.



EVSE Test Adapter Kit for Electric Vehicle Charging Station — P525

The EVSE-200 is an extender for interfacing Electric Vehicle Supply Equipment (EVSE) to test socket of installation tester for verification of electrical safety and functional testing. It is intended for testing Mode 3 EV supply equipment with type 2 connector.
The ESVE-200 adapter allows you to conduct tests in combination with appropriate test instruments like an installation tester (for example DT-6650 Series).

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

Solar Irradiance Meter



Model 1317BT

DT-1317/1317BT
Solar Irradiance Meter

The 1317/1317BT Solar Irradiance Meter has been designed from the ground up to simplify the installation, commissioning, and troubleshooting of photovoltaic arrays, temperature, inclination and direction of the solar array in a single handheld tool. With a rugged, compact design and an easy-to-read, high-contrast LCD screen to read measurements in direct sunlight.
The 1317BT is equipped with a Bluetooth 4.0 module, which can be controlled and data read through a mobile app, making it very convenient.

Features

	1317	1317BT
Sunlight measurement up to 1400w/m²	*	*
Measurable tilt measurement range from -90°to 90°	*	*
Compass function	*	*
Portable temperature measurement	*	*
The tilt angle can be manually adjusted to zero	*	*
High accuracy and rapid response	*	*
Data hold function to hold measurement values	*	*
Unit and sign display for easy reading	*	*
Measuring unit selection among °F and °C	*	*
Direct reading with no adjustments needed	*	*
Low battery indication	*	*
Built in Bluetooth 4.0 module		*

Specifications

Function	Range	Resolution	Accuracy
Sunlight	50-1400w/m²	1w/m²	±5%
Temperature	-30°C to 100°C (-22°F to 212°F)	0.1°C (0.2°F)	±1°C (±2°F)
	Temperature measurement response time 30s		
Inclination	-90° to 90°	0.1°	±1.5°~±3.5°
Compass	0° to 360°	1°	±7°

Size(HxWxD): 172mm x 72mm x 36mm **Weight:** 286g
Accessories: gift box with carrying case, 4 x 1.5V "AA" batteries.

CE
EMC
EN: 61326



Model 1317/1317BT





DT-1337 Solar Photovoltaic Panel Tester

DT-1337 is mainly used to measure the maximum power generation of photovoltaic panels. Under the same solar intensity, the higher the maximum power generation, the better the quality of photovoltaic panels. The color LCD display can read the data more clearly and intuitively under the light and reflect the curve characteristics of the data.

Features

The maximum generating power can reach 800W
Adjustable manual measurement mode and automatic measurement mode
Multiple protection circuit
High-precision measuring chip
With graphical data analysis

Specifications

Function	Range	Accuracy
Maximum power value (Pmax)	0 to 800W	±0.5%
Voltage at MPPT point (Vmax)	0 to 60V	±0.1%
Current at MPPT point (Imax)	0 to 35A	±0.1%
Open circuit voltage (Vopen)	0 to 60V	±0.1%
Short circuit current (Ishort)	0 to 35A	±0.1%
Instrument internal temperature	0 to 60ºC	±3%

Size(HxWxD): 122mm x 72mm x 36mm
Weight: 206g
Accessories: 3.7V Li-battery, gift box with carrying case.

CE
EMC
EN: 61326

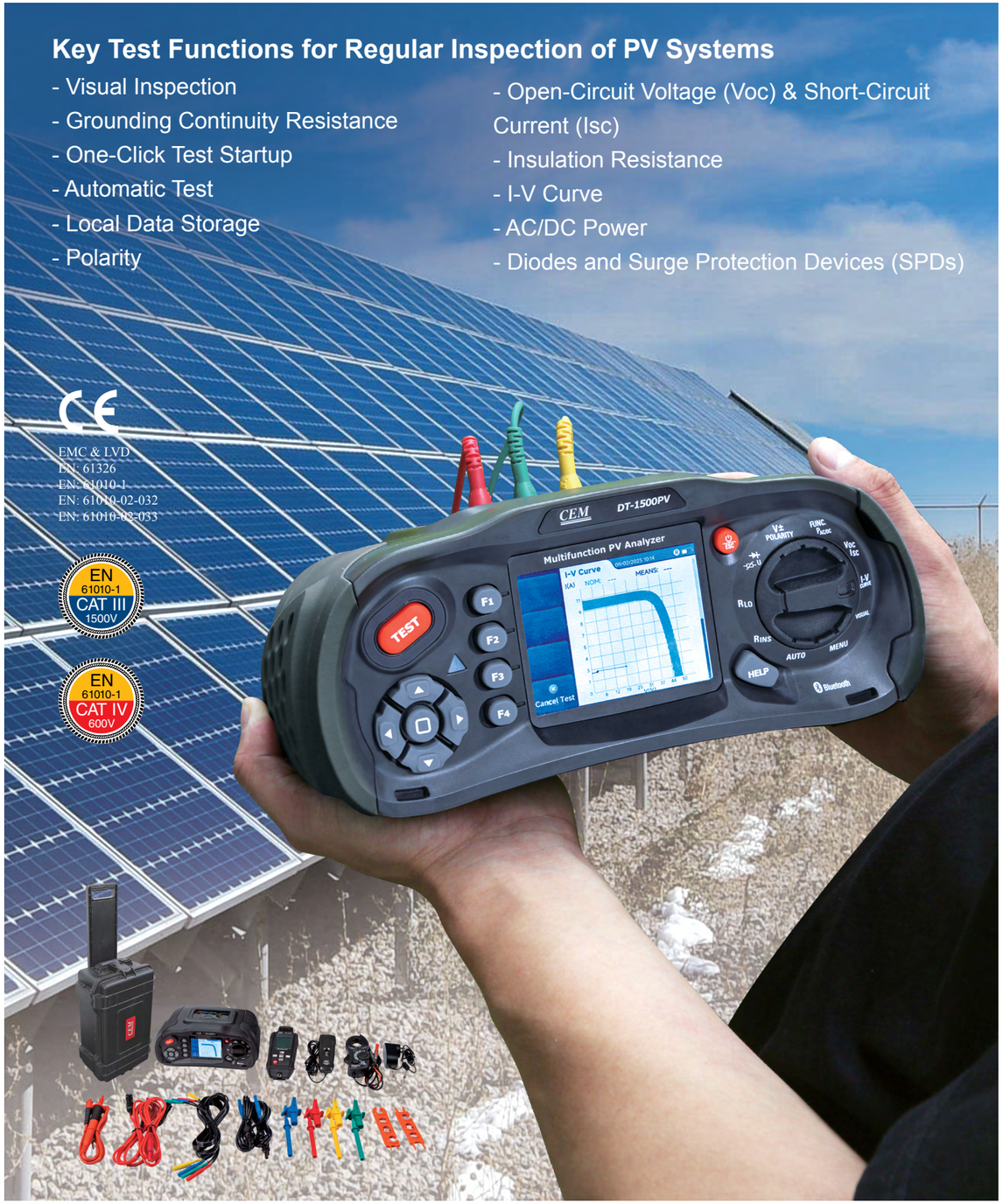






Model 1337

45kW Multifunction PV Tester and Performance Analyzer, I-V Curve Tracer up to 1500V and 30A



Test the PV systems are performing to their optimal power output as well as operating safely with the DT-1500PV multifunction tester with I-V curve tracing. Designed for PV professionals that provide installation, commissioning and maintenance services to systems that operate at 1500 V DC or under, the DT-1500PV provides a complete PV testing solution that conforms to IEC 62446-1 standards. Through Software, measurement data from solar site installation and commissioning testing can be easily imported, organized and analyzed for effortless reporting without having to bring a laptop on-site.

Features

- All-in-one PV system test solution meeting IEC 62446-1 standards for Category 1 and Category 2 tests
- Open-circuit voltage (VOC) measurement at the PV module/string up to 1500V DC
- Short-circuit (ISC) current measurement at the PV module/string up to 30 A DC
- On-location I-V curve results compares manufacturer I-V curve data to measured data on the analyzer screen
- The instrument has a built-in 32G TF storage card
- Bluetooth interface

Specifications

PV module/PV string, open-circuit voltage (Voc)			
0.0 V - 99.9 V	5.0 V - 99.9 V	0.1 V	± (0.5 % + 2 Digit)
100 V - 1500 V	100 V - 1500 V	1 V	± (0.5 % + 2 Digit)
Polarity test	Yes		
PV module/PV string, short-circuit current (Is/c)			
0.0 A - 30.0 A	0.2 A - 30.0 A	0.1 A	± (1 % + 2 Digit)
Protective conductor resistance RLO			
Display range	Measuring range	Resolution	Accuracy
0.00 Ω - 19.99 Ω	0.20 Ω - 19.99 Ω	0.01 Ω	± (2 % + 2 Digit)
20.0 Ω- 199.9 Ω	20.0 Ω - 199.9 Ω	0.1 Ω	± (2 % + 2 Digit)
200 Ω - 2000 Ω	200 Ω - 2000 Ω	1 Ω	± (5 % + 2 Digit)
Test current: ≥ 200 mA (≤ 2Ω + Rcomp), Test voltage: 4 V DC … 10 V DC, Polarity reversing			
Test lead zero (Rcomp)	Up to 3 Ω		
Insulation resistance RINS			
0.00 MΩ - 99.99 MΩ	0.20 MΩ - 99.99 MΩ	0.01 MΩ	± (5 % + 5 Digit)
100.0 MΩ - 199.9 MΩ	100.0 MΩ - 199.9 MΩ	0.1 MΩ	± (10 % + 5 Digit)
200 MΩ - 999 MΩ	200 MΩ - 999 MΩ	1 MΩ	± (15 % + 5 Digit)
Test voltage @ no load	50 V / 100 V / 250 V up to 199.9 MΩ 500 V / 1000 V up to 999 MΩ	1 V	0 % to + 20 %
Test voltage @ ≥ 1 mA	250 V @ 250 kΩ, 500 V @ 500 kΩ 1000 V @ 1 MΩ	1 V	0 % to + 10 %
Testing current	Min. 1 mA (@ 250 kΩ / 500 kΩ / 1MΩ), Max. 1.5 mA (short circuit)		
AC/DC voltage measurement via 4 mm test sockets			
0.0 V AC - 99.9 V AC	5.0 V AC - 99.9 V AC	0.1 V	± (2.5 % + 2 Digit)
100 V AC - 1000 V AC	100 V AC - 1000 V AC	1 V	± (2.5 % + 2 Digit)
0.0 V DC - 99.9 V DC	5.0 V DC - 99.9 V DC	0.1 V	± (2.5 % + 2 Digit)
100 V DC - 1500 V DC	100 V DC - 1500 V DC	1 V	± (2.5 % + 2 Digit)
AC/DC current with clamp			
0.0 A DC – 40 A DC	1.0 A DC – 40 A DC	0.1 A	± (5 % + 2 Digit)
0.0 A AC – 400 A DC/AC	1.0 A AC – 400 A DC/AC		± (5 % + 2 Digit)
Clamp Tolerances (Modle CP-03B)			
N/A	1 A - 400 A DC or AC < 1 kHz	1A/mV DC/AC	± (2.5 % + 0.03 A) (DC, AC 50 /60Hz)
AC/DC Power measurement (with clamp)			
0.0 V AC - 1000 V AC	5.0 V AC - 1000 V AC	0.1 V	± (2 % + 5 Digit)
0.0 V DC - 1500 V DC	5.0 V DC - 1500 V DC		
0 A AC/DC - 400 A AC/DC	1.0 A AC/DC- 400 A AC/DC	0.1 A	± (3% + 8 Digit)
0 kW/kVA – 600 kW/kVA	5 kW/kVA – 600 kW/kVA	1 kW/kVA	± (7.5%VI+0.6V+ 0.2I)
Blocking diode checking (vbd)			
0.00 V DC - 6.00 V DC	0.50 V DC - 6.00 V DC	0.01 V DC	±(5 % + 10 Digit)
Surge protection device (SPD)			
0V DC-1000 V DC	50V DC-1000V DC	1V DC	±(10 %+ 5 Digit)
Environmental measurements (remote unit: 1317BT)			
Irradiation 50 to 1400 W/m^2		1 W/m^2	± (5 % + 2 Digit)
Ambient temperature -30°C to 100°C		0.1°C	±1.0°C (±2°F)

Size(HxWxD): 220mm x 96.5mm x 60.5mm
Weight: 631g
Accessories: Test leads, 7.4V Li-ion battery, USB cable and Software, gift box with carrying case, adaptor.



Model 1500PV



Retain wire functionality and enable rapid automatic testing



I-V Curve

Photovoltaic and Electrical Installation Analyzer

Key Functions

- Calculation of STC values
- Graphical representation
- Power and efficiency measurements
- PV Remote Unit
- I-V Curve
- RCD Auto
- Trip Lock function
- Built-in fuse tables
- Memory
- Bluetooth connectivity

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1500V

EN 61010-1 CAT IV 600V



Model 1317BT

Measuring functions:

Photovoltaic installations:

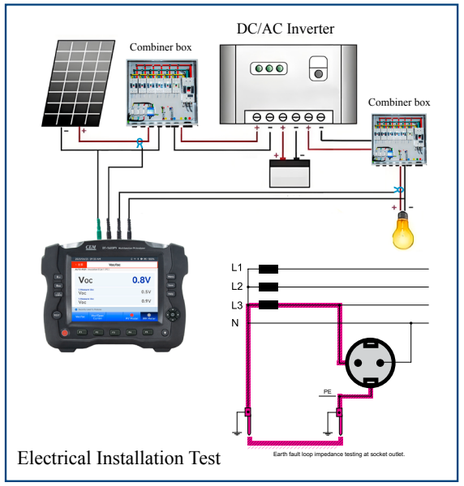
Measurements on DC side of PV installation:
- Voltage, current, power;
- Voc (Open Circuit Voltage) and Isc (Short Circuit Current);
- I - V curve of PV modules and strings;
- Irradiance;
- Module temperature.

Measurements on AC side of PV installation:
- Voltage, current, power;
- Efficiency of PV module, inverter, PV system calculation.

Electrical installations:
- Insulation resistance;
- Continuity of PE conductors;
- Line impedance;
- Loop impedance (sub-functions with high current and without RCD tripping);
- RCD testing (type AC, A and B);
- Earth resistance;
- AC current (load and leakage);
- TRMS voltage, frequency, phase sequence;
- Power, energy, harmonics.



Model 1600PV



Electrical Installation Test

Specifications

Measuring range		Resolution	Best accuracy
PV module/PV string, open-circuit voltage (Voc)			
5.0 V - 99.9 V , 100 V - 1500 V		0.1 V, 1 V	± (0.5 % + 2 Digit)
Polarity test	Yes		
PV module/PV string, short-circuit current (Is/c)			
0.2 A - 30.0 A		0.1 A	± (1 % + 2 Digit)
Protective conductor resistance RLO			
0.20 Ω - 19.99 Ω, 20.0 Ω - 199.9 Ω, 200 Ω - 2000 Ω		0.01 Ω, 0.1 Ω, 1 Ω	± (2 % + 2 Digit)
Test current: ≥ 200 mA (≤ 2Ω + Rcomp); Test voltage: 4 V DC … 10 V DC, Polarity reversing			
Test lead zero (Rcomp)	Up to 3 Ω		
Insulation resistance RINS			
0.20 - 99.99 MΩ, 100.0 - 199.9 MΩ, 200- 999 MΩ		0.01, 0.1, 1 MΩ	± (5 % + 5 Digit)
Test voltage @ no load	50 V / 100 V / 250 V up to 199.9 MΩ 500 V / 1000 V up to 999 MΩ	1 V	0 % to + 20 %
Test voltage @ ≥ 1 mA	250 V @ 250 kΩ, 500 V @ 500 kΩ, 1000 V @ 1 MΩ	1 V	0 % to + 10 %
Testing current	Min. 1 mA (@ 250 kΩ / 500 kΩ / 1 MΩ), Max. 1.5 mA (short circuit)		
Surge Protection Devices (SPD)			
50 V DC - 1000 V DC		1 V DC	± (10 % + 5 Digit)
AC/DC voltage measurement via 4 mm test sockets			
5.0 - 99.9 VAC, 100 - 1000 VAC, 5.0 - 99.9 VDC, 100 - 1500 VDC		0.1, 1 V	± (2.5 % + 2 Digit)
AC/DC current with clamp			
1.0 - 400 A DC, 1.0 - 400 A AC TRMS		0.1 A	± (5 % + 2 Digit)
Blocking Diode Check (VBD)			
0.00V dc - 6.00V dc		0.01V dc	± (5 % + 10 Digit)
AC/DC Power measurement (with clamp)			
5.0 V AC - 1000 V AC, 5.0 V DC - 1500 V DC		0.1 V	± (2.5 % + 2 Digit)
1 - 400 A AC/DC		0.1 A	± (6.5 % + 3 Digit)
5 - 400 kW/kVA		1 kW/kVA	± (10 % + 4 Digit)
Environmental measurements (remote unit: 1317BT)			
Irradiation 50 to 1400 W/m²		1 W/m²	± (5 % + 2 Digit)
Ambient temperature -30°C to 100°C		0.1°C	±1.0°C (±2°F)

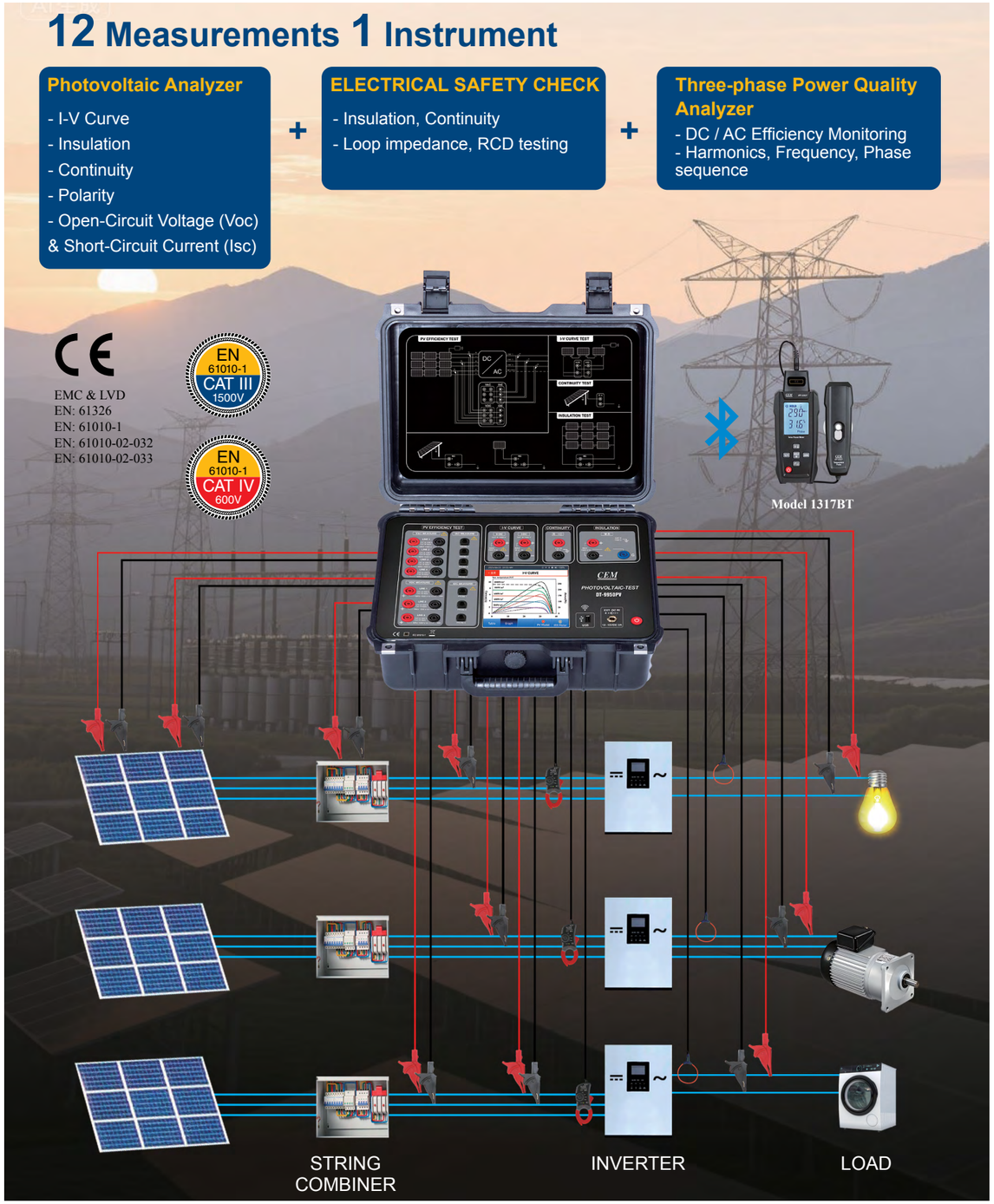
Electrical Installation Measurements Specifications

Function	Measuring range	Basic accuracy
Loop impedance (EN 61557-3)	0.00 Ω ... 9.99 kΩ	±(5 % of reading + 5 digits)
Line impedance (EN 61557-3)	0.00 Ω ... 9.99 kΩ	±(5 % of reading + 5 digits)
Frequency	0.00 Hz ... 499.9 Hz	±(0.2 % of reading + 1 digits)
Phase sequence (EN 61557-7)	1.2.3 or 3.2.1	
Energy	0.000 Wh - 1999 kWh	
Harmonics	up to 50th	
RCD testing (EN 61557-6)	IΔN: 10 mA, 30 mA, 100 mA, 300 mA, 500 mA, 1 A	



Size(HxWxD): 276mm x 86mm x 212mm
Weight: 736g
Accessories: Test leads, Li-ion rechargeable battery, Software, gift box with carrying case, adaptor.

Performance, Maintenance And Electrical Safety For Single-Phase, Three-Phase And Multi-String Photovoltaic Systems



DT-9950PV
Advanced multifunction instrument for I-V curve measurements up to 1500V & 40A

The 9950PV is a portable instrument designed to meet all the needs of the technicians and the professionals involved during the commissioning, testing and maintenance of photovoltaic systems. The instrument has a built-in 32G TF storage card, Supports USB storage and copying of data & bluetooth interface.

Specifications

Measuring range	Resolution	Basic accuracy
Voltage		
3 to 2000.0V DC	0.1V	± (1.0 % + 2 Digit)
3 to 1000.0V AC	0.1V	± (1.5 % + 2 Digit)
Current		
1 to 1000A DC	0.1 - 1A	± (1.0 % + 2 Digit)
1 to 3000A AC	0.1 - 1A	± (1.0 % + 2 Digit)
Environmental measurements (remote unit: 1317BT)		
Irradiation 50 to 1400 W/m^2	1 W/m^2	± (5 % + 2 Digit)
Ambient temperature -30°C to 100°C	0.1°C	±1.0°C (±2°F)
I-V CURVE (OPC & STC)		
DC Voltage 0.005 to 1500V	0.005-0.1V	± (1.0 % + 2 Digit)
DC Current 0.005 to 15A (max 40A)	0.005-0.1A	± (1.0 % + 2 Digit)
Power 5 to 9999W DC	1W	± (1.5 % + 2 Digit)
Continuity		
0.01 to 99 Ω	0,01-1 Ω	± (2.0 % + 5 Digit)
Testing current	> 200mA according to EN 61557-4	
Insulation		
0.25 to 199.9 MΩ (Traditional test method)	0.01-1 MΩ	± (5.0 % + 5 Digit)
Selectable test voltage 250-500-1000 V		
Test method with live conductors, no need for voltage interruption between positive and negative pole from 0.25 to 99.9 MΩ / 0.01-1 MΩ / Selectable test voltage 250-500-1000 V		
Efficiency DC / AC ((real time measurement))		
Irradiation, temperature (ambient/module), AC/DC power (actual and theoretical available), Power factor, AC/DC voltage, AC/DC current, performance ratio PRp and AC/DC efficiency, vector diagram V-I		
Logging (recording with a programmable cadence and duration)		
Irradiation, temperature (ambient/module), AC/DC power (actual and theoretical available), Power factor, AC/DC voltage, AC/DC current, performance ratio PRp and AC/DC efficiency		

Three-phase Power Quality and Energy Analyzer Specifications

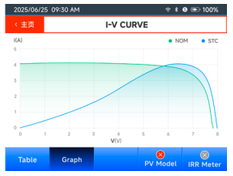
	Range	Resolution	Accuracy
Volt			
Vrms (AC+DC)	1V to 1000V phase to neutral	0.1V	± 0.5% of nominal voltage
Vpk	1Vpk to 1400 Vpk	1V	5.0% of nominal voltage
Voltage Crest Factor (CF)	1.0 > 2.8	0.01	±5.0 %
Amps (accuracy excluding clamp accuracy)			
Amps (AC +DC)	0.5A to 6000A	0.1A	± 0.5% ± 5counts
Apk	8400 Apk	1 Arms	± 5.0%
A Crest Factor (CF)	1 to 10	0.01	± 5.0%
Hz			
Hz	42.500 Hz to 460 Hz	0.001 Hz	± 0.01Hz
Watts (VA, var)	max 6000 MW,	0.1W to 1MW	± 1.0% ± 10counts
Power factor	0 to 1	0.001	± 0.1% @ nominal load conditions
Harmonics			
Harmonic order (n)	DC, 1 to 50 Grouping: Harmonic groups according to IEC 61000-4-7		
Inter-harmonic order (n)	OFF, 1 to 50 Grouping: Harmonic and Interharmonic subgroups according to IEC 61000-4-7		
Volts	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 1000 V (Absolute)	0.1V	± 5.0%
Amps	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 600A (Absolute)	0.1A	± 5.0% ± 5counts
Watts	0.0 % to 100 % (%f or %r)	0.1%	± n x 2%
	Depends on clamp scaling and V nominal (Absolute)		± 5.0% ± n x 2% ± 10counts
Phase Angle	-360° to +0°	1°	± n x 1°

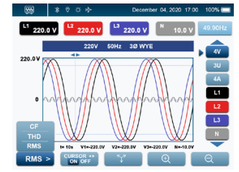
Size(HxWxD): 240mm x 160mm x 100mm
Weight: 736g
Accessories: Power supply/ battery charger, remote unit + power cable / USB charger, AC clamp (x3), DC clamp (x3), cables 3m red and black (x6), cables I-V red and black, crocodile clips red and black (x2), Flexible female rod 4 mm (x6).

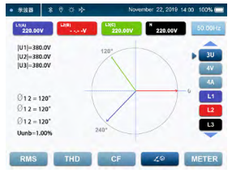


Model 9950PV











Multifunction instrument for electrical safety testing and troubleshooting of photovoltaic systems up to 1500V DC.



- Measurement category CAT III 1500V DC / CAT IV 600V
- AC TRMS voltage measurement
- DC voltage measurement
- Insulation resistance 250, 500, 1000, 1500V
- Measurement of polarization index P.I.
- Dielectric absorption ratio D.A.R
- Insulation measurement up to 1500V DC even on live systems
- Localization of the faulty module through the new GFL (Ground Fault Locator) function
- Continuity of the protective conductor with 200mA
- RCD IA tripping current measurement for unidirectional pulsating residual current
- The instrument has a built-in 32G TF storage card & bluetooth interface.



Model 1505PV

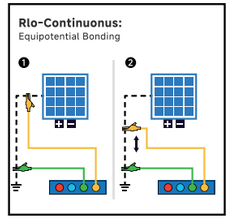
Specifications

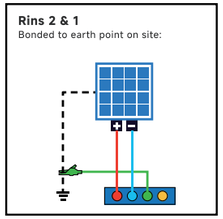
Measuring range		Resolution	Basic accuracy
DC Voltage 3 to 1500V		0.1V	± (1.0 % + 2 Digit)
AC TRMS Voltage 3 to 1000V		0.1V	± (1.0 % + 3 Digit)
Insulation Resistance (MΩ)-DUAL Mode			
Test voltage DC 250V, 500V, 1000V, 1500V	0.2 - 99.99MΩ	0.01 MΩ	± (5% + 5 Digit)
	100.0 - 199.9MΩ	0.1MΩ	
	200 - 999MΩ	1MΩ	
Insulation Resistance (MΩ)-TIMER Mode			
Test voltage DC 250V, 500V, 1000V, 1500V	0.01 - 9.99MΩ	0.01 MΩ	± (5% + 5 Digit)
	10.0 - 99.9MΩ	0.1MΩ	
Continuity of protection conductors (RPE)			
0.00 - 9.99Ω, 10.0 - 99.9Ω, 100 - 1999Ω		0.01 Ω, 0.1Ω, 1Ω	± (2 % + 2 Digit)
GFL (Ground Fault Locator) function			
Test voltage DC 250V, 500V, 1000V, 1500V	0.2 - 99.99MΩ	0.01 MΩ	± (5 % + 5 Digit) Position accuracy: ± 1module
	100.0 - 199.9MΩ	0.1MΩ	
	200 - 999MΩ	1MΩ	
Surge Protection Devices (SPD)			
50 V DC - 1500 V DC		1 V DC	± (10 % + 5 Digit)
Blocking Diode Check (V_{BD})			
0.00V dc - 6.00V dc		0.01V dc	± (5 % + 10 Digit)

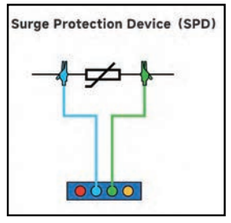
RCD I_A tripping current measurement for unidirectional pulsating residual current

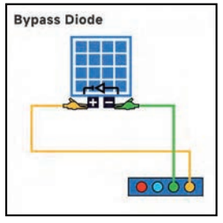
Selected RCD rated current	Measurement range	Resolution	Test current	Basic uncertainty
10 mA	3.0~21.0 mA	0.1 mA	0.30 ~ 2 x IΔn	±10% IΔn
30 mA	9.0~45.0 mA		0.30 ~ 5 x IΔn	
100 mA	30~150 mA	1 mA		
300 mA	90~450 mA			

Size(HxWxD): 276mm x 86mm x 212mm
Weight: 736g
Accessories: Test leads, Li-ion rechargeable battery, Software, gift box with carrying case, adaptor.



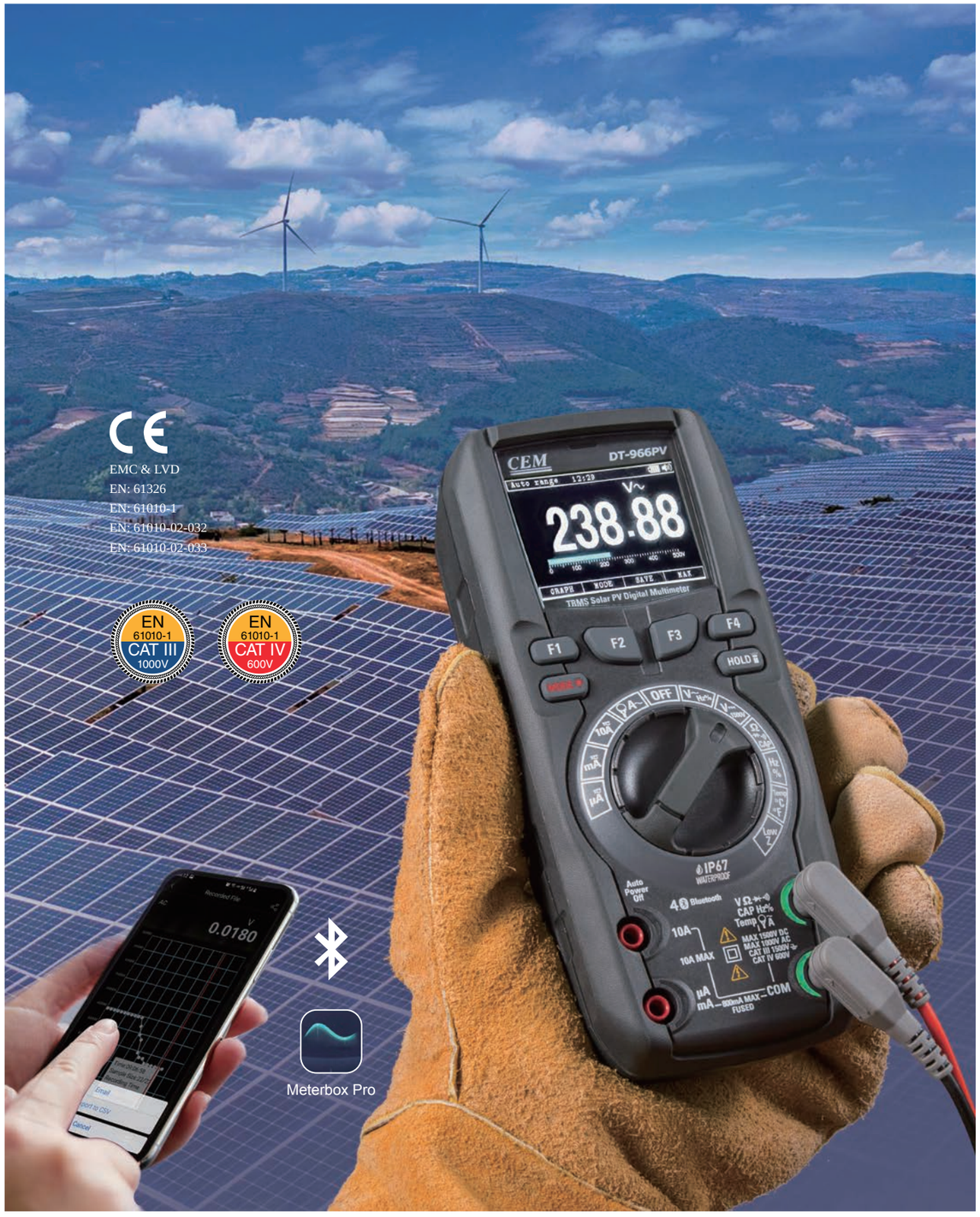








CATIII 1500V Solar PV Multimeter with Wireless Charging



DT-965PV/965H/966PV/966H
CATIII 1500V Solar PV Multimeter with Wireless Charging



965PV/966PV Solar PV Multimeters are new compact meters with double molded plastic housing. Patented design with dial, knob button backlight and over sized high contrast 60,000/6000 counts LCD/ Color LCD display. They are CATIII 1000V/CATIV 600V CAT IV1000V/CATIII 1500V.

Features

	965PV	965H	966PV	966H
6000/60000 Counts LCD display	*	*	Color LCD display	Color LCD display
AC True-RMS measurement	*	*	*	*
A/D convert fast sampling time	*	*	*	*
AC+DC Voltage TEST	*	*	*	*
2000VDC measurement for Photovoltaic output	*	*	1500V	*
Data Hold, Relative Mode	*	*	*	*
Flash light	*	*	*	*
3000A ACA flexible clamp		*	*	*
Low pass filter for accurate measurement of variable frequency drive (VFD)	*	*	*	*
Backlight for LCD, Knob,Switch	*	*	*	*
LEAD ALERT PROTECTION	*	*	*	*
Input terminal LED indication	*	*	*	*
IP67 Waterproof	*	*	*	
2000V Photovoltaic Voltage test probe	*	*		*
Peak capture (<1ms)			*	*
Bluetooth interface for easy data transfer			*	*
Logging function with Trend Capture for easy review of logged data			*	*
Graph 100 Data review			*	*
Setup function & save measurement			*	*
Analog Bargraph			*	*
Wireless charging			*	*

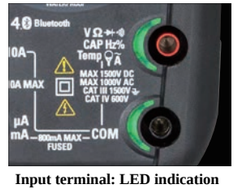
Specifications

Function	Maximum	Max, resolution	Basic Accuracy	965PV	965H	966PV	966H
Voltage DC	1000V	10mV	±(0.5% + 5 digits)	*	*	*	*
		100mV					
Voltage AC	1000V	10mV	±(0.8% + 8 digits)	*	*	*	*
		100mV					
Voltage AC+DC	1000V	10mV	±(3.0% + 5 digits)	*	*	*	*
		100mV					
Current DC	10A	0.01μA	±(1.0% + 3 digits)	*	*	*	*
		0.1μA					
Current AC	10A	0.01μA	±(1.0% + 3 digits)	*	*	*	*
		0.1μA					
Current AC	3000A	0.01A	±(2.5% + 10 digits)	*		*	*
PV DC Voltage	2000V	1V	±(2.0% + 5 digits)	*	*	1500V	*
PV AC Voltage	1500V	1V	±(2.0% + 5 digits)	*	*		*
Resistance	60MΩ	10 mΩ	±(1.2% + 5)	*	*	*	*
		100 mΩ					
Temperature	1000℃/ 1832℉	0.1/1℃/℉	±(1.0% + 5℃)	*	*	*	*
Capacitance	100mF	0.01nF	±(3.0% + 5 digits)	*	*	10mF	10mF
Frequency	10MHz	0.001Hz	±(1.0% + 5 digits)	*			
Diode and Continuity	Yes						
Power Supply	1.5Vx4 “AAA” batteries.			YES	YES	Li-ion battery	Li-ion battery

Size(HxWxD): 178mm x 76mm x 56mm **Weight:** 300g

Accessories: Test leads, 1.5AAA x 4 batteries, Li-ion battery, 2000V Photovoltaic Voltage test probe, Temperature Probe, carrying case and gift box, with 320B(Optional)





Input terminal: LED indication



Wireless charging



Model 965PV

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

TÜVRheinland ZERTIFIZIERT
www tuv com

EN 61010-1 CAT III 1500V

EN 61010-1 CAT IV 600V

Meterbox Pro



Model 966PV

CAT III 1500V Solar PV Clamp Meters with 120x120 InfraRed Thermal Imager

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1500V

EN 61010-1 CAT IV 600V



Model DT-320BS
Flexible clamp (optional)

DT-9582PV/9583PV/9583A/9583W
CAT III 1500V Solar PV Clamp Meters with 120x120 InfraRed Thermal Imager
CEM



- *Fast response time*
- *True RMS*

- *TFT color LCD display*
- *6000 counts*

CE

Features

Built-in Thermal Imager with 120x120 InfraRed resolution quickly and safely identifies hot spots without contact
2.4" TFT color 6000 counts LCD display with 240x320 pixels for easy and clear viewing of images and readings (9582PV/9583W/9583PV)
True RMS measurement for ACV / ACA / LoZ for ACV measurement
Low pass filter for accurate measurement of variable frequency drive (VFD) signals
1.4" (37mm) Jaw opening
Flexible current probe (320B/320BS optional) expands the measurement range to 3000 ACA (9582PV/9583PV)
AC, AC+DC True RMS measurement & 1KHz ACV, ACA bandwidth
A/D convert fast sampling time: 10 times/sec
Peak capture as fast as 500µS & Inrush current
Min/Max/Avg with Time stemp (records signal fluctuations)
With Bluetooth connect to Thermview+ smart phone App for documentation reporting and sharing
Logging function with Trend capture for easy review of logged data
Double molded plastic housing for safe testing and flashlight for dark location

Specifications

			9583A	9583W	9582PV	9583PV
Thermal Imager						
IR resolution	120x120 pixels					*
Field of View (FOV)	21° x 21°					*
Thermal sensitivity/NETD	< 0.08°C /80mK					*
Image frequency	50Hz					*
Object temperature range	-20 to 260°C (-4 to 500°F)					*
Spectral range	8-14 µm					*
Color palettes	Iron/Rainbow/Grey/Grey Inverted/ Feather					*
Accuracy	±2°C (±3.6°F) or ±2% of reading					*
True RMS Multimeter Functions						
Function	Maximum	Best Accuracy	9583A	9583W	9582PV	9583PV
Voltage DC	1500V	±(0.5% + 8d)	*	*	*	*
AC True RMS Voltage	1000V	±(1.2% + 5d)	*	*	*	*
Current DC	1000A	±(2.5% + 5d)	*	*	*	*
AC True RMS Current	1000A	±(2.5% + 8d)	*	*	*	*
Flexible A	3000A	±(3.0%+5d)			*	*
Resistance	60MΩ	±(0.8% + 5d)	*	*	*	*
Capacitance	99.99mF	±(3.0% + 5d)	*	*	*	*
Frequency	9.999MHz	±(1.2% + 5d)	10kHz	*	*	*
Inrush Current	1000A	±(2.5% + 8d)	*	*	*	*
Temperature	1000ºC/1832ºF	±(1.5%+5ºC)	*	*	*	*
Diode Check	Yes		*	*	*	*
Continuity	50Ω		*	*	*	*
Loz				*	*	*
Interface	Bluetooth		*	*	*	*
Voltage and Current Harmonics						
Harmonic order Fundamental frequency(45Hz~65Hz)	1~25	±(5.0% + 10d)	*	*		
	THD%	±(8.0% + 10d)	*	*		
Power						
DC Power	999.9KW	±(3.5% + 5d)	*	*		
Active AC Power	999.9KW	±(3.0% + 5d)	*	*		
Apparent AC Power	999.9KWA	±(3.0% + 5d)	*	*		
Active Energy AC	999.9KWh	±(3.0% + 5d)		*		
Power Factor	-1.0~0 , 0~1.0	±(3.0% + 1d)	*	*		

Size(HxWxD): 90mm x 285mm x 45mm **Weight:** 550g

Accessories: Test leads, gift box with carrying case, Temperature probe, Li-ion rechargeable battery (9582PV/9583W/9583PV), 3x1.5V AAA Battery (9583A), AC Charger



Model 9583PV



Model 9583W



Model 9583A



Model 9582PV

DT-6517PV

Multifunction PV Tester



Model 6517PV



Model CP-03BT

6517PV is a multifunctional measuring device designed to measure the parameters of photovoltaic systems and the parameters of the inverter connection points to the power grid. It allows you to perform the necessary measurements for a photovoltaic system according to category 1 specified in standard "IEC 62446-1 - Photovoltaic systems (PV). Testing, documentation and maintenance requirements.

Features

- DC voltage of an open module / chain PV – UOC,
- AC voltage on the AC side (connection of the inverter to the power grid),
- DC short-circuit current of the PV module/chain – ISC,
- RISOPV insulation resistance of the PV system on the DC side by method 1 according to IEC 62446-1 standard (i.e. the measurement does not cause a module / string short-circuit), allowing the determination of the insulation resistance of the PV module / string at both poles: RISO+ and RISO-,
- RISO insulation resistance of the PV system on the AC side (connection of the inverter to the power grid),
- DC current and power of the PV module / string / system on the DC side,
- DC and power of the PV system on the AC side (connection of the inverter to the power grid), circuit continuity (RCONT) of the earthing and equipotential bonding cables of the PV module / string, parameters of the blocking diode, used in PV systems.
- The Bluetooth module is used for communication between the meter and a computer in order to download the results from the memory.

Specifications

Protective conductor resistance RLO			
Display range	Measuring range	Resolution	Accuracy
0.00 Ω - 19.99 Ω	0.20 Ω - 19.99 Ω	0.01 Ω	± (2 % + 2 Digit)
20.0 Ω- 199.9 Ω	20.0 Ω - 199.9 Ω	0.1 Ω	± (2 % + 2 Digit)
200 Ω - 2000 Ω	200 Ω - 2000 Ω	1 Ω	± (5 % + 2 Digit)
Test current	≥ 200 mA (≤ 2Ω + Rcomp)		
Test voltage	4 V DC … 10 V DC		
Polarity reversing	Yes		
Test lead zero (Rcomp)	Up to 3 Ω		
PV module/PV string, open-circuit voltage (Voc)			
0.0 V - 99.9 V	5.0 V - 99.9 V	0.1 V	± (0.5 % + 2 Digit)
100 V - 1500 V	100 V - 1500 V	1 V	± (0.5 % + 2 Digit)
Polarity test	Yes		
PV module/PV string, short-circuit current (Is/c)			
0.0 A - 20.0 A	0.2 A - 20.0 A	0.1 A	± (1 % + 2 Digit)
Insulation resistance RINS			
0.00 MΩ - 99.99 MΩ	0.20 MΩ - 99.99 MΩ	0.01 MΩ	± (5 % + 5 Digit)
100.0 MΩ - 199.9 MΩ	100.0 MΩ - 199.9 MΩ	0.1 MΩ	± (5 % + 10 Digit)
200 MΩ - 999 MΩ	200 MΩ - 999 MΩ	1 MΩ	± (8 % + 10 Digit)
Test voltage @ no load	50 V / 100 V / 250 V up to 199.9 MΩ 500 V / 1000 V up to 999 MΩ	1 V	0 % to + 20 %
Test voltage @ ≥ 1 mA	250 V @ 250 kΩ、500 V @ 500 kΩ 1000 V @ 1 MΩ	1 V	0 % to + 10 %
Testing current	Min. 1 mA (@ 250 kΩ / 500 kΩ / 1 MΩ) Max. 1.5 mA (short circuit)		
Overvoltage protective devices (BV)			
0 V DC - 1500 V DC	50 V DC - 1500 V DC	1 V DC	± (10 % + 5 Digit)
AC/DC voltage measurement			
0.0 V AC - 700 V AC		0.1 V/ 1V	± (2.5 % + 2 Digit)
0.0 V DC - 1500 V DC		0.1 V/ 1V	± (2.5 % + 2 Digit)
AC/DC current with clamp			
0.0 A DC – 100 A DC	1.0 A DC – 100 A DC	0.1 A	± (5 % + 2 Digit)
0.0 A AC – 100 A AC TRMS	1.0 A AC – 100 A AC TRMS		± (5 % + 2 Digit)
AC/DC Power measurement			
0 kW/kVA – 100 kW/kVA	5 kW/kVA – 100 kW/kVA	1 kW/kVA	± (10 % + 4 Digit)

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, Copper rod, Test leads with Kelvin clips (red & black), 6 x 1.5V "AA" batteries, Type K temperature probe, Software, gift box with carrying case.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT IV 600V

EN 61010-1 CAT II 1500V



DT-6518W

Professional Solar PV/EV True RMS Multimeter & Insulation Tester

The 6518W CAT II 1500V true RMS digital multimeter and true RMS bluetooth current clamp set a new standard for technicians working in DC environments up to 1500V. Whether you are measuring utility scale solar photovoltaic (PV) arrays, wind energy, electrified railways, or data centers, carefully designed to enhance safety and increase productivity, while providing you with accurate, reliable, and reproducible results.

Features

- Large 240 x 320 3.5" RGB color 6000 counts LCD display
- Insulation test voltages 125V, 250V, 500V, 1000V
- Capable of measuring up to 400 A AC/DC current for more accurate safety troubleshooting of module strings (using wireless current clamps)
- The clamp meter adapter can be used to measure AC and DC currents (Optional)
- 1500V Photovoltaic Voltage test
- Insulation test: 0.001MΩ to 6000MΩ
- PI/DAR timed ratio tests
- Logging function with Trend Capture for easy review of logged data
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- AC, AC+DC True-RMS measurements & 1kHz ACV, ACA bandwidth
- Peak capture (records transients as fast as 500μs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- High voltage and overload indication
- Lock power on function for hands-free operation
- K-type thermocouple
- Auto discharge of voltage test signal
- Power kVA measurement
- Bluetooth BLE instant share function, Easy to view and analyze images quickly
- CAT II 1500V, CAT III 1000V, CAT IV 600V measurement category

Specifications

True RMS Multimeter Functions			
Function	Max. Range	Max. resolution	Best Accuracy
Voltage DC	1500V	1mV	±(0.5% + 5)
Voltage AC	1000V	1mV	±(1.0% + 5)
Low Z AC Voltage	600V	1mV	±(3.0% + 40)
Current DC	30A	0.01A	±(2.5%+5)
Current AC	30A	0.01A	±(2.5%+5)
Temperature (Type-K)	-20°C to 1000°C	0.1/1°C	±(3.0% + 5°C)
	-4°F to 1832°F	0.1/1°F	
Resistance	60MΩ	0.1Ω	±(1.5% + 5)
Capacitance	6000μF	10pF	±(3.0% + 5)
Frequency (electrical)	9.999kHz	1Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	6x1.5V AA battery		

Insulation Tester				
Terminal Voltage	Range	Max. Resolution	Accuracy	Test Current
125V(0% ~20%)	0.125~6000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ
250V(0% ~20%)	0.250~6000MΩ		±(2%+10)	1mA @load250kΩ
500V(0% ~20%)	0.500~6000MΩ		±(2%+5	1mA @load1500kΩ
1000V(0% ~20%)	1.000~6000MΩ		±(3%+5)	1mA @load1MΩ

kVA			
Function	Range	Resolution	Accuracy
AC VA (45~500Hz)	600.0 VA	0.1 VA	2% + 1.0 VA
	6.000 kVA	0.001 kVA	2 % + 0.01 kVA
	60.00 kVA	0.01 kVA	2 % + 0.1 kVA
	600.0 kVA	0.01 kVA	2 % + 0.15 kVA
DC VA	600.0 VA	0.1 VA	2% + 1.0 VA
	6.000 kVA	0.001 kVA	2 % + 0.01 kVA
	60.00 kVA	0.01 kVA	2 % + 0.1 kVA
	600.0 kVA	0.01 kVA	2 % + 0.25 kVA

Specifications of Bluetooth Current Clamp			
AC Vurrent	40/400A	0.01A	1.5% + 0.15 A, 45～500Hz
DC Vurrent	40/400A	0.01A	1.5% + 0.15 A

Size(HxWxD): 97mm x 210mm x 68mm **Weight:** 634g

Accessories: Test leads, Copper rod, Test leads with Kelvin clips (red & black), 6 x 1.5V "AA" batteries, Type K temperature probe, Software, gift box with carrying case.



Model 6518W

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model CP-03BT

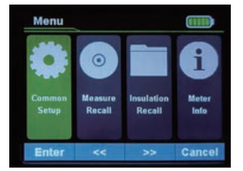
EN 61010-1 CAT IV 600V

EN 61010-1 CAT II 1500V

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BT-3701
Battery Tester

portable battery testers support the maintenance of UPS and storage batteries critical to the life support of all businesses. The BT- battery internal resistance tester sets the standard for assessing the deterioration and remaining life of UPS and other lead-acid batteries by giving a complete diagnosis via battery resistance testing.



Model BT-3701

Features

Battery measurement can be performed while the battery is connected to its host device, without taking it offline
Measure and save data in 2 seconds.
Instantaneously diagnose battery degradation (PASS, WARNING, FAIL) by measuring internal resistance and voltage.
Noise reduction technology improves noise resistance.
Screen and audio guidance simplifies measurement.
Measurement data is linked to site information and saved, reducing management man-hours.

Specifications

	Range	Accuracy
Resistance measurement range	3 mΩ (max. display 3.100 mΩ, resolution 1 μΩ) to 3 Ω (max. display 3.100 Ω, resolution 1 mΩ), 4 ranges	±0.8 % rdg ±6 dgt (3 mΩ Range: ±1.0 % rdg ±8 dgt)
	Testing source frequency: 1 kHz ±30 Hz With function for avoiding noise frequency enabled: 1 kHz ±80 Hz	
	Testing current: 160 mA (3m/30 mΩ range), 16 mA (300 mΩ range), 1.6 mA (3 Ω range)	
	Open terminal Voltage: 5 V peak	
Voltage measurement range	± 6 V (max. display ±6.000 V, resolution: 1 mV) to ± 60 V (max. display ±60.00 V, resolution: 10 mV), 2 ranges,	±0.08 % rdg ±6 dgt
Temperature measurement accuracy	-10°C to 60°C (14°F to 140°F), Maximum display: 60.0°C	±1.0°C (±1.8°F)
Absolute max. input voltage	60 V DC max. (No AC input)	
Measurement time	100 ms	
Response time	Approx. 1.6 sec.	



Size(HxWxD): 97mm x 68mm x 210mm **Weight:** 516g

Accessories: Carrying Case, Protector, Fuse Set, 0 Adj Board, USB cable, Application software CD, AA alkaline battery (LR6) ×8



DT-1200PV
PV Insulation Tester with 200mA Short Circuit Test

1200PV has the function of measuring photovoltaic live insulation resistance (it can measure photovoltaic insulation resistance without power outage/short circuit of photovoltaic solar panels or at night, the maximum DC 1500V), ordinary insulation resistance function (non-live),AC and DC voltage automatic recognition measurement, stepping voltage, Bluetooth transmission, automatic discharge, high voltage live warning, remote control test pen operation test and other functions.
This product is often used in the insulation resistance test of photovoltaic power generation panels, battery energy sturage, new energy vehicles, and other equipment.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 1500V

Bluetooth



Model 1200PV

- The open circuit voltage of the PV panel or a chain of panels, up to 1500V DC.
- RMS voltage of the AC network up to 1000 V with frequency measurement.
- Insulation resistance of PV panels - measuring voltage of 100, 250, 500 or 1000 V, simultaneous measurement of two values: RISO+ and RISO-.
- Resistance of protective conductors and equipotential bonding with ± 200 mA current. Low-current resistance measurement, audible and visual signalling.
- Diode test with 200 mA current, automatic polarity detection. Test of blocking diodes with 1500V DC voltage.
- Built-in Bluetooth module for communication with a computer.

Specifications

AC/DC voltage			
0.0 V AC - 99.9 V AC	5.0 V AC - 99.9 V AC	0.1 V	± (2.5 % + 2 Digit)
100 V AC - 1000 V AC	100 V AC - 1000 V AC	1 V	± (2.5 % + 2 Digit)
0.0 V DC - 99.9 V DC	5.0 V DC - 99.9 V DC	0.1 V	± (2.5 % + 2 Digit)
100 V DC - 1500 V DC	100 V DC - 1500 V DC	1 V	± (2.5 % + 2 Digit)
Protective conductor resistance R_{LO}			
Display range	Measuring range	Resolution	Accuracy
0.00 Ω - 19.99 Ω	0.20 Ω - 19.99 Ω	0.01 Ω	± (2 % + 2 Digit)
20.0 Ω- 199.9 Ω	20.0 Ω - 199.9 Ω	0.1 Ω	± (2 % + 2 Digit)
200 Ω - 2000 Ω	200 Ω - 2000 Ω	1 Ω	± (5 % + 2 Digit)
Short circuit test current (Rcont)	≥ 200 mA (≤ 2Ω)		
Test voltage	4 V DC … 10 V DC		
Polarity reversing	Yes		
Test lead zero (Rcomp)	Up to 3 Ω		
Blocking Diode Check (V_{BD})			
0.00 V DC to 6.00 V DC	0.50 V DC to 6.00 V DC	0.01 V DC	±(5 %+ 10 Digit)
Insulation resistance			
0.00 MΩ - 99.99 MΩ	0.20 MΩ - 99.99 MΩ	0.01 MΩ	± (5 % + 5 Digit)
100.0 MΩ - 199.9 MΩ	100.0 MΩ - 199.9 MΩ	0.1 MΩ	± (5% + 10 Digit)
200 MΩ - 999 MΩ	200 MΩ - 999 MΩ	1 MΩ	± (8% + 10 Digit)
Test voltage @ no load	100 V / 250 V up to 199.9 MΩ 500 V / 1000 V up to 999 MΩ	1 V	0 % to + 20 %
Test voltage @ ≥ 1 mA	250 V @ 250 kΩ 500 V @ 500 kΩ 1000 V @ 1 MΩ	1 V	0 % to + 10 %
Testing current	Min. 1 mA (@ 250 kΩ / 500 kΩ / 1 MΩ) Max. 1.5 mA (short circuit)		

Size(HxWxD): 97mm x 68mm x 210mm **Weight:** 268g

Accessories: Auxiliary Earthing Rod (2 piece set) ×2, Measurement Cable, Test Lead, Earth Nets Module ×2, Carrying Case, Protector , LR6 Alkaline battery ×4.

Power Partial Discharge Detector



DT-1000P
Power Partial Discharge Detector
CEM

DT-1000P power partial discharge detector is a handheld, pre-screening, tool-type three-in-one professional live detection instrument, which can be configured with AA/AE (external) ultrasound, TEV transient ground wave, temperature sensor and other external sensors, suitable for substations, switch stations and outdoor and other power equipment live detection work. The instrument adopts multi-sensor combination detection method, and uses a variety of sensors such as transient ground wave (TEV) and ultrasonic (AE) to comprehensively detect the partial discharge of power distribution equipment, and realize the direct monitoring of uninterrupted power of power equipment such as transformers and switchgear. DT-1000P power partial discharge detector can comprehensively evaluate the insulation condition according to a variety of characteristics, detect the partial discharge amount, and estimate the discharge intensity of the discharge power supply according to the strength of the acoustic and electrical signal. DT-1000P power partial discharge detector has the function of recording and storing the detection waveform, which is small in size, light in weight, convenient and quick to operate. It supports wireless data upload, cloud platform interconnection, and GPS positioning, which can effectively prevent the occurrence of line faults and improve the reliability of power supply and transformation equipment.

CE

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033



Model 1000P

Features

- Portable design, small size, light weight, easy to carry, one person can operate;
- High-brightness large-size touch LCD screen, grasp every detail, convenient operation;
- The embedded GPS receiver automatically stores coordinate data for easy querying and saving of detection paths;
- With the function of detecting temperature and humidity, it can detect the ambient temperature and humidity in real time;
- With data saving function, upload data to the cloud platform, and realize the function of data analysis review;
- High sensitivity, directionality and directivity, accurate location of line faults;
- The detection adopts non-contact mode, and the effective detection is safe and reliable;
- The abnormal discharge signal detected by the detector is converted into audible signal and intuitive waveform, and the discharge intensity can be clearly distinguished according to the sound and waveform
- Live detection, does not affect the normal operation of the inspected equipment;
- The instrument can be expanded with a variety of external sensors and flexibly used in various detection scenarios

Specifications

Function	Built-in partial discharge detection channel			
Air-based ultrasonic sensors (AA)	Test Rang	Centre Frequency	Accuracy	Resolution
	-7dBμVto 68dBμV	40KHz	±1dB	1dB
Transient ground wave sensor (TEV)	Frequency Rang	Test Rang	Accuracy	Resolution
	3-80MHz	0~60dBmV	±1dB	1dB
LCD				
Resolution	5"TFT with backlight			
Brightness	500 cd/m² (Typ.)			
LCD Resolution	480×800			
Contrast ratio	700:1 (Typ.) (penetrance)			
Viewing angle	85/85/85/85 (Typ.)(CR≥10)			
Nomber of colors	16.7M (8-bit)			
Interfaces	4G,GPS,USB			
Audio Out	Headphones can be connected to monitor ultrasound signals and configure headphones			
Sensor	Temperature and humidity sensor			
Memory	8GB			
Power	Built-in rechargeable battery, supply adapter power, lasts for 8 hours			

Size(HxWxD): 220mm x 96mm x 60mm **Weight:** 385g

Accessories: External TEV sensor, Extended ultrasonic sensors, Remote ultrasonic concentrator, SD memory, Stereo monitor headphones, Temperature and humidity sensor, Adaptor, USB, gift box.



Extended ultrasonic sensors | Remote ultrasonic concentrator | External TEV sensor





CEM AI-powered arc fault detection solution integrates edge-side (device-level) AI algorithms for real-time arc detection and prevention. The cloud-based ArcVision Safety Platform performs in-depth arc fault analysis and risk prediction, ensuring safer and more reliable performance across solar PV systems, energy storage, EV charging stations, and inverters.



Industry Applications

CEM AI-powered AFCI solutions provide reliable arc fault detection and protection across critical clean energy sectors, including solar photovoltaic(PV)systems, energy storage systems, EV charging stations, and inverter systems.

EV charging stations

Utility-scale Solar Farms

Rooftop PV Plants

Energy storage system

AFD-80

The new-generation Arc Fault Circuit Interrupter (AFCI) tackles DC arc faults in photovoltaic (PV) systems. Integrated with advanced AI, it achieves highly precise arc detection, offering a 200-meter range and rapid shutdown within 500 milliseconds to enhance safety.

4G Connectivity
Upload data to the cloud

Cloud Support
For more accurate detection

HD Color Display
Real-time Signal

Specifications	
Arc Detection Level	DC Series Arc Level 5
Detectable Cable Length	80 m, 200 m (three-phase)
Number of Channels	Single Channel
Max Current	45A
Arc Energy Protection Threshold	<500 J
Arc Detection Time	< 0.5 s
Detection Accuracy	100%
External Communication	4G, RS485
Installation Method	Standard Buckle
Built-in Circuit Interrupter	Yes
Voltage of Power Supply	Direct Supply by Modules (< 1,500 V)
Size(HxWxD)	135x90x75mm
Weight	300g



Model AFD-80



AFD-74 4-Channel Arc Fault Detectors

It can be arranged on the line between the photovoltaic string and the inverter to monitor the arc fault events, and prevent arcing and other problems caused by failure of the photovoltaic device or broken cables.

Features

- Millisecond-level arc detection for rapid fault alerts
- Reliable detection across long-distance DC cabling
- Scalable design supports flexible channel configuration
- Capable of identifying high-energy arc faults

Specifications	
Operating voltage	5 Vdc
Power consumption（W）	≤5
Max current	45A
Fault alarm action time（S）	0.5
Detection accuracy	100%
Fault detection method	Time domain method, frequency domain method, high frequency method
Detection fault type	Series arc fault
Communication methods	Modbus
Size（mm）	69 x 38.5 x 35
Operating temperature(℃)	-30 ～ +70℃
Installation	35mm DIN-rail installation
Sense cable length（m）	200

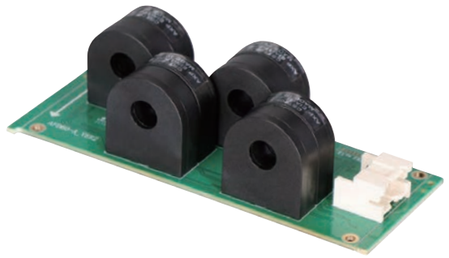

Model AFD-74

5-Level Arc Classification
Early fault detection to minimize losses.

Remote Monitoring
Cloud platform collects arc fault data in real time, reducing maintenance costs and fault rates.

AFD-60

4-Channel Arc Fault Detectors



Model AFD-60



It can be arranged on the line between the photovoltaic string and the inverter to monitor the arc fault events, and prevent arcing and other problems caused by failure of the photovoltaic device or broken cables.

Features

- Millisecond-level arc detection for rapid fault alerts
- Reliable detection across long-distance DC cabling
- Scalable design supports flexible channel configuration
- Capable of identifying high-energy arc faults

Specifications	
Operating voltage	5 Vdc
Power consumption（W）	≤5
Max current	45A
Fault alarm action time（S）	0.5
Detection accuracy	100%
Fault detection method	Time domain method, frequency domain method, high frequency method
Detection fault type	Series arc fault
Communication methods	Modbus
Size（mm）	65x35x8mm
Operating temperature(℃)	-30 ～ +70℃
Installation	35mm DIN-rail installation
Sense cable length（m）	200

AFD-90/91/92 AI Arc Fault for energy storage and charge system



Model AFD-90



Model AFD-91



Model AFD-92

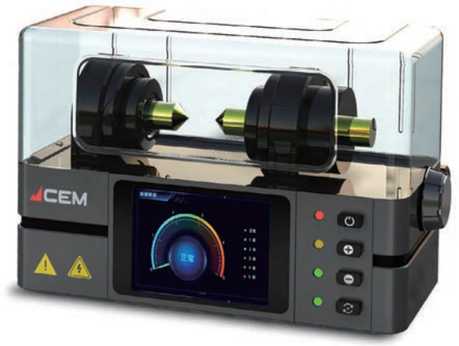
Specifications			
Model	AFD-90	AFD-91	AFD-92
Max Current	MAX 125A	MAX 300A	MAX 600A
Arc Fault alarm time	0.5s		
Detection accuracy	100%		
Communication interface	RS485, 4G wireless		
Installation method	Screw fixing		
Built-in disconnector	No		
Power supply voltage	5V		

DC Arcing Safety Solution for Supercharging & Energy Storage Systems

Eliminate arcing hazards and ensure operational safety with our advanced solution. Leveraging high-precision sensors, AI algorithms, and big data analytics, it achieves:
Real-time DC Arc Identification & Classification: AI-powered five-level signal classification enables precise, instantaneous arc detection.
Rapid Arc Suppression: Triggers immediate protective actions upon detection.
Comprehensive Prevention: Mitigates arcing risks proactively in high-voltage, high-current environments.



Arc Generator is specifically designed for PV inverter testing systems to simulate and detect arc faults at the PV input end. It addresses critical challenges in noise immunity and scenario adaptability, offering five quantitative levels for different application scenarios. Utilizing AI-powered self-learning during operation, it enhances adaptability and detection accuracy.
Compliant with UL 1699B-2018 and IEC 63027 photovoltaic DC arc-fault circuit protection standards.



AFG-1000

HD Color Display
Features a 2.8-inch touch screen

5-Level Arc Classification
Simulate and test faults at different severity levels

Patented Algorithm Support
Features a patented arc signal control algorithm, ensuring accuracy and stability in signal generation.

Portable design
Easy to carry, suitable for detection and testing in different scenarios



Specifications	
Arc signal output	10~750 Joules or 0.5~2.5 seconds
String voltage range	Up to 1500V
Current	Max 45A
Electrode material	Manganese copper
Communication interface	RS485, 4G wireless
Installation method	Screw fixing
Built-in disconnector	No
Power supply voltage	5V

■ Quantitative Grading

The arc generator offers five quantitative levels for diverse scenarios, using AI to self-learn in operation, boosting adaptability and detection accuracy.

Arc Level	Level 1	Level 2	Level 3	Level 4	Level 5
Detectable cablel length	61m	61m	80m	80m (single phase) 200m(three phase)	80m (single phase) 200m(three phase)
Max Current	0.91max	0.91max	0.91max	0.91max	1max
Arc Energy	750J	650J	600J	600J	600J
Shut off Time	2.5s	2s	1.5s	1s	0.5s
Detection Accuracy	100%	100%	100%	100%	100%



PLC

Model AFD-10

Effectively addresses arc issues in ground-mounted PV systems by enabling arc fault detection and shutdown at the string level. When an arc is detected in a string, the system performs a string-level shutdown.

1500V	100%	<0.5s	26A
Max. System Voltage	Accuracy	Arc Response Time	Max. System Current

Features

- String-level Arc Protection
- Data Monitoring
- Fully Automatic Arc Extinguishing
- Arc Protection Record
- Alarm and Active Protection
- Real-time Protection Status

Specifications	
Max. System Voltage	1500V
Max. System Current	45A
Communication Method	PLC/ LoRa
Voltage Range For Operation	20 Vdc ~ 60 Vdc
Operating Ambient Temperature	-30℃ ~+70 ℃
IP Rating	IP68
Arc Response Time	≤0.5 s
Types of Arc	UL1699B (Type1)
Dimension (Without cable & connectors)	138 x 125 x 50 mm
Max.Number of Strings	1



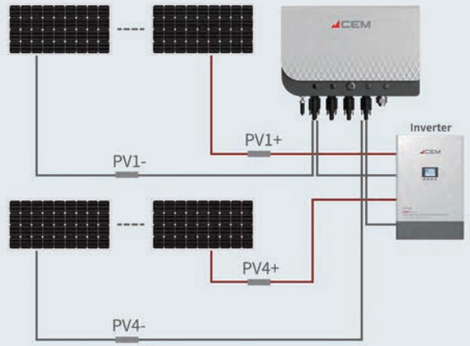
LoRa

Model AFD-20



Designed for rooftop PV systems, this solution quickly meets arc fault detection and protection requirements. It supports up to 4-channel arc fault detection and offers both WiFi and Bluetooth communication options.

4-channel arc fault detection





Arc Protection Box

Model AFD-30

Features

- **Rapid Arc Protection**
  Quickly detects and extinguishes arcs to protect the PV system
- **Flexible Configuration**
  Each unit is equipped with 4-channel arc fault detection
- **1500V Max.**
  Arc Protection Box suppots 1500V Max. System Voltage
- **Supports Remote Monitoring**
  Arc Protection Box: Remote fault monitoring via APP

Specifications	
Max. System Voltage	1500V
Max. System Current	45A
Communication Method	Bluetooth / WiFi
Voltage Range For Operation	100 Vdc ~ 260 Vdc
Operating Ambient Temperature	-30℃ ~+70 ℃
IP Rating	IP66
Arc Response Time	≤0.5 s
Types of Arc	UL1699B (Type1)
Dimension (Without cable & connectors)	245 x 160 x 80 mm
Max.Number of Strings	4



Professional Multi-Function Testers







Coating Thickness Tester P343

DT-159 is a 2.4" TFT color LCD display coating thickness tester with temperature and humidity measurement. Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques. The measuring data is easily transfered to PC to edit and store. The LCD screen can auto-rotate with 0°, 90°, 180°, 270°.



Pen-type Laser Distance Meter P364

iLDM-30/50/LDM-30/50 Pen-type Laser Distance Meter is designed to use easily as a high-precision measurement tool. New compact design fits in every pocket and safely in places where access difficultly.



High Definition Video Borescope P373

BS-380 High definition 8" Color TFT LCD, supporting 4MP photo/full HD video, time/date display and multi-languages.Video and images can also be transferred to your PC via the SD Card or USB cable(included). Modern design housing with waterproof (IP67) flexible gooseneck retains configured shape.



Cable Length Tester P352

CLT-1000 cable length tester features high accuracy and fast reflection, which finds distance to use Time Domain Reflectometry.



Colorimeter P352

DT-265 Colorimeter is widely used in different industries such as electroplating oxide, plastic cement, printing, paint, weaving and dyeing. It measures the sample color data Lab, Lch, color difference ΔE and ΔLab according to CIE color space.

Professional Coating Thickness Tester



159 is a 2.4" TFT color LCD display coating thickness tester with temperature and humidity measurement. Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques. The measuring data is easily transfered to PC to edit and store. The LCD screen can auto-rotate with 0°, 90°, 180°, 270°.

Features

- Non-magnetic coatings(e.g. paint, zinc)on steel
- Insulating coatings(e.g. paint)on no-ferrous metals
- No-ferrous metals coatings on insulating substrates
- 2.4 TFT color LCD display
- Temperature , humidity and Dew point temperature measurement
- Auto-rotatable screen: 0°, 90°, 180°, 270°
- Stability test
- Continuous test
- Set auto power off time.
- SSPC mode
- Warning with Beeper and Backlight Flash ,3-Color LED indiction
- Menu operation system
- Working modes: DIRECT , GROUP and SSPC mode
- AVG, MAX, MIN, Stand and Deviation(S.DEV) Display
- Basic, One point and SSPC mode calibration
- Error indication
- USB interface
- 10 levels of LCD lighting adjustable
- Language selection: English ,German, Italian,French,Chinese,Japanese

Specifications

Sensor probe	F	N
Working principle	magnetic induction	Eddy current principle
Measuring range	0~2000um	0~2000um
Guaranteed tolerance (of reading)	(±2%+2)um	(±2%+2)um
Repeatability	(±1%+1)um	(±1%+1)um
Low range Precision	0.1um	0.1um
Minimum curvature radius	1.5mm	3mm
Diameter of Minimum area	7mm	5mm
Basic critical thickness	0.5mm	0.3mm
Temperature range	0 to 50°C/ 32 to 122°F	
Basic accuracy	±1°C/ 1.8°F	
Humidity range	0 to 100%	
Basic accuracy	±3%	

Size(HxWxD): 120mm x 60mm x 40mm
Weight: 120g
Accessories: 2x1.5V "AA" batteries, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.

EMC
EN: 61326



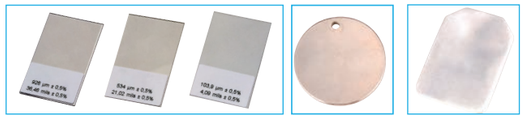
Model 159



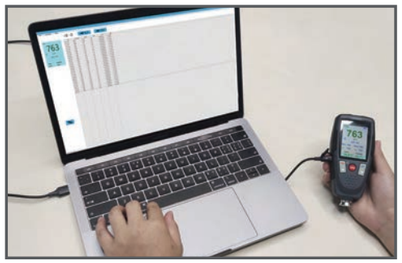
Passing indication



Failed indication



Precision Standard | Calibration Iron | Calibration Aluminum







Auto-rotatable screen: 0°, 90°, 180°, 270°



EMC
EN: 61326

4G

WI FI

Model 1583

This advanced thickness gauge offers exceptional versatility and precision, supporting various probe frequencies and coming pre-calibrated for accurate measurements—its thickness measurement range spans from 0.08 mm to 636 mm, though the actual range depends on the material and probe selected. It features both PE (Pulse-Echo) mode and EE (Echo-Echo) mode for measurements through coatings, along with a convenient calibration function to maintain reading accuracy, while selectable resolution (0.01 mm or 0.001 mm) caters to different precision needs. Equipped with a large-capacity built-in memory and SD card support for data backup, it also enables seamless connectivity via 4G and Wi-Fi, plus a built-in GPS for location tracking; operation is user-friendly and flexible, thanks to a touchscreen and physical keypad, and readings are clear on its high-resolution, full-view LCD screen.

Features

- Supports various probe frequencies; calibrated for precise measurements.
- Measures thickness from 0.08 mm to 636 mm, with actual range dependent on material and probe selection.
- Supports PE (Pulse-Echo) mode and EE (Echo-Echo) mode for measurements through coatings.
- Features a convenient calibration function for accurate readings.
- Selectable resolution: 0.01 mm or 0.001 mm.
- Built-in large-capacity memory with SD card support for data backup.
- High-resolution, full-view LCD screen for clear readings.
- Supports 4G, Wi-Fi, and other wireless communication options.
- Built-in GPS for location tracking.
- Touchscreen & physical keypad for flexible and user-friendly operation.





Specifications

Measurements	Thickness Range	0.080 mm ~ 635.00 mm (0.003 inch ~25 inch), the specific measurable thickness depends on the material, probe surface conditions, temperature and selected configuration.
	Sound velocity	range of materials 0.508 mm/μs ~13.998 mm/μs
	Accuracy	PE Mode (0.8mm-20mm) (1‰H±0.04mm) (20mm-300mm) ±(5‰H±0.05mm); (300mm-635mm) 1%H±0.05mm), H is the thickness of the object being measured. EE Mode ±0.1mm (2-50mm)
	Resolution	0.01mm or 0.001mm
	Probe frequency range	2.0 MHz ~ 20 MHz
Display	4-inch high-definition LCD, full viewing angle	
Power supply	USB type-C, Supports 18W fast charging	

Accessories: USB cable, CD, gift box with carrying case.
Size(HxWxD): 78mm x 28mm x 165mm
Weight: 248g

The Ultrasonic Thickness Gauge utilizes the pulse reflection principle of ultrasonic waves in a medium to measure the thickness of objects. It enables precise measurement of various plates and machined parts, as well as monitoring the thinning degree of pipes and pressure vessels in production equipment due to corrosion during use. Widely applicable in industries such as petroleum, chemical, metallurgy, shipbuilding, aviation, aerospace, and more.

Instrument Calibration

The instrument must be calibrated before use. Calibration is also required when changing probes, experiencing significant ambient temperature changes, or observing measurement deviations.
Calibration requires using the manufacturer-provided calibration block (thickness: 4mm, material: steel, sound velocity: 5920 m/s).

Features

- 2.4-inch TFT color screen.
- 2000mAh lithium battery.
- DC5V/1A charging via Type-C interface.
- 10,00 Data Storage Records.

Specifications

Measurements	Thickness Range	1-300mm (Steel)
	Sound Velocity Range	1000-9999 m/s
	Accuracy	+±0.5%H + 0.05mm (H is the thickness of the measured object)
	Resolution	0.1mm / 0.01mm
	Storage Capacity	10,00 Groups
Display	2.4-inch TFT Color Screen	
Power supply	DC5V 1A Type-C Interface; 2000mAh, 3.7V Lithium Battery	

Size(HxWxD): 180mm x 70mm x 40mm
Weight: 706g
Accessories: USB cable, gift box with carrying case.

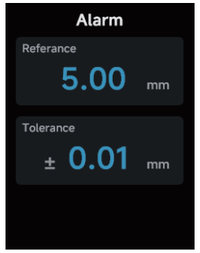


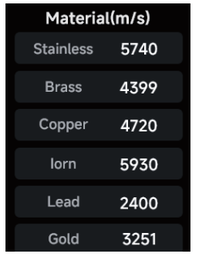
EMC
EN: 61326

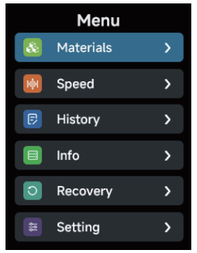
Model 158











DT-156/156H

Coating Thickness Tester

Dual Technology Features Automatic Selection of Magnetic.
Induction or Eddy Current Measurement Techniques



Model 156H

CE

EMC
EN: 61326

Features

	156	156H
Non-magnetic coatings(e.g. paint, zinc)on steel	*	*
Insulating coatings(e.g. paint)on no-ferrous metals	*	*
No-ferrous metals coatings on insulating substrates	*	*
Menu operation system	*	*
Two measuring modes: CONTINUE and SINGLE mode	*	
Two working modes: DIRECT and GROUP mode	*	*
Statistic Display: AVG, MAX, MIN, NO., S.DEV	*	
One point calibration, two points calibration and basic calibration easily	*	*
Memory for 400 readings(80 DIRECT and 320 GROUP readings)	*	
Memory for 1500 readings(30 GROUP readings)		*
Delete single readings and all group readings easily	*	*
High alarm and Low alarm for all working modes	*	
Low battery, error indication	*	*
USB interface for PC software	*	*
4 levels of battery indication		*
Error indication		*
Easily adapt to lighting conditions with 8 levels of backlight		*

Specifications

	156		156H	
Sensor probe	F	N	F	N
Working principle	Magnetic induction	Eddy current principle	magnetic induction	Eddy current principle
Measuring range	0~1250um	0~1250um	0~1350um	0~1350um
Guaranteed tolerance (of reading)	± (3%+1)um	± (3%+1.5)um	± (2.5%+2)um	± (2.5%+2)um
Repeatability	± (1%+1)um	± (1%+1)um	± (1%+1)um	± (1%+1)um
Low range Precision	0.1um	0.1um	0.1um	0.1um
Minimum curvature radius	1.5mm	3mm	1.5mm	3mm
Diameter of Minimum area	7mm	5mm	7mm	5mm
Basic critical thickness	0.5mm	0.3mm	0.5mm	0.3mm



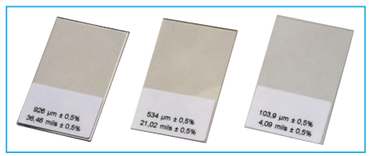
Model 156

CE

EMC
EN: 61326







Precision Standard



Calibration Iron Calibration Aluminum

Size(HxWxD): 113.5mm x 54mm x 27mm
Weight: 110g

Accessories:
Two “AAA” batteries, USB cable, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.

DT-157/157H

Coating Thickness Tester

Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques. The measuring data is easily transfered to PC for edit and storage.

157H provides flexible measurements with extention cable.

Features

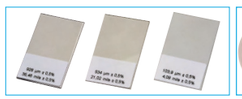
Non-magnetic coatings(e.g. paint, zinc)on steel
Insulating coatings(e.g. paint)on no-ferrous metals
No-ferrous metals coatings on insulating substrates
Menu operation system
Two working modes: DIRECT and GROUP mode
Statistic Display: AVG, MAX, MIN, NO., S.DEV
One point calibration, two points calibration and basic calibration easily
Delete single readings and all group readings easily
Low battery, error indication
Memory for 2500 readings(50 GROUP readings)
4 levels of battery indication
Error indication
Bluetooth interface
Easily adapt to lighting conditions with 8 levels of backlight

Specifications

Sensor probe	F	N
Working principle	magnetic induction	Eddy current principle
Measuring range	0~2000um	0~2000um
Guaranteed tolerance (of reading)	(+/- 2%+2)um	(+/- 2%+2)um
Repeatability	(+/- 1%+1)um	(+/- 1%+1)um
Low range Precision	0.1um	0.1um
Minimum curvature radius	1.5mm	3mm
Diameter of Minimum area	7mm	5mm
Basic critical thickness	0.5mm	0.3mm

Size(HxWxD): 120mm x 60mm x 40mm
Weight: 120g

Accessories: Two “AAA” batteries, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.



Precision Standard



Calibration Iron



Calibration Aluminum



CE

EMC
EN: 61326







Bluetooth

Made for iPod iPhone iPad

Model 157





Model 157H

iCTT software
for Coating Thickness Tester

Meterbox iCTT - In the worldwide, Meterbox iCTT is the first issue for the coating thickness tester to communicate with the smartphone by bluetooth. Friendly user interface, multifunction scene mode, standard reference data bring a new user experience and make the works relaxed.
Meterbox iCTT allows to read the measured real time data by bluetooth, the displayed table and chart can be recorded and analysed.The user can check the history data anytime and manage the measured readings easily by Meterbox iCTT.

High-frequency Ultrasonic Scanning Microscope

- Multi-gate setup, surface wave or bottom wave gate following
- Window zoom analysis, thickness analysis, sound velocity analysis, waveform comparison analysis.
- Various filtering algorithms, image enhancement, filtering, smoothing, sharpening and other conventional image processing functions



| A-scan

Multiple A waveform display windows can be generated to provide Fourier transform results

| B-scan

It can display the actual image of the longitudinal section of the sample and can display the inner structure of the sample. The actual warpage of the partial section

| C-scan

Multi-layer C scan, C scan can be sliced, and the slice thickness can be customized

IGBT-can realize 5-layer detection and analysis



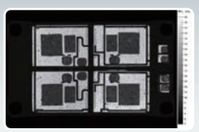
1st layer: base plate-DBC lower copper layer combination



2nd layer: DBC lower copper layer-DBC ceramic bonding



3rd layer: DBC ceramic-DBC upper copper layer combination



4th layer: DBC upper copper layer chip bonding



5th layer: chip-resin bonding

High frequency ultrasonic scanning microscope is a non-destructive testing equipment that uses high-frequency pulse echo to determine the degree of adhesion between structural adhesive and workpiece substrate based on the interaction mechanism. It can be determined based on imaging of the adhesive layer adhesion area for different workpieces, and is suitable for determining the adhesive layer adhesion between various metal substrates and ferromagnetic materials.

Instrument sensor

Pulse excitation voltage: 300V
System pass bandwidth: 5MHz-300MHz
Sampling depth:2048Byte
Sampling frequency: 1GHZ, 2GHz optional
Repetition frequency: high energy 5kHZ low energy 20 KHZ
High frequency focusing transducer: 50MHZ





Model OSC-3300

CE
EMC
EN: 61326

Features

Multi-axis motion control system, X-axis uses linear motor, Y-axis uses dual linear motor, Z-axis uses servo motor, grating closed-loop control, grating ruler resolution 1 um
Maximum running speed: 1000mm/S
Y-axis travel: 400mm, X-axis travel: 400mm, Z-axis travel: 100mm
Probe angle adjustment: manual AB axis
Ultrasonic probes, pulse receivers, acquisition cards, etc. all use imported accessories.

Specifications

Measure Performance	
Applicable structural material range	Metal substrate, ferromagnetic material
Applicable adhesive material range	Structural glue and other pure adhesives
Measurable adhesive layer thickness range	Minimum 50μm
Non-destructive strength grading	Imaging results of adhesive layer bonding area or adhesive layer bubble defects
Scan resolution	Supports coarse scanning better than 1mmx1mm, fine scanning better than 1μmxlμm
Measurement point resolution	Better than 50μmx50μm
Scan visualization	Support C-scan imaging
Scan structure requirements	Smooth and smooth surface (Three-axis high-precision motion system can be used)
Scannable sample specifications	Coverage 300X300X6 (unit mm)
Scan speed	Maximum 650mm/S
Coupling agent	Easy to remove without causing residue, contamination or damage
Software function	
Display mode	Support A-scan, B-scan, C-scan
C-scan	Multi-layer C scan, C scan can be sliced, and the slice thickness can be customized
B scan	It can display the actual image of the longitudinal section of the sample and the actual bonding condition of the internal section of the adhesive layer.
A scan	Multiple A waveform display windows can be generated to provide Fourier transform results
Image processing function	Contains conventional image processing functions such as image enhancement, filter smoothing, and sharpening; window scaling analysis, thickness analysis, sound velocity analysis, waveform comparison analysis, and multiple filtering algorithms
Image output format	Contains standard formats such as bmp and jpg
Report generation	After scanning, a scan analysis report is generated, which includes: the final scan picture, various scan parameter settings, the A-scan waveform of the sample, etc.
Storage	Automatic storage after scanning, no manual operation required
Quantitative measurement	X-Y length measurement, thickness and distance measurement; defect percentage calculation report: statistical analysis of the bonding area percentage of the adhesive layer can be performed based on the actual contour of the sample. After the sample is scanned, a list of bonding area dimensions can be provided and a report can be output. Click on any row in the list to Display the X/Y area of the adhesive layer bonding area image or defects on the scanned image to facilitate further analysis and positioning of the adhesive layer area and defects, etc.
Basic parameters	
Device power supply	220V
Equipment volume	The main body does not exceed 2000 x 1500 x 1500(mm)
Probe frequency	Not less than 50MHz
Maximum instrument operating frequency	The highest is not less than 200MHz

DT-1580

Professional Ultrasonic Thickness Gauge

The Professional Ultrasonic Thickness Gauge is an innovative instrument that signals a new era in ultrasonic thickness gaging. Ideally suited for almost every ultrasonic thickness application, this handheld thickness gage is fully compatible with a full line of dual and single element transducers. The versatile Professional Ultrasonic Thickness Gage can be used in applications ranging from wall thinning measurements of internally corroded pipes with dual element probes to very precise thickness measurements of thin or multilayer materials with single element transducers. The Professional Ultrasonic Thickness Gage comes standard with many powerful but easy-to-use measurement features and a host of application-specific software options. Its sealed case is designed to meet IP67 requirements to withstand the rigors of very wet or dusty environments. The color transflective VGA display provides superior readability from bright sunlight to complete darkness. It features a simple, ergonomic keypad that can be operated with the left or right hand for easy access to all functions.

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Model 1580

Features

Dual and single element transducer compatibility
Wide thickness range: 0.08 mm (0.003 in.) to 635 mm (25 in.) depending on material and transducer selection
Corrosion thickness gaging with dual element transducers
Internal Oxide/Scale software option
Standard resolution of 0.01 mm or 0.001 in. for all transducers
High Resolution software option of 0.001 mm or 0.0001 in. with single element transducers 2.25 MHz to 30 MHz
Multilayer software option for measurements of up to 4 layers simultaneously
High Penetration software option for attenuating materials such as fiberglass, rubber and thick casting
Thickness, Velocity, and time-of-flight measurements
Differential mode and Reduction Rate mode
10,000 reviewable readings per scan

Specifications

Measurements	Dual element transducer measurement mode	Time interval from a precision delay after the excitation pulse to the first echo
	Through paint measurement mode	Measurement of true metal and coating thicknesses with a single back-wall echo
	Through paint echo to ech measurement mode	Time interval between two successive back-wall echoes to eliminate paint or coating thickness
	Single element transducer measurement modes	Mode 1: Time interval between the excitation pulse and the first back-wall echo Mode 2: Time interval between the delay line echo and the first back-wall echo (with delay or immersion transducers) Mode 3: Time interval between successive back-wall echoes following the first interface echo after the excitation pulse (with delay line or immersion transducers) Oxide: optional Multilayer mode: optional
	Thickness range	0.080 mm to 635.00 mm (0.003 in. to 25.000 in.) depending on material, transducer surface conditions, temperature, and selected configuration
	Material velocity range	0.508 mm/µs to 13.998 mm/µs (0.020 in./µs to 0.551 in./µs)
	Resolution (selectable)	Low: 0.1 mm (0.01 in.) Standard: 0.01 mm (0.001 in.) High Resolution (optional): 0.001 mm (0.0001 in.)
	Transducer frequency range	Standard: 2.0 MHz to 30 MHz (-3 dB) High Penetration (optional): 0.50 MHz to 30 MHz (-3 dB)
Display	4" TFT LCD display	
Power supply	AC/DC adaptor, 24 V; lithium-ion battery 23.760 Wh; or 4 AA auxiliary batteries	



Size(HxWxD): 216mm x 100mm x 47mm
Weight: 706g

Accessories:
3.7V Li battery, USB cable, CD, gift box with carrying case.

CLT-1000

Cable Length Tester

CLT-1000 cable length tester features high accuracy and fast reflection, which finds distance to using Time Domain Reflectometry.

Features

High accuracy and fast reflection.
User friendly menu on screen
Operation for easy-to use
Automatic output impedance control
Auto-Zero and Auto Range
Large TFT Color LCD Display
Auto-Sensitivity allows for closer matching to a wide range of cables under test. Only V.O.P. Settings required
Measuring capability of the V.O.P. of a sample cable
99 internal memory locations store up to 99 traces for future analysis

Specifications

Minimum Range	pair cable or coaxial cable >5m
Maximum Range	Depends upon the V.O.P of the cables under test. 3.0km @V.O.P≤99.9%, 2.4km @V.O.P≤80.0%, 2.0km @V.O.P≤66.0%, 1.5km @V.O.P≤50.0%
Range Selection	Automatic range control
Accuracy	± [2% of reading +10cm] < 100m, ± [2% of reading +20cm] ≥100m
Resolution	0.01m < 100m, 0.1m≥100m
Impedance Selection	Automatic output impedance control
Cable Library	20 standard cable types
Memory Location	99 for custom cable types
Connector Type	BNC, RJ45

Size(HxWxD): 152mm x 61mm x 34mm **Weight:** 230g

Accessories: 2 x AA batteries, gift box with carrying case.

High accuracy and fast reflection.

3.0km @V.O.P≤99.9%

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Model CLT-1000

DT-265 Colorimeter

Colorimeter is widely used in different industries such as electroplating oxide, plastic cement, printing, paint, weaving and dyeing. It measures the sample color data Lab, Lch, color difference ΔE and ΔLab according to CIE color space.

Features

Free Color Management Software
Store 5 standard sample and 1000 reading records
Repeated Accuracy ΔE<0.1
Ergonomic Design
TFT true color 2.0 inch 320x240 LCD display
USB2.0 Full Speed interface
Bluetooth interface BLE4.0
Language selection English/Chinese

Specifications

Color Space	CIELAB CIELCH CIEXYZ RGB
Color Difference Formula	ΔE*Lab ΔE*Lch
Measurement Caliber	φ8mm
Illumination Condition	45°/diffused illumination
Light Source	D65/RGB LED
Sensor	RGB Silicon Photoelectric diode
Observer	CIE 10°Standard observer
Measurement Interval	1.5Sec
Battery	Li-ion battery, support USB charging, 1000 Measurements
Optional Accessories	Micro Bluetooth printer



Model 265

Size(HxWxD): 150mm x 52mm x 30mm
Weight: 300g

Accessories:
3.7V Li battery, USB cable, CD, gift box with carrying case.

VDV Wire Tester



VD-1000/1100
VDV Wire Tester

The VD-1000 Data Cable Tester maps out connections, verifies wiring, and displays faults on RJ45 terminated cables. A built-in tone generator can be used for tracing and locating cables in wiring closets and patch panels.

The VD-1100 Voice/Data/Video Cable Mapper analyzes wiring on phone, computer network and coax cables in one easy step. The large backlit LCD display maps out connections and describes wiring faults. The built-in tone generator and the included Video and Data remote identifiers can be used to quickly locate cables in wiring closets and patch panels.

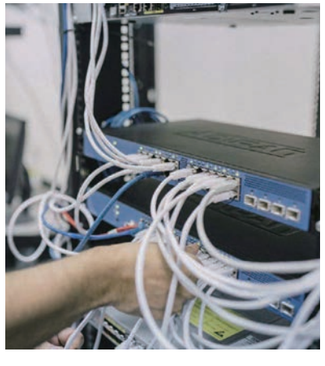
Features

	VD-1000	VD-1100
Cable tester tests voice (RJ11/12), data (RJ45) and video (coax F-connector) terminated cables with clearly defined results	RJ45	*
Location Remotes (5 each) map and ID multiple cable runs in a single step		*
Measure cable length up to 305m (1000 feet)	*	*
Test for Open, Short, Miswire or Split-Pair faults	*	*
Backlit LCD screen displays wiremap, and test results	*	*
Trace cables, wire pairs and individual conductor wires with multiple style tone generator	*	*
Includes voltage warning, shield detection, low battery indicator and a detachable remote	*	*
Auto Power-off feature to conserve battery life	*	*

Specifications

Cable Types	Shielded or Unshielded: Cat 7, Cat 7a, Cat 6a, Cat 6, Cat 5e, Cat 5, Cat 3, Coax
Maximum Cable Length	305m (1000 feet)
Minimum Cable Length for Split Pair Detection	0.5m (1.6ft)
Maximum Cable Resistance	100 ohms maximum DC
Maximum Voltage between any two pins without damage	60V DC or 55V AC
Maximum Coax Cable Resistance	100Ω DC
Humidity	10% to 90%, non-condensing
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

Size(HxWxD): 55mm x 28mm x 127mm (VDV-1000),
70mm x 38mm x 181mm (VDV-1100)
Weight: 126g (VV-1000), 386g (VDV-1100)
Accessories: 9V battery (VD-1100), 2x1.5V “AAA” batteries (VD-1000), Software, gift box with carrying case.







Model VD-1000

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Model VD-1100

VD-1550
VDV Wire Tester





Model VD-1550

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EN: 61326
EN: 61010-1

The VD-1550 Data/Video Cable Tester quickly verifies and locates wiring faults on RJ45 terminated network cables and coax cables with F connectors. The debugging function can identify split pairs, opens pairs, shorts, miswired connections on twisted pair cable.

Features

Cable tester tests data (RJ45) and video (coax F-connector) terminated cables with clearly defined results
Measure cable length up to 305m (1000 feet)
Test for Open, Short, Miswire or Split-Pair faults
Includes shield detection, low battery indicator and a detachable remote
Auto Power-off feature to conserve battery life

Specifications

Cable Types	Shielded or Unshielded: Cat 7, Cat 7a, Cat 6a, Cat 6, Cat 5e, Cat 5, Cat 3, Coax
Maximum Cable Length	305m (1000 feet)
Minimum Cable Length for Split Pair Detection	0.5m (1.6 feet)
Maximum Cable Resistance	100 ohms maximum DC
Maximum Voltage between any two pins without damage	60V DC or 55V AC
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity	10% to 90%, non-condensing

Size(HxWxD): 141mmx55mmx28mm **Weight:** 65g
Accessories: 2x1.5V AAA batteries, gift box.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

VD-200
Wire Tracker

VD-200 is a network tester that uses digital demodulation to achieve line finding. Compared with traditional analog line finders, it has the characteristics of low noise, strong signal, and high accuracy. The transmitter has two ports, RJ45 and RJ11. The RJ45 port can simultaneously enable the line finding function and port flashing function, which can help you quickly and accurately locate the target cable. The RJ11 port can help analyze the open circuit, short circuit, polarity, and other states of cables. Helping you quickly identify cable faults is of great assistance to cable production, installation, and maintenance.

Features

The port flashing function helps accurately locate the target cable
Stable digital line finding function
Capable of testing cable sequence, open circuit, short circuit, and polarity
NCV can measure the range of 40-1000VAC
Independent flashlight control
3.5mm headphone jack
Low power LED indicator
Powered by rechargeable lithium batteries
Automatic shutdown

Specifications

NCV measurement range	40-1000VAC
Polarity test range	DC:+5V~+70V or -70V~-5V
Searching distance	>1000m
Battery	3.7V lithium battery
Working temperature	-10°C~50°C
Storage temperature	-10°C~50°C
Working humidity	<80%
Storage humidity	<80%
Altitude	<2000m

Size(HxWxD): 134×56×29mm (VD-200A)
195×56×32 (VD-200B)
Weight: 265g
Accessories: 3.7V Li-battery, gift box with carrying case.



Model VD-200B



Model VD-200A

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EN: 61010-1





VD-1500 VDV Wire Tester

The VD-1500 Data Cable Tester for Data Cable verifies continuity and detects wiring faults on RJ45 terminated network cables. With proper use, this tester will provide many years of reliable service.

Features

Cable tester tests data (RJ45) terminated cables with clearly defined results
Test for Open, Short, Miswire faults
Test for Cross Over cable
Includes shield detection and a detachable remote



Specifications

Cable Types	Shielded or Unshielded: Cat 7, Cat 7a, Cat 6a, Cat 6, Cat 5e, Cat 5, Cat 3
Maximum Voltage between any two pins without damage	5V
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity	10% to 90%, non-condensing

Size(HxWxD): 141mm x 54mm x 28mm **Weight:** 122g
Accessories: 2x1.5V AAA batteries, gift box.

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Model VD-1500

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

2 in 1 Non-Contact Optical Fiber & AC Voltage Detector











FB-1310 can be used to remind users that there is dangerous 50-1000VAC voltage in the tested area, detect whether there is optical fiber signal in the optical fiber cable, and the built-in LED lamp can assist the inspection work in places with poor light, which is widely used in the daily industrial working environment.

Features

High sensitivity optical fiber signal detection
50V~1000V non-contact AC voltage detection
Built-in flashlight, compact
Detects optical power in SM and MM fiber (850 to 1700 nm)
No setup or interpretation – light and sound indicate signal
“Non-contact” detector reduces risk of contamination and damage
Suitable for ports and patch cords, SM, MM, UPC and APC
LED light feature indicates operation and battery status
LED indicator and buzzer indicator

Specifications

Wavelength Detection	850 nm to 1700 nm
Optical Power Detection Range	+3 dBm to -30 dBm
Non-contact AC voltage detection range	50-1000VAC, 50Hz/60Hz
Operating Temperature	0 to 50 ° C (32 to 122 ° F)

Size(HxWxD): 172mm x 26mm x 23mm **Weight:** 126g
Accessories: 2 * AAA batteries, gift box.

The VD-600 is an industry leading cable tester that runs a variety of cable testing procedures such as wiremap, timing tests (delay, skew), impedance measurement, Ethernet switch port blink, speaker pop, cable length, PoE volts, loaded battery test and 10/100/1000 indication.

Features

Cable tester tests voice (RJ11/12), data (RJ45) and video (coax F-connector) terminated cables with clearly defined results
Measure cable length up to 305m (1000 feet)
Test for Open, Short, Reversals or Split-Pair faults
Test for propagation delay, skew, ohms.
Test the length and distance to fault. Feet and meters selectable.
Adjustable and standard VOP settings for accurate length of all cables.
Test the Return Loss Quality (RLQ) of the cable
Backlit LCD screen displays wiremap, cable ID and test results
Port Blink. Light up lights the LED on the swit ch port.
Test the network speed(10/100/1000M) and cable pairs used
Test the PoE Volts and cable pairs used
Measure peak to peak volts of CCTV camera video signal.
100mA loaded test for 12V alarm and other backup batteries
Stores cable test reports in flash memory and export them to the computer through USB cable
Trace cables, wire pairs and individual conductor wires with multiple style tone generator
Location Remotes map and ID multiple cable runs in a single step
Includes voltage warning, shield detection, low battery indicator and a detachable remote
Auto Power-off feature to conserve battery life

Specifications

Maximum Voltage between any two pins without damage	100V DC or 70V AC
Cable Types	Shielded or Unshielded twisted pair (All cable categories) ; Coax; Telephone wire; Speaker and alarm wire
Maximum Cable Length	1000 feet (305m)
Minimum Cable Length for Split Pair Detection	1.6 feet (0.5m)
Maximum Cable Resistance	100 ohms maximum DC
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity	10% to 90%, non-condensing

Size(HxWxD): 141mm x 54mm x 28mm **Weight:** 420g
Accessories: 3x1.5V AA batteries, ift box with carrying case.



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Model VD-600

VD-20 CCTV Monitor Tester & Cable Tester

The VD-20 Coax Continuity tester can verify the continuity of the F-type coaxial cable, identify the corresponding coaxial cable through the color probe, and verify whether the coaxial cable has an open circuit or a short circuit with the two-color LEDs indicator.

Features

LED result indication
Portable accessories
Remote cable test
Low battery indicator

Specifications

Max.testing length	10,000ft (3km) maximum
Operating temperature	14°F to 122°F(-10°C to 50°C)
Storage temperature	-4°F to 140°F(-20°C to 60°C)
Battery	1*AAA Battery

Size(HxWxD): 131mmx32mmx20mm **Weight:** 98g
Accessories: 1x1.5V AAA battery, clamshell.

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Model VD-20

LA-1000
Network Auto-Tester

EMC
EN: 61326
EN: 60825-1

LA-1000 Network Auto-Tester is the quickest and most complete copper and fiber network connectivity tester. This rugged, handheld network tester speeds troubleshooting and reporting with a comprehensive one-button AutoTest . The AutoTest performs your required set of connectivity tests in 10 seconds, enabling you to quickly and accurately identify and solve network connectivity problems.



Model LA-1000

Features
Accurately identify network connectivity problems with the 10 second Auto Test
Connectivity test for twisted pair and fiber optic Ethernet links at 10, 100 and Gigabit rates
Verify twisted pair cable length and wiremap
Measure Power over Ethernet under a load with the PoE test
Discover the nearest switch and VLAN
Save connectivity test results on the network tester or in the cloud with zero-touch reporting
PoE (copper only) class
Link speed and duplex (actual and advertised)
RX pair, polarity and signal level
802.1x authentication
Nearest switch name, port, VLAN, model and IP address
DHCP Autonegotiation with subnet and DHCP server addresses
IPv4 address
Gateway and DNS server availability and responsiveness
Ping or TCP port connectivity tests to 10 user-defined targets

Size(HxWxD): 198mmx90mmx45mm **Weight:** 630g
Accessories: 4 x AA batteries, USB cable, gift box with carrying case.

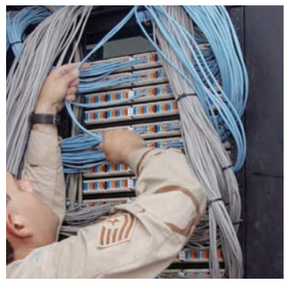
VD-100 VDV Wire Tester



Model VD-100

EMC
EN: 61326
EN: 60825-1





The VD-100 is a portable Voice-Data-Video wire tester. It tests and troubleshoots RJ11, RJ12, RJ45, and F-connector terminated cables. The built-in tone can be used to quickly locate cables in wiring closets and patch panels

Features
Voice: Tests RJ-11/12 6-wire Cables
Data: Tests RJ-45 8-wire Cables
Video: Tests F-Connector Coax Cables
Tone Generator
Cable Identification
Shield Detection
Voltage Warning
Low Battery Indication
Auto Power Off

Specifications	
Maximum Coax Cable Length	1000 feet (305m)
Minimum Cable Length for Split Pair Detection	1.6 feet (0.5m)
Maximum Coax Cable Resistance	100 ohms maximum DC
Maximum Voltage between any two pins without damage	60V DC or 55V AC
Humidity	10% to 90%, non-condensing
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)

Dimensions: 152mm x 61mm x 34mm **Weight:** 230g
Accessories: Two “AA” batteries, gift box with carrying case.

LA-8000
CCTV Monitor Tester & Cable Tester & Digital Multimeter

CCTV Monitor Tester & Cable Tester & Digital Multimeter provides multifunctions as PTZ control, Pan/tilts the P/T unit, zooms in/out the lens, adjusts the focus, aperture and sets and calls the preset position. Check open, short, cross reverse wire map for RJ45 and BNC, trace and locate RJ45 BNC and other metal cables.

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EN: 60825-1



Model LA-8000

Features
Large TFT color LCD display
Video signal test, NTSC/PAL automatic adaptation
Video Generating, The PAL/NTSC multi-system color bar video generator
Audio input testing and PTZ continuing rotate test.
PTZ control, Pan/tilts the P/T unit, zooms in/out the lens, adjusts the focus, aperture and sets and calls the preset position.
High precision automatic range digital multimeter
Check open, short, cross reverse wire map for RJ45 and BNC
Trace and locate RJ45 BNC and other metal cables.
DC12V power output, it can supply maximum 1A output current for camera
Measure the network cable, coaxial cable length
RS485 protocol test, 2400, 4800, 9600 baud rate selectable
Self-test function can automatically compensate the variation of the battery power, effect of environmental temperature change
Storage , retrieval and memory function, Flashlight function, Low battery indication
Large capacity rechargeable lithium battery

Specifications		
Video Signal Test	Signal Mode: PAL/NTSC automatically suitable
	Analog Video Input
	Video Signal Output
	Through the analysis of synchronous level signal attenuation amplitude
	Independently output 1 channel analog video signal
PTZ Control and Test	Communication: RS485
	Support more than 20 kinds of Protocols
	Baud Rate: 2400 4800 9600
Digital Multimeter Test	DC Voltage: Max 1000V Accuracy 0.1V
	AC Voltage: Max 750V Accuracy 0.1V
	DC Current: Max 10A Accuracy 0.1mA
	AC Current: Max 10A Accuracy 0.1mA
	Resistance: Max 40MΩ Accuracy 0.1Ω
	Diode Polarity Test
	Continuity Test
Cable Test	Check open,short,cross reverse wire map for RJ45 and BNC
	Trace and locate RJ45 BNC and other metal cables.
	Measure the RJ45 and BNC Cable length up to 620 meter, with 98% accuracy
	Measurement of power and attenuation in optical fiber transmission
Other Function	Test the RS485 Data sent from controlling device
	1 channel audio signal input to test whether the sound is OK
	Adjust the screen brightness, contrast, color saturation to adapt different working environment



Dimensions: 190mm x 150mm x 48mm
Weight: 230g
Accessories: rechargeable lithium battery, gift box with carrying case.

VD-10 Telephone lines tester

Is used to test the status of single or double telephone lines. It has two tri-color LEDs status indicators, which can indicate three statuses, namely, line correct,line reversed, and AC voltage.

Single and double line telephone line measurement
Tricolor LED indication

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Specifications	
Operating temperature	14°F to 122°F (-10°C to 50°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)

Size(HxWxD): 79mmx23mmx16mm **Weight:** 13.8g
Accessories: 1x1.5V AAA battery, clamshell.



Model VD-10

Professional Laser Distance Meter of Outdoor Application

These professional Laser Distance Meters are designed to provide a high accuracy to special users, one person distance measuring and estimating tool to measure remote and difficult reaching places. The “H” series enhanced the measurement ability of outdoor application. Shortcut keys for addition, subtraction, Pythagoras, area and volume calculation make measuring fast and very reliable. The last 20 measurements are also stored.

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- **strong** — *Strengthening measurement optimization to adapt to the harsh environment*
- **precision** — *High accuracy of ±1.5mm*
- **fast** — *Fast measurement of 0.5 seconds*
- **spirit** — *1mm measuring perception*
- **Distance** — *Measuring Range up 110m(360.8ft)*



Model LDM-100H



Model LDM-110H | Model LDM-100H | Model LDM-80H | Model LDM-60H | Model LDM-40H

Features

	LDM-40H	LDM-50H/ LDM-100	LDM-60H	LDM-70H	LDM-80H	LDM-100H	LDM-110H	LDM-35	LDM-65
Measuring Range	40m(131.2ft)	50m(164.2ft)	60m(196.8ft)	70m(229.6ft)	80m(262.4ft)	100m(328.0ft)	110m(360.8ft)	35m(114ft)	65m(213.2ft)
Area, Volume Calculations	*	*	*	*	*	*	*	*	*
Indirect measurement using Pythagoras	*	*	*	*	*	*	*	*	*
Addition/Subtraction	*	*	*	*	*	*	*	*	*
Continuous Measurement	*	*	*	*	*	*	*	*	*
Min/Max Distance Tracking	*	*	*	*	*	*	*	*	*
Display illumination and multi-line display.	*	*	*	*	*	*	*	*	*
Buzzer indication	*	*	*	*	*	*	*	*	*
The LDM-H series enhanced the measurement ability of outdoor application	*	*	*	*	*	*	*		
±1.5mm High Accuracy	*	*	*	*	*	*	*		

Specifications

	LDM-40H	LDM-50H/ LDM-100	LDM-60H	LDM-70H	LDM-80H	LDM-100H	LDM-110H	LDM-35	LDM-65
Measuring Range	0.05 to 40m/ 0.15ft to 131.2ft	0.05 to 50m/ 0.15ft to 164.2ft	0.05 to 60m/ 0.15ft to 196.8ft	0.05 to 70m/ 0.15ft to 229.6ft	0.05 to 80m/ 0.15ft to 262.4ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 110m/ 0.15ft to 360.8ft	0.05 to 35m/ 0.15ft to 114ft	0.05 to 65m/ 0.15ft to 213.2ft
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06 in)								
Smallest unit displayed	1mm								
Measuring units	m,in,ft								
Laser Class	Class II 635 nm, < 1mW								
Dust Protect/Splash proof	IP 54								
History measurement records	20								
Keyboard Type	Super Soft-Touch (Long life)								
Operating Temperature	-10°C to 50°C(14°F to 122°F)								
Storage Temperature	-20°C to 60°C(-4°F to 140°F)								
Battery Life	Up to 4,000 measurements								
Batteries	Type AAA 2 x 1.5V								
Auto laser switch-off	after 0.5 min								
Auto instrument switch-off	after 3 min								

Size(HxWxD): 115mm x 48mm x 28mm
Weight: 135g

Accessories:
2 x 1.5V AAA batteries and gift box with carrying case.

LDM-50R/80G/100G/120G

Professional Laser Distance Meter



The LDM-80G/100G/120G features a highly durable design and green laser spot with a built-in integrated inclinometer. IP 65 protection certified design and shock-absorbing rubber sleeve, this tool prevents the ingress of water jets and dust. Intuitive operation thanks to the intelligent user interface and its many useful functions, high-end color display, convenient help functions and dedicated shortcut keys to suit personal preferences.

The LDM-50R features a highly durable design and Red laser spot.



Model LDM-50G



EMC
EN: 61326
EN: 60825-1

Specifications

	LDM-50R	LDM-80G	LDM-100G	LDM-120G
Measuring Range	0.05 to 50m/ 0.15ft to 146.2ft	0.05 to 80m/ 0.15ft to 262.4ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 120m/ 0.15ft to 393.7ft
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06 in)			
Smallest unit displayed	1mm			
Measuring units	m,in,ft			
Indirect distance measurement and level	0°–360° (4 x 90°), accuracy (typical) ± 0.2°			
Grade measurement	0°–360° (4 x 90°), accuracy (typical) ± 0.2°			
Laser Class	Class II 520 nm, < 1mW			
Dust Protect/Splash proof	IP 65			
History measurement records	20			
Keyboard Type	Super Soft-Touch (Long life)			
Operating Temperature	-10°C to 50°C(14°F to 122°F)			
Storage Temperature	-20°C to 60°C(-4°F to 140°F)			
Battery Life	Up to 4,000 measurements			
Batteries	Type AAA 2 x 1.5V			
Auto laser switch-off	after 0.5 min			
Auto instrument switch-off	after 3 min			

Size(HxWxD): 120mm x 53mm x 29mm **Weight:** 210g
Accessories: 2 x 1.5V “AAA” batteries and gift box with carrying case.

LDM-20/20S/25 Mini Laser Distance Meter



Model LDM-20S



Model iLDM-20



Model LDM-25

EMC
EN: 61326
EN: 60825-1

Bluetooth

Made for iPod iPhone iPad



Touch screen

Features

Unit selectable (m, ft, in)
Area, Volume Calculations
Continuous measurement
Min/Max Distance Tracking
Bluetooth 4.0 with APP support (iLDM only)
Reference level selectable
Water and dust proof
Display illumination and 3-line display
Buzzer indication
1.4" TFT with touch screen (LDM-25 only)

Specifications

	LDM-20	LDM-20S	LDM-25
Housing	Plastic	Metal	Plastic
Batteries	2 x 1.5V "AAA"	Li-ion battery	2 x 1.5V "AAA "
Display	2 Lines VA LCD	3 Lines STN	1.4" TFT Touch screen
Measuring Range	0.05 to 20m(0.15ft to 65ft)		
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06in)		
Smallest unit displayed	1mm		
History measurement records	20		
Measuring units	m,in,ft		
Laser Class	Class II 650 nm, < 1mW		
Dust Protect/Splash proof	IP 54		
Operating Temperature	-10°C to 50°C(14°F to 122°F)		
Storage Temperature	-20°C to 70°C(-4°F to 158°F)		
Battery Life	Up to 5,000 measurements		
Auto. laser switch-off	after 0.5 min		
Auto instrument switch-off	after 3 min		

Size(HxWxD): 100mm x 30mm x 22mm **Weight:** 100g
80mm x 30mm x 22mm(LDM-20S)
Accessories: 2 x 1.5V “AAA” batteries and gift box with carrying case.





iLDM-30/50/LDM-30/50

Pen-type Laser Distance Meter

iLDM-30/50/LDM-30/50 Pen-type Laser Distance Meters are designed to use easily as a high-precision measurement tool. New compact design fits in every pocket and safely in places where access difficultly.

Features

	iLDM-30	iLDM-50	LDM-30	LDM-50
Bluetooth 4.0 with APP support	*	*		
Built-in level vial		*		*
Unit selectable (m, ft, in)	*	*	*	*
Area, Volume Calculations	*	*	*	*
Continuous measurement	*	*	*	*
Min/Max distance tracking	*	*	*	*
Reference level selectable	*	*	*	*
Water and dust proof	*	*	*	*
Display illumination and 3-line display.	*	*	*	*
Buzzer indication	*	*	*	*





Model LDM-50

EMC
EN: 61326
EN: 60825-1

Specifications

iLDM-30/LDM-30 Measuring Range	0.05 to 30m(0.15ft to 98ft)
iLDM-50/LDM-50 Measuring Range	0.05 to 50m(0.15ft to 164ft)
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06in)
Smallest unit displayed	1mm
History measurement records	20
Measuring units	m,in,ft
Laser Class	Class II 635 nm, < 1mW
Dust Protect/Splash proof	IP 54
Operating Temperature	-10°C to 50°C(14°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)
Battery Life	Up to 5,000 measurements
Batteries	Type AAA 2 x 1.5V
Auto laser switch-off	after 0.5 min
Auto instrument switch-off	after 3 min

Size(HxWxD): 136mm x 33mm x 26mm
Weight: 130g
Accessories:
2 x 1.5V “AAA” batteries and gift box with carrying case.

Meterbox pro Software

for Laser Distance Meter

Bluetooth

Amazing features and built-in apps.

The Meterbox-iLDM software can support our Laser Distance Meter product transfering the measured data to the customer's smartphone. Customers can easily use the software to check, transfer or edit the data with table and chart. They also have powerful cloud functions such as computing and storage service.

Meterbox pro



More Applications...



Model iLDM-30

LDM-40B/60B/80B/100B/120B

Professional Laser Distance Meter



Model LDM-40B Model LDM-60B Model LDM-80B Model LDM-100B Model LDM-120B

Features

	LDM-40B	LDM-60B	LDM-80B	LDM-100B	LDM-120B
Measuring Range	40m(131.2ft)	60m(196.8ft)	80m(262.4ft)	100m(328.0ft)	120m(393.7ft)
Area, Volume Calculations	*	*	*	*	*
Indirect measurement using Pythagoras	*	*	*	*	*
Addition/Subtraction	*	*	*	*	*
Continuous Measurement	*	*	*	*	*
Min/Max Distance Tracking	*	*	*	*	*
Display illumination and multi-line display.	*	*	*	*	*
Buzzer indication	*	*	*	*	*
±1.5mm High Accuracy	*	*	*	*	*
The LDM-B series enhanced the measurement ability of outdoor application(with 2x1.5V AA battery)					
The LDM-C series are with 3.7V Li battery, the LDM-I series are with Bluetooth.					

Specifications

	LDM-40B	LDM-60B	LDM-80B	LDM-100B	LDM-120B
Measuring Range	0.05 to 40m/ 0.15ft to 131.2ft	0.05 to 60m/ 0.15ft to 196.8ft	0.05 to 80m/ 0.15ft to 262.4ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 120m/ 0.15ft to 393.7ft
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06 in)				
Smallest unit displayed	1mm				
Measuring units	m,in,ft				
Laser Class	Class II 635 nm, < 1mW				
Dust Protect/Splash proof	IP 54				
History measurement records	20				
Keyboard Type	Super Soft-Touch (Long life)				
Operating Temperature	-10°C to 50°C(14°F to 122°F)				
Storage Temperature	-20°C to 60°C(-4°F to 140°F)				
Battery Life	Up to 4,000 measurements				
Batteries	Type AAA 2 x 1.5V				
Auto laser switch-off	after 0.5 min				
Auto instrument switch-off	after 3 min				

Size(HxWxD): 115mm x 48mm x 28mm
Weight: 135g

Accessories:
2 x 1.5V AAA batteries and gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

LDM-300/350/380

Professional Laser Distance Meter



EMC
EN: 61326
EN: 60825-1

Meterbox pro

Bluetooth

Features

	LDM-300	LDM-350	LDM-380
3.5" TFT Color LCD display	*	*	*
Built-in camera			*
Images(JPEG) & Video(3GP)			*
MicroSD memory card & datalogger function			*
Electrical compass		*	*
Angle measurement using tilt sensor(± 90°)		*	*
Area, Volume Calculations	*	*	*
Indirect measurement using Pythagoras	*	*	*
Addition/Subtraction	*	*	*
Continuous Measurement	*	*	*
Min/Max Distance Tracking	*	*	*
Timer (self-triggering)	*	*	*
Laser continuous	*	*	*
Stake out function	*	*	*
Display illumination and multi-line display.	*	*	*
Buzzer indication	*	*	*
Multifunctional end pieces	*	*	*
Bluetooth interface	*	*	*
Meterbox iLDM & cloud service	*	*	*

Specifications

	LDM-300	LDM-350	LDM-380
Measuring Range	0.05 to 100 m(0.15 ft to 328 ft)	0.05 to 150m(0.15ft to 492ft)	0.05 to 200m(0.15ft to 656ft)
Measuring accuracy(2σ)	Typically: ±1.5 mm(± 0.06 in)	Typically: ±1.5mm(±0.06in)	Typically: ±1.5 mm(± 0.06 in)
Smallest unit displayed	1mm	1mm	1mm
Measuring units	m,in,ft	m,in,ft	m,in,ft
Laser Class	Class II 635 nm, < 1mW	Class II 635 nm, < 1mW	Class II 635nm,<1mW
Bluetooth distance	10m	10m	10m
Camera pixels			5Mega
Compass Measuring range		0-360°	0-360°
Compass Measuring accuracy		± 2°	± 2°
Tilt sensor Measuring range	± 90°	± 90°	± 90°
Tilt sensor Measuring accuracy	± 0.5°	± 0.5°	± 0.5°
Dust Protect/Splash proof	IP 54	IP 54	IP 54
History measurement records	99	99	99
Keyboard Type	Super Soft-Touch (Long life)	Super Soft-Touch (Long life)	Soft-Touch Keypad
Operating Temperature	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)
Battery	3x 1.5V "AAA"	3x 1.5V "AAA"	Li-ion Battery
Battery Life	Up to 8,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements
Auto laser switch-off	after 0.5 min	after 0.5 min	after 0.5 min
Auto Power off	after 3 min	after 3 min	after 3 min



Size(HxWxD): 142mm x 62mm x 32mm
Weight: 191g



Model LDM-300



Model LDM-380

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

Professional Laser Distance Meter of Outdoor Application

iLDM-150 with Meterbox-iLDM Pro Software supports our laser distance meter transfering the measured data to the customer's smartphone.

Four application mode:
- family decorating
- Construction and acceptance
- Traffic survey
- Normal distance measuring

Software Functions:
- Distance measuring data transferred to Cloud
- Edit, analyze & Store the distance data
- Connecting with iPhone/iPod/iPad/Android Phone/ Android Pad
- Sharing the data with others by E-mail, facebook & twitter
- Trend capture
- Cloud backup

Strong — Strengthening measurement optimization to adapt to the harsh environment

Precision — High accuracy of ±1.5mm

Fast — Fast measurement of 0.5 seconds

Spirit — 1mm measuring perception

Distance — Measuring Range up to 160m(524.9ft)



CE
EMC
EN: 61326
EN: 60825-1

Backlight · Accurate

Bluetooth

CE
EMC
EN: 61326
EN: 60825-1

Worldwide Patent:
PCT/CN2012/081593

These professional Laser Distance Meters are designed to give special users a high accuracy, one person distance measuring and estimating tool to measure remote and difficult reaching places. The LDM-H series enhanced the measurement ability of outdoor application. Shortcut keys for addition, subtraction, Pythagoras, area and volume calculation make measuring fast and very reliable. The last 20 measurements are also stored.

Features

Area, Volume Calculations
Indirect measurement using Pythagoras
Indirect measurement using tilt sensor
Angle measurement using tilt sensor(± 90°)
Addition/Subtraction
Continuous Measurement & Timer (self-triggering)
Min/Max Distance Tracking
Laser continuous
Stake out function
Display illumination and multi-line display
Multifunctional endpiece
Tripod thread
Bluetooth with APP support
Meterbox iLDM & cloud service



Model iLDM-160H



Model iLDM-150H



Model iLDM-120H



Model iLDM-100H

Specifications

	iLDM-150	iLDM-100H	iLDM-120H	iLDM-150H	iLDM-160H
Measuring Range	0.05 to 70 m/ 0.15 ft to 229 ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 120m/ 0.15ft to 393.7ft	0.05 to 150m/ 0.15ft to 492.1ft	0.05 to 160m/ 0.15ft to 524.9ft
Basic Specifications					
Measuring accuracy(2σ): Typically: ±1.5 mm(± 0.06 in);			Smallest unit displayed: 1mm		
Measuring units: m,in,ft			Laser Class: Class II 635 nm < 1mW		
Tilt sensor Measuring range: ± 65°			Range of bluetooth: 10m		
Dust Protect/Splash proof: IP 54			History measurement records: 99		
Keyboard Type: Super Soft-Touch (Long life)			Battery Life: Up to 8,000 measurements		
Auto laser switch-off: after 30 seconds			Auto instrument switch-off: after 3 min		

Size(HxWxD): 135mm x 58mm x 33mm
Weight: 203g

Accessories:
2 x 1.5V AA batteries and gift box with carrying case.

LDM-600/1000/1200/1500 Laser Range Telescope

Specifications

	LDM-600	LDM-1000	LDM-1200	LDM-1500
Measuring Range	3 to 600 m	3 to 1000m	3 to 1200m	3 to 1500m
Measuring accuracy(2σ)	Typically: ±1m			
Measuring units	m,ft			
Laser Class	Class I			
Smallest unit displayed	1m			
Dust Protect/Splash proof	IP 54			
Operating Temperature	-10°C to 50°C(14°F to 122°F)			
Storage Temperature	-20°C to 60°C(-4°F to 140°F)			
Battery Life	Up to 3000 measurements			
Batteries	Li-on			
Auto laser switch-off	after 30 seconds			
Auto power off	after 3 min			

Size(HxWxD): 115mm x 75mm x 40mm
Weight: 203g
Accessories: 2 x 1.5V AA batteries and gift box with carrying case.

CE
EMC
EN: 61326
EN: 60825-1



LDM-180/200/220

Professional Laser Distance Meter



LDM-180/200 professional Laser Distance Meters are integrated with 2.4" color TFT LCD display, and the powerful embedded operating system, The series offer Bluetooth interface with computer or mobile phone connection, you can use meterbox software provided by CEM to interact with these range finders. The user can be back with measured data and recorded images(JPEG) or video(3GP) in office to analyze the measured readings under the support of the software.

Meterbox iLDM software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.

EMC
EN: 61326
EN: 60825-1

Bluetooth

Made for iPod iPhone iPad



Model LDM-180



Model LDM-200

Features	LDM-180	LDM-200	LDM-220
2.4" TFT 320x240 pixels color LCD display		*	
3.0" TFT 240x400 pixels color LCD display			*
4x Digital Zoom, Build-in Telescope			*
Electrical compass		*	*
Angle measurement using tilt sensor(± 65°)		*	*
Area, Volume Calculations	*	*	*
Indirect measurement using Pythagoras	*	*	*
Addition/Subtraction	*	*	*
Continuous Measurement	*	*	*
Min/Max Distance Tracking	*	*	*
Timer (self-triggering)	*	*	*
Laser continuous	*	*	*
Stake out function	*	*	*
Display illumination and multi-line display.	*	*	*
Buzzer indication	*	*	*
Multifunctional end pieces	*	*	*
Bluetooth interface	*	*	*
Meterbox iLDM & cloud service	*	*	*



Model LDM-220



Specifications	LDM-180	LDM-200	LDM-220
Measuring Range	0.05 to 80 m/ 0.15 ft to 229 ft	0.05 to 100m/ 0.15ft to 328ft	0.05 to 120m/ 0.15ft to 328ft
Measuring accuracy(2σ)	Typically: ±1.5 mm(± 0.06 in)	Typically: ±1.5mm(±0.06in)	Typically: ±1.5 mm(± 0.06 in)
Smallest unit displayed	1mm	1mm	1mm
Measuring units	m,in,ft	m,in,ft	m,in,ft
Laser Class	Class II 635 nm, < 1mW	Class II 635 nm, < 1mW	Class II 635nm,<1mW
Range of bluetooth	10m	10m	10m
Camera pixels			2Mega
Compass Measuring range		0-360°	0-360°
Compass Measuring accuracy		± 2°	± 2°
Tilt sensor Measuring range	± 65°	± 65°	± 65°
Tilt sensor Measuring accuracy		± 0.5°	± 0.5°
Dust Protect/Splash proof	IP 54	IP 54	IP 54
History measurement records	50	100	100
Keyboard Type	Super Soft-Touch (Long life)	Super Soft-Touch (Long life)	Soft-Touch Keypad
Operating Temperature	-10°C to 50°C/ 14°F to 122°F	-10°C to 50°C/ 14°F to 122°F	-10°C to 50°C/ 14°F to 122°F)
Battery Life	Up to 8,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements
Auto laser switch-off	after 0.5 min	after 0.5 min	after 0.5 min
Auto instrument switch-off	after 3 min	after 3 min	after 3 min

Size(HxWxD): 140mm x 55mm x 35mm
Weight: 145g

Accessories:
2 x 1.5V AA batteries and gift box with carrying case.

Meterbox pro Software

for Laser Distance Meter
Amazing features and built-in apps.

Meterbox Pro

The Meterbox-iLDM software can support our Laser Distance Meter product transfering the measured data to the customer's smartphone. Customers can easily use the softwear to check, transfer or edit the data with table and chart.

They also have powerful cloud functions such as computing and storage service.

LDM-65S/80S/280H/iLDM-65S/80S/280H

Professional Laser Distance Meter

Accurate measurement up to 80m (LDM-80S/iLDM-80S)

These professional Laser Distance Meters are designed to provide special users a high accuracy, one person distance measuring and estimating tool to measure remote and difficult to reach. The compact and handheld design for indoor applications. Shortcut keys for addition, subtraction, Pythagoras, area and volume calculation make measuring fast and very reliable. The last 50 measurements are also stored.

The iLDM series offer Bluetooth interface with computer or mobile phone connection, you can use meterbox software provided by CEM to interact with these range finders.

EMC
EN: 61326
EN: 60825-1



Model LDM-65S



Model iLDM-80S

Features	LDM-280H	LDM-65S	LDM-80S
Area, Volume Calculations	*	*	*
Indirect measurement using Pythagoras	*	*	*
Angle measurement using tilt sensor(± 90°)		*	*
Addition/Subtraction	*	*	*
Continuous Measurement	*	*	*
Min/Max Distance Tracking	*	*	*
Display illumination and 4-line display.	*	*	*
Buzzer indication	*	*	*
Bluetooth interface	iLDM-280H	iLDM-65S	iLDM-80S



Simple to operate
Due to the shortcut keys addition and subtraction, as well as surface and volume calculations could be easier.

Bluetooth



Model LDM-280H

Specifications	LDM-280H/ iLDM-280H	LDM-65S/iLDM-65S	LDM-80S/iLDM-80S
Measuring Range	0.05 to 80m(0.15ft to 262ft)	0.05 to 65m(0.15ft to 213ft)	0.05 to 80m(0.15ft to 262ft)
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06in)	Typically: ±1.5 mm(± 0.06 in)	Typically: ±1.5 mm(± 0.06 in)
Smallest unit displayed	1mm	1mm	1mm
Measuring units	m,in,ft	m,in,ft	m,in,ft
Laser Class	Class II 635 nm, < 1mW	Class II 635nm,<1mW	Class II 635nm,<1mW
Dust Protect/Splash proof	IP 54	IP 54	IP 54
History measurement records	99	99	99
Tilt sensor Measuring range		± 65°	± 65°
Tilt sensor Measuring accuracy		± 0.5°	± 0.5°
Keyboard Type	Soft-Touch Keypad	Soft-Touch Keypad	Soft-Touch Keypad
Operating Temperature	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)
Battery Life	Up to 4,000 measurements	Up to 4,000 measurements	Up to 4,000 measurements
Batteries	Type AAA 2 x 1.5V	Type AAA 2 x 1.5V	Type AAA 2 x 1.5V
Auto laser switch-off	after 0.5 min	after 0.5 min	after 0.5 min
Auto power off	after 3 min	after 3 min	after 3 min

Size(HxWxD): 115mm x 54mm x 32mm
Weight: 145g
Accessories:
2 x 1.5V AAA batteries and gift box with carrying case.

LA-101
3 in 1 Stud/Metal/AC Voltage Finder



EMC
EN: 61326

Model LA-101

LA-101 uses electronic signals to locate the edges of studs, joists or live AC wires through drywall or other common building materials. Depth detection selected by activation button for 1/2 inch, 1 inch and 1½ inch. Once LA-101 displays red LED and sounds an audible tone.

Specifications

	Range
Wood or Metal Studs	0～ 1½ " (38mm)
Live AC Wires	0～ 2 " (50mm)
Wood	±1/8 " （3mm）
Metal	±1/4 " （6mm）
Operating Temp	0℃～40℃
Storage temperature	-20℃～60℃
Power Source	9V

Size(HxWxD): 145mm x 60mm x 28mm
Weight: 150g
Accessories: 9V battery, gift box with carrying case.

LA-1010 3 in 1 Stud/Metal/AC Voltage Finder

Features and Benefits

- Laser leveling, layout and stud locating on vertical and horizontal surfaces
- wood, metal and live wire detection-detects wood up to 3/4″ depth
- 180 degree pivoting laser plane with level and plumb vials
- 20’ laser line projection onto work surface with 90 degree squaring
- Two self contained hang pins to mount unit to work surface (vertical or horizontal)
- LCD sensing and mode display with new target graphics
- LED display with continuous live wire detection
- Thumb dial adjustable feet for leveling the laser
- Easy keypad operation
- Ergonomically designed for comfort and grip
- Requires 9V battery

Size(HxWxD): 180mm x 67mm x 38mm
Weight: 180g
Accessories: 9V battery, gift box with carrying case.



EMC
EN: 61326



Model LA-1010

DM-01 Ultrasonic Distance Meter



Model DM-01

EMC
EN: 61326

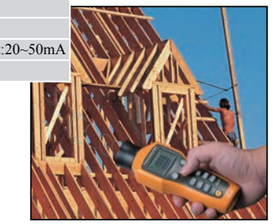
DM-01 Ultrasonic Distance Meter with Laser Target Pointer. The device has 5 memory units. Those data will be still stored even if power off.

- Measures in imperial/metric
- Start point selection
- Data store/recall
- Conputes areas and volumes
- 5 groups of value in memory
- Sum of lengths
- Auto/manual shut-off
- LCD backlight
- Beeps for wrong reading finding and reading confirmation
- Laser pointer

Specifications

Measuring range	0.5 ~ 16m (1.64 ~ 52.48 feet)
Accuracy	+/-0.4 within 6m (20 feet) and +/-0.8 above 6m
Conditions	0 ~ 40ºC, 45% ~ 90%RH
Power supply	9V battery
Current consumption	Stand-by current:<=2 Ua; Operating current:20~50mA
Auto shut-off	120 seconds

Size(HxWxD): 154mm x 61mm x 46mm
Weight: 190g
Accessories: 9V battery, gift box with carrying case.



DAG-10/20
Digital Angle Gauge and Level

DAG-10 is a digital angle gauge and level . It can measure or set angles, check relative angles, or can be used as a digital level.
The DAG-20 is a digital angle gauge that detects the degree of offset from true level. It can measure from 0-180°. When laid flat, it will function as a bullseye level.

- The measuring surface has a built-in magnet for easy attachment to the workpiece, easy to measure.
- Rapid and stable reading, which is convenient for use with other measuring tools to expand the measurement range.
- Relative/absolute measurement can be exchanged at any position, and reading conversion of angle and tilt is supported.

Features

	DAG-10	DAG-20
Automatic switching between two modes		*
Alarm setup and indication		*
Menu selection		*
Set relative angle, Data hold	*	*
Automatic display angle reversal	*	*
Range switching, Strong magnetic base	*	*
Digital LCD display with backlight, Auto power off	*	*

Specifications

Measurement Range	DAG-10	DAG-20
	Dual: 0-90° and 0-180°	Dual: 0-90° and 0-180°
Accuracy	±0.1° (0°~1°, 89°~91°, 179°~180°)	Vertical and Horizontal Orientation: ±0.2°
	±0.2° at all other other angles	Bullseye Orientation: ±0.5°
Resolution	0.1°	
Operating/Storage Temperature	0° to 50°C (32° to 122°F)	
Operating/Storage Humidity	<85% relative humidity	

Size(HxWxD): 120mm x 61mm x 35mm (DAG-20), 68mm x 60mm x38mm (DAG-10)
Weight: 226g
Accessories: 2×“AA” 1.5V batteries (DAG-20), 2×“AAA” 1.5V batteries (DAG-10), gift box with carrying case.

EMC
EN: 61326



Model DAG-10



Model DAG-20





GPS-200 GPS Land Meter

Features

- Large TFT color LCD display
- Any shape of earth square and girth can be measured (Included upland and slope) .
- The length or distance between any two points can be measured
- Measuring Mode: Automatic and Manual
- Measuring data , graphical traces, total amount of calculation can be showed on the screen.
- Set up unit price according to the relative measuring units.
- Keep and records 99 historical data and graphical traces. You can scan, find and delete them
- Integrated cash detector, flashlight and backlight

Specifications

Square Measurement	Range	0-999999.99 ㎡
	Measurement Error	1% - 5%
	Display Unit	mu/ sq.m/ ha./ sq.km
Length Measurement	Range	0-999999.99 m
	Measurement Error	1-3m
	Units	meter/ kilometer
Power supply	9V battery	
Continuous working time	8-10 hours	

Dimensions: 160mm x 70mm x 38mm **Weight:** 230g
Accessories: 9V battery, gift box with carrying case.

The GPS Land Meter is developed by GPS positioning system, high-precision algorithm and other advanced technology. Any earth square and girth can be measured outdoor by GPS Land Meter

EMC
EN: 61326
EN: 60825-1



High Definition Video Borescope



Meterbox iScope

Model BS-183W

Specifications (BS-183W)

Camera diameter	6mm(0.217")
Camera Pixels	1280x720
Max number of frames(FPS)	30fps/s
Gooseneck length	1m(39")
Viewing distance	5cm
Fov	55°
Operator's lever control	360° manual shake of head
Shaking head locking	Locking, Slow Speed
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n
Wi-Fi Support system	iOS , Android
Lighting type	6 LED with adjustable brightness
Working voltage	Li Battery 3.7V/1400mA
Wired connections	Yes



Inspection Camera with Wireless Handset & 6mm Semi-Rigid Cable, Articulating (360°) Probe (1m)



BS-380/380C/385
High Definition Video Borescope with InfraRed Thermal Imager

High definition 8" Color TFT LCD, supporting 4MP photo/full HD video, time/date display and multi-languages.Video and images can also be transferred to your PC via the SD Card or USB cable(included). Modern design housing with waterproof (IP67) flexible gooseneck retains configured shape.



Features:

- 8" color LCD TFT with high definition 800x600 resolution
- Compact, high-resolution water-proof camera probe
- Camera head with four built-in bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- SD memory card is included to store more than 14,600 images
- Video recording (up to 2 hours) with voice annotation
- AV output for viewing images and video directly on a monitor
- Video and images can be transferred to PC via the SD card or USB output

System Specifications

	BS-380	BS-380C	BS-385
LCD screen type	8" 800x600 TFT LCD + TP		
Digital zoom	5.0x		
Image resolution	2592x1944 (Postposition) / 1280x720		1920x1080/1280x720
Video Resolution	1920x1080(Postposition) / 1280x720		1920x1080/1280x720
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n		
Wi-Fi Support system		iOs , Android	
Function	Photo、Video、Brightness Adjustment、Menu、Image Zoom、Image rotation	Photo,Video,Brightness,Adjustment,Menu,Image zoom,Wi-Fi transmission	
Interface	SD、mini USB、HDMI、Charging interface	SD, mini USB, HDMI, Charging interface	
Battery	Li-lon 3.7V 2200mAh	Li-lon 3.7V/5200mAh	
Camera Specifications			
Camera diameter	Ø5.5mm	Ø17mm	Ø23mm
Binocular insertion tube	Direct and lateral vision		
Pixel	1 Megapixels	2MP	1MP
Viewing direction	5mm~180mm	50mm~150mm	50mm~150mm
Viewing angle	68°	68°	68°
Lighting type	6 LED with adjustable brightness	4 Withe LEDs	1 Withe LED
Gooseneck length	1M/1.5M	1M	1M/1.5M

Thermal Imaging System Specifications (BS-385)

IR Resolution	120x90
Field of View-Horizontal	50°
Pixel Size	17um
Output Frame Rate	30Hz
Response Wavelength	Long wave , 8-14um
Thermal Sensitivity	<60mk
Measuring Range	-20 to 400°C (-4 to 752°F); Not calibrated below -10°C
Temperaturw Accuracy	± 5°C at -10 to 10°C (-14 to 50°F) ± 2°C at 10 to 100°C (50 to 212°F) ± 2% to 100 to 400°C (212 to 752°F)
Optimum Measurement Distance	0.5m (19.7")
Area	3 boxes with max./min./average
Color Palettes	White Hot, Red Blue, Lava, Iron , Arctic, Rainbow, Hot Iron, Layered,Medical, Red Hot, Black Hot

CE
EMC
EN: 61326



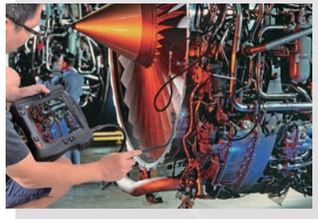
Model BS-385



Model BS-380

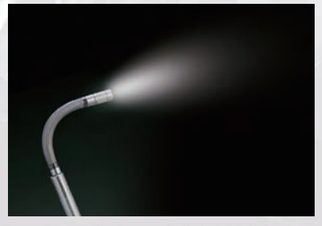
Size(HxWxD): 240mm x 160mm x 100mm **Weight:** 584g

Accessories: 3.7V Li battery, power adaptor, mirror, hook, USB cable, AV cable, SD memory card, magnet, gift box with carrying case.





Features a 7" (177.8mm) high definition color LCD monitor



Camera Tip features built-in LED lights

BS-450/450S

High Definition Video Borescope



BS-450/450S Portable industrial borescope is used for real-time detection and analysis of industrial field equipment. It has direct visual characteristics and can directly observe whether there are defects or abnormalities on the inner surface of large devices such as pipes , turbines, cylinders, engines and so on. In addition, real-time photography and video recording can be carried out to provide indispensable data acquisition for the analysis of equipment usage and equipment production guarantee.



Model BS-450

CE

EMC
EN: 61326

Features:

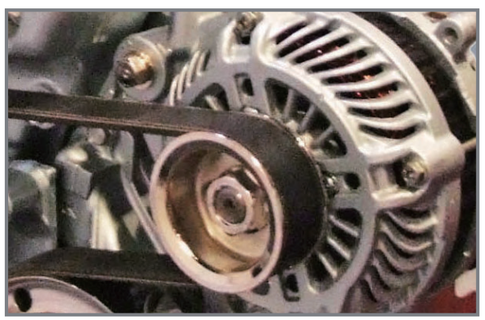
- 5” color TFT LCD with high definition 640x480 resolution
- Compact , high-resolution water-proof camera probe
- Camera head with six built-in bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- Support Wi-Fi real-time video transmission
- SD memory card included to store more than 14,600 images
- Video recording (up to 5 hours) with voice annotation
- HDMI output for viewing images and video directly on a monitor
- Video and images can be transferred to PC via the SD card or USB output
- Includes SD card , 12V rechargable Li-Polymer battery, patch cable ,AC adaptor,USB cables, camera probe,and hard carrying case
- Voice control, more convenient and user-friendly



System Specifications

Model	BS-450	BS-450S
LCD screen type	5” 640x480 TFT LCD	
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n	
Wi-Fi Support system	iOS, Android	
Operator’s lever control	360° electric rocker	
Digital zoom	2.0x	
Image rotation	1280x720	
Video resolution	1280x720	
Function	Photo,Video,Brightness,Adjustment,Menu,Image zoom,Wi-Fi transmission, Voice control	
Interface	SD, Type C USB, HDMI, Headset	
Battery	Li-lon 12V 2.5A	
Streoscopic measurement specifications		
Distance	none	Distance between two points
Point to line	none	Vertical distance between pointand custom
Depth	none	Point direct lying depth/heiht to custom plane
Area/line	none	Perimeter and area of multiple points
Effective Measurcment range	none	8-80mm
Measutrcment accuracy	none	0.1~0.2mm
Camera Specifications		
Camera diameter	ø 5.5mm	ø 5.5mm
Pixel	1 Megapixels	
Viewing diameter	3mm~ 100mm	5mm~ 60mm
Viewing angle	75°	75°
Lighting type	6 Withe LEDs	6 Withe LEDs
Length of tungsten filament tube	1M/1.5M	1M/1.5M





Size(HxWxD): 290mm x 128mm x 129mm

Weight: 584g

Accessories: 12V Li battery, power adaptor, mirror, hook, USB cable, AV cable, magnet, gift box with carrying case.

BS-452/452A

High Definition Video Borescope



BS-452 Portable industrial borescope is used for real-time detection and analysis of industrial field equipment. It has direct visual characteristics and can directly observe whether there are defects or abnormalities on the inner surface of large devices such as pipes, turbines, cylinders, engines and so on. In addition, real-time photography and video recording can be carried out to provide indispensable data acquisition for the analysis of equipment usage and equipment production guarantee.



Model BS-452A

CE

EMC
EN: 61326

Features:

- Stereoscopic measurement
- 5" color TFT LCD with high definition 640x480 resolution
- Compact, high-resolution water-proof camera probe
- Camera head with four built-in bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- SD memory card included to store more than 14,600 images
- Video recording (up to 5 hours) with voice annotation
- HDMI output for viewing images and video directly on a monitor
- Video and images can be transferred to PC via the SD card or USB output
- Includes SD card, 12V rechargable Li-Polymer battery, patch cable, AC adaptor, USB cables, camera probe, and hard carrying case
- Voice control, more convenient and user-friendly

Specifications

	BS-452	BS-452A
LCD screen type	5” 640x480 TFT LCD	
Digital zoom	2.0x	
Image rotation	90°	
Image resolution	Front/Side Camera:1280x720	640*480
Video resolution	Front/Side Camera:1280x720	640*480
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n	
Wi-Fi Support sysem	iOS , Android	
Function	Photo,Video,Brightness,Adjustment,Menu,Image zoom,Wi-Fi transmission, Voice control	
Interface	TF,Type-C,HDMI,Headset	
Battery	Li-lon 12V 2.5A	
Camera Specifications		
Camera diameter	Ø5.5mm	Ø23mm
Pixel	1MP	0.3MP
Optimal depth of field	30mm~100mm	5mm~60mm
Viewing angle	68º	68º
Lighting type	Front Camera:6 Withe LEDs Side Camera:1 Withe LED	1 Withe LED
Gooseneck length	1M/1.5M/3M	1M/1.5M

Thermal Imaging System Specifications (BS-452A)

IR Resolution	120x90
Field of View-Horizontal	50°
Pixel Size	17um
Output Frame Rate	30Hz
Response Wavelength	Long wave , 8-14um
Thermal Sensitivity	<60mk
Measuring Range	-20 to 400°C (-4 to 752°F); Not calibrated below -10°C
Temperaturw Accuracy	± 5°C at -10 to 10°C (-14 to 50°F) ± 2°C at 10 to 100°C (50 to 212°F) ± 2% to 100 to 400°C (212 to 752°F)
Optimum Measurement Distance	0.5m (19.7”)
Area	3 boxes with max./min./average
Color Palettes	Iron,Rainbow,Grey,Grey Inverted,Sepia,Blue Red,Hot Cold,Feather



Model BS-452

Size(HxWxD): 290mm x 128mm x 129mm

Weight: 584g

Accessories: 12V Li battery, power adaptor, mirror, hook, USB cable, AV cable, magnet, gift box with carrying case.

BS-480D

3D Measurement Videoscope



CE
EMC
EN: 61326

Model BS-480D

Integrating optics, electronics, precision machinery and binocular photogrammetry technology, it has high definition, good reliability and strong stability. Accurate detection and measurement can be carried out in places where manpower is not possible or there are potential safety hazards, and the actual needs of users can be solved to the greatest extent. With touching screen, adopting 720P high-definition solution, high-sensitivity CMOS sensor, make it easier and more accurate for detection and measurement.

Features:

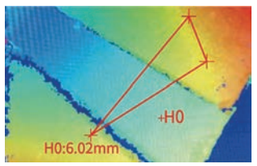
- The binocular lens adopts megapixel high-definition solution, high-sensitivity CMOS sensor, and automatic photosensitive
- Touchable high-definition bright display screen, clear image
- Modular design, easy to carry, probes replacing, and take into account more needs
- Point-to-point, point-to-line, point-to-surface, curve measurement and other measurement methods cover all customer needs
- Using high-definition binocular 3D modeling, the measurement is more accurate
- Enhanced display of defect negative film and defect color rendering mark function for easy defect identification

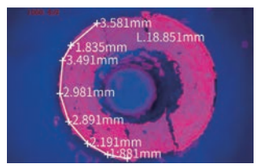
Specifications	
Camera diameter	6.0mm
LCD size	6.5 inches touch screen
Pixels	1,000,000
Controller size	351*163*122
DOF	8mm-80mm (side view camera 5mm-50mm)
Controller interface	HDMI interface, USB3.0 interface
FOV	120°
System memory	Built-in 4GB standard flash memory
Housing material	Titanium alloy or Stainless steel
Memory medium	128GB SSD
Cable length	2.0M/3.0M
Battery capacity and working hour	11.1V 7000mAh, ≥3 hours
Cable surface layer	Tungsten braided
Operation system	Embedded operation system
Bending angle	>120°
Control mode	Motor driven joystick control
Temperature warning	Over temperature warning
Type of light	High light LED
Special image processing	Negative
LED Life	100,000 hours
Still image record	Resolution 1280x720 format JPEG ,BMP
Temperature sensing	Build-in temperature sensor
Video recording	Resolution 1280x720 format AVI ,ASF
DOV	0 or 90°
Stereo measurement	Including point-to-point, point-to-line, point-to-surface, curve measuremeretc., the measurement accuracy is 0.1~0.2mm, and the deviation is 1~2%
Camera lock/ Pause	Available
Data output	Support U disk export

Size(HxWxD): 240mm x 160mm x 100mm **Weight:** 584g

Accessories: Battery, HDMI cable, Belt, Wiping cloth, Power supply, Measurement calibration, Safety case.

- High definition 3D scanning measurementcan perform precise 3D measurements.
- It can display object distance and measuredimensions in real-time, allowing for moreintuitive and accurate detection.
- The rich 3D depth cloud map provides areliable guarantee for accurate measurementand cracks as fine as silk threads can beaccurately displayed and measured.





- Excellent and strong light to support viewing large cavity



- Advanced noise reduction performance improves real-time image quality



- True color reproduction



- Higher resolution displays fine defects





BS-481D

Automotive Videoscope

Industrial videoscope is a new type of non-destructive flaw detection instrument that integrates optics, electronic technology, precision machinery and microscopic camera technology. The controller and probe are designed to be separated, and probes of 3.9mm/6.2mm with different diameters and lengths can be quickly replaced to suit more working conditions.

Features:

- 4.3 inches HD display touch screen
- Modular design allows for change probes quickly
- 360°damping bending with wear-resistant tungsten braided insertion cable
- HD 1,000,000 camera pixel module
- Long working hours with 26650 battery
- Ergonomic design for easy operation and portability

Specification			
Camera	Camera diameter	3.9mm	6mm
	Pixels	720P	
	Material	Stainless steel	
	Length of camera	15mm	
	DOF	10-100mm	15-infinity
	LED illumination	＞15,000LUX	＞25,000LUX
	Light type	LED	
Insertion part	Articulation part	4-way	
	Insertion cable	Tungsten braided	
	Insertion cable length	1.5M/3M	
	Joystick control	Built-in damping	
	Articulation control	Manual	
	Battery replacement method	Battery swappable	
	Structural features	Monitor/ probe interchangeable	
Display module	Size	4.3 inch	
	Resolution	800*480	
	Interface	Charge and read data	
	TF card	32G SD/TF card	
	WIFI	WIFI optional	
	Temperature indicator	High temperature alarm	
	Menu operation	Button / Touch screen	
Software operation	Software settings	Time/Multiple Languages/Energy Saving/Sound/Picture enlargement/SD Upgrade etc.	
	Language type	Chinese/English/French/German/Japanese/Spanish/Italian/Russian/Korean/Turkish	
Others	Power supply	5V 2A	
	Battery	26650 5000mAh	
	Working hours	4 hours	
	Operating temperature	Controller-10°~50°C	
	Weight	0.75KG	
	Package	Waterproof tool box	
	Waterproof	Controller, IP64/ Insertion cable, IP67	
	Drop rating	1M	
	Functional characteristics	White balance/ Contrast/ Tone/ Exposure/Selection/Gain-Scale/watermark/WIFI	



Model BS-481D

Size(HxWxD): 240mm x 160mm x 100mm **Weight:** 584g

Accessories:





Modular design allows for change probes quickly



360 ° damping bending with wear-resistant tungsten braided insertion cable



BS-160D/160DS/162

Video Borescope



Model BS-160D/ 160DS

CE

EMC
EN: 61326



BS-160D Series High Performance Industrial Endoscope is a visual inspection device used to observe the internal surface area of a device or part. Supports single or double lenses with lighting; Equipped with a 4.5-inch IPS display screen, 720p HD, and 6 LED lights; 1.5 m semi-rigid cable and back LED lamp; IP67 waterproof endoscope; New modular design structure, can quickly replace the pipeline.

BS-162 Two-Way Articulating endoscope with lighting, industrial-grade endoscope camera with bendable probe, flexible mechanical fiber serpentine endoscope camera, suitable for inspecting the wall surfaces of car engines.

Features:

- Support Wi-Fi real-time video transmission
- Compact, high-resolution water-proof camera probe
- Camera head with six built-in bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- SD memory card included to store more than 14,600 images
- Video and images can be transferred to PC via the SD card or USB output
- Includes SD card, 3.7V rechargable Li-Polymer battery, patch cable , AC adaptor, USB cables, camera probe, and hard carrying case

Specifications

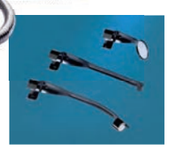
		BS-160D	BS-160DS	BS-162
LCD screen type	4.5″ 854×480 pixels TFT LCD		*	5″ 1080×1920 pixels
Wi-Fi Support system	iOS, Android	*	*	*
Digital zoom	3.0x	*	*	*
Photo format	JPG(1280×720)	*	*	JPG(1920×1080)
Video format	MP4(1280×720)	*	*	MP4(1920×1080)
Interface	Type C	*	*	*
Function	Photo, Video, Brightness adjustment, Menu, Image zoom		Wi-Fi transmission	*
Accessories	Magnet, Hook, Mirror	*	*	*
Storage	8GB TF card; Maximum Support 128GB TF card	*	*	*
Operating Altitude	6562 ft. (2000 m)	*	*	*
Waterproof level	IP67 Dustproof & Waterproof (camera & gooesneck only)	*	*	*
Battery Type	Internal Li-Ion, 2000mAh (7.4 Wh)	*	*	*
Power supply	5V TypeC	*	*	*
Charging Requirements	Max 5V DC, Max 1.5 A	*	*	*
Operating Temperature	14°F to 122°F (-10°C to 50°C)	*	*	*
Storage Temperature	-4°F to 140°F (-20°C to 60°C)	*	*	*
Camera Specifications				
Camera resolution	1280× 720 pixels	*	*	200W pixels
Camera Viewing direction	30mm~80mm The best	*	*	20mm~100mm
Camera Viewing angle	70°	*	*	*
Steering angle	two-way 180°	*	*	*
Camera diamete	5.5mm(Standard Configuration at Factory)	*	*	8.0mm(Standard Configuration at Factory)
Lighting type	6 Adjustable LEDs	*	*	*
Cable type	9.8″ (3 m) PVC gooseneck (StandardConfiguration at Factory)	*	*	Armored gooseneck
Cable length	1.5M	*	*	1.5M/2M/3M
Frames Per Second	25fps	*	*	*



Model BS-162

CE

EMC
EN: 61326



Mirror, Hook & Magnet





Size(HxWxD): 240mm x 160mm x 100mm
Weight: 584g

Accessories:
3.7V Li battery, power adaptor, mirror, hook, magnet, gift box with carrying case.

BS-280/280W/288/288S/285

Video Borescope



High definition 3.5" Color TFT LCD, supporting photo/video, time/date display and multi-languages.Video and images can also be transferred to your PC via the SD Card or USB cable(included). Modern design housing with waterproof(IP67) flexible gooseneck retains configured shape.

BS-288S combines the convenience of digital camera with thermal heat map at breakthrough affordability. The blended image eliminates guesswork and tells you the exact location of the issue.

- 3.5" Color TFT LCD
- Allows user to view image on LCD monitor
- Flexible gooseneck imager head with waterproof and Easily perform visual inspections in hard to reach areas
- High visibility and 10 degree adjustable LED lighting
- Camera and Video function
- Rechargeable battery with USB cable Support SD memory card extention
- Compatible with TV(TV-OUT)
- Menu with multinational language

Specifications

Model	BS-280	BS-280W/288S	BS-285	BS-288/288S
LCD screen type	3.5” 320x240 TFT LCD			
The max number of frames(FPS)	30FPS			30Hz
Picture format from the camera	JPG(640x480)	JPG (640x480/1280x720)	Front: 1280x720, Side : 1280x720	120 x 90 (InfrarRed resolution)
Camera video format	MP4/AVI (640x480)	MP4/ AVI (640x480/1280x720)	Front: 1280x720, Side : 1280x720	120 x 90 (InfrarRed resolution)
Thermal sensitivity				<60 mk
Temperature range				-20°C to 120°C
Area				3 boxes with max. /min. /average
Color palettes				GRAY/IRON
Auto focus		1 Megapixel		
Camera diameter	17mm(0.66”)		ø 5.5mm	19.5mm(0.77”)
Viewing distance	5cm to 15cm		3mm~ 8mm	10cm to ∞
Gooseneck length	1m(39”)			1m(39”)
Viewing angle	68°			50°
Zoom and Rotation	3xZoom, 5°/15°/ 30°/90° rotation	2xZoom, 90° rotation	2.0x	2xZoom, 90° rotation
Wi-Fi Support system		iOS, Android	iOS , Android	iOS, Android
SD card	2GB/Max 32GB			2GB/Max 32GB
Working voltage	Li Battery 3.7V/1800mA		Li-Ion 3.7V 2600mAh	Li Battery 3.7V/1800mA
Language	Support English, French, German, Spanish			Support English,French, German, Spanish
BS-288S Video instrument built-in thermalimager				

Size(HxWxD): 249mm x 105mm x 113mm **Weight:** 584g
Accessories: 3.7V Li battery, power adaptor, mirror, hook, magnet, gift box with carrying case.

Accessories:



HD-17
Φ17mm 5Mega Pixels Camera Probe



Mirror, Hook & Magnet



BT-17
Φ17mm Camera Probe



BT-6
Φ6mm Camera Probe



YC-17
Φ17mm Extension Cable (1-3 meter optional)



BT-9
Φ9mm Camera Probe







Φ17mm 5Mega Pixels Camera Probe

CE

EMC
EN: 61326

Model BS-288/288S



Model BS-280



Wi-Fi Connectivity



Model BS-285

BS-151/150/150B

Video Borescope



Model BS-151



Model BS-150

3.2" Color TFT LCD, supporting photo/video, time/date display and multi-languages.Video and images can also be transferred to your PC via the SD Card or USB cable(included). Waterproof(IP67) flexible gooseneck retains configured shape.

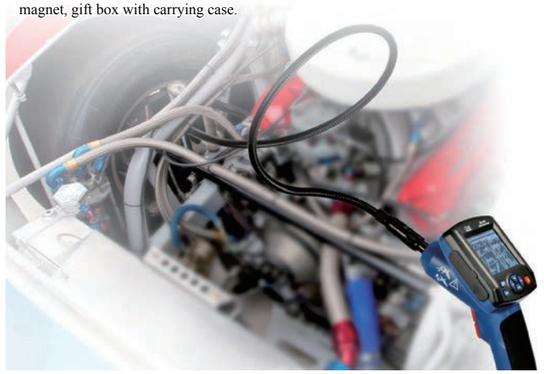
Specifications

	BS-150	BS-150B	BS-151
LCD screen type	3.2"TFT	3.2"TFT	3.5"TFT
LCD Pixels	320×240		
The max number of frames(FPS)	30FPS/S		
Picture format from the camera	JPG(640x480)		
Camera video format	3GP	AVI(720x240)	AVI(640x480)
Gooseneck length	1m(39")		
Camera diameter	17mm(0.66")		
Viewing distance	5cm to 15cm		
Viewing angle	68°		
Zoom			2.0X
Rotation		Mirror 180°	90°
SD card	Max 8GB	2GB/Max 8GB	
Working voltage	Li Battery 3.7V/1800mA		
TV-OUT	PAL/ NTSC	NTSC	PAL/ NTSC
Language	Support English,French,German,Spanish		

Size(HxWxD): 240mm x 160mm x 100mm

Weight: 584g

Accessories: 3.7V Li battery, power adaptor, USB cable, mirror, hook, magnet, gift box with carrying case.



BS-182W Video Borescope

182W/183W is a Wi-Fi borescope that can wirelessly stream high-quality video from a camera at the tip of a long probe to the screen of a nearby iPhone or iPad or Android smartphone or tablet computer. Typical applications include inspections of hard-to-reach or hard-to-see areas like crowded engine compartments, equipment enclosures or HVAC ductwork.

Specifications

	182W	183W
Max number of frames(FPS)	30fps/s	30fps/s
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Wi-Fi Frequency range	2.400 ~ 2.4835GHz	2.400 ~ 2.4835GHz
Wi-Fi Modulation mode	802.11b/g/n	802.11b/g/n
Wi-Fi Support system	iOS, Android	iOS, Android
Wi-Fi Distance	10m(Indoor)	10m(Indoor)
Gooseneck length	1m(39")	1m(39")
Camera diameter	17mm(0.66")	5.5mm(0.217")
Rotation		360°
Viewing distance	5cm ~ 15cm	5cm
Viewing angle	68°	55°
Working voltage	Li Battery 3.7V/1400mA	Li Battery 3.7V/1400mA

Meterbox iScope



Model BS-182W

BS-250/250S

Video Borescope

Borescope provides a complete view of interior drains, pipes and other plumbing systems. It features a 4.5-Inch color LCD monitor with 854 x 480 resolution, three-times zoom, and 180-Degree screen view rotation. View captured videos and images on the display or transfer them to your PC via USB-C.

Specifications

	BS-250	BS-250S
System Specifications		
LCD screen type	4.5" 854×480 pixels TFT LCD	
Wi-Fi Support system	iOS, Android	
Digital zoom	2.0x	
Photo format	JPG(1280×720)	
Video format	MP4(1280×720)	
Interface	Type C	
Function	Photo, Video, Brightness adjustment, Menu, Image zoom, Wi-Fi transmission	
Accessories	Magnet,Hook,Mirror	
Storage	8GB TF card	
Power supply	5V Type C	
Battery	lithium, 2000 mAh	
Waterproof level	"IP67 Dustproof & Waterproof (camera & gooesneck only)"	
Operating Temperature	-10° to 50°C	
Camera Specifications		
Camera resolution	1280 × 720 pixels	
Camera Viewing direction	3mm~ 8mm The best	
Camera Viewing angle	70°	
Camera diameter	Ø5.5mm	Ø5.5mm/Ø9.0mm
Lighting type	Single lens: 6 Adjustable LEDs	Dual lens: (Front: 6 Adjustable LEDs; Side:1 Adjustable LEDs)
Cable type	PVC gooseneck	Ø5.5mm,Armored gooseneck Ø9.0mm,Equipped with a horizontal 360 degree rotating armor goose neck
Cable length	1.5M (3M)	
Frames Per Second	25 fps	

Size(HxWxD): 168mm x 82mm x 35mm **Weight:** 245g

Accessories: 3.7V Li battery, power adaptor, USB cable, mirror, hook, magnet, gift box with carrying case.



Model BS-250

BS-128/101 Video Borescope

Color TFT LCD, supporting real-time live view. Waterproof(IP67) flexible gooseneck retains configured shape.

Features

	BS-128	BS-101
Support real-time live view	*	*
Highlighted with LED to support the operation in the dark	*	*
Standby function to support the charge	*	*
Support rotating the image 180°from top to bottom	*	*
Flexible gooseneck imager head with waterproof	*	*
Built-in 1800mAh lithium battery, support USB charging		*
4 x AA battery	*	
2.4" Color TFT LCD	2.4"	3.5"

Specifications

	BS-128	BS-101
LCD screen type	2.4"TFT	3.5"TFT
LCD Pixels	480x234	320x240
The max number of frames(FPS)	30FPS/S	30FPS/S
Gooseneck length	1m (39")	1m (39")
Camera diameter	17mm (0.66")	17mm (0.66")
Viewing distance	5cm to 15cm	5cm to 15cm
Viewing angle	68°	68°
Zoom		2.0X
TV-OUT		PAL/NTSC system

Size(HxWxD): 235x79x104mm (BS-128), 240x160x100mm (BS-101)

Weight: 584g

Accessories:

4 x AA battery (BS-128), 3.7V Li battery, power adaptor (BS-101), mirror, hook, magnet, gift box with carrying case.



Model BS-128



Model BS-101

BS-220W/220S

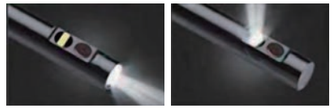
Dual Camera Wireless Borescope



Meterbox iScope

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Model BS-220W



Specifications			
Gooseneck length	1.5m	BS-220W	BS-220S
Camera diameter	5.5mm(0.216")	*	*
Pixels	1280x720	*	*
Optimum focal length	4cm~10cm	*	*
Binocular insertion tube	Direct and lateral vision	*	*
FOV	70°	*	*
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n	*	*
Wi-Fi Support system	Android, iOS	*	*
Wi-Fi transmission distance	≥10m	*	*
Battery	Li-Ion 3.7V 2600mAh	*	*
DC Charge	DC 5V 2A	*	*
Camera Lens		Double	one
APP Display		0°	Up is Up (G-sensor angle)

Size(HxWxD): 197mm x 69mm x 32mm **Weight:** 256g
Accessories: 3.7V Li battery, hook, USB cable, magnet, gift box.

BS-060 Video Borescope

2.4" Color TFT LCD, supporting real-time live view. Waterproof(IP67) flexible gooseneck retains configured shape.

Features
Support real-time live view
Built-in 2000mAh lithium battery, support USB charging
Standby function to support the charge
Flexible gooseneck imager head with waterproof
Camera function



Model BS-060

Specifications	
Color TFT LCD screen type	2.4"TFT (480x234 Pixels)
The max number of frames(FPS)	30FPS/S
Gooseneck length	1m(39")
Camera diameter	17mm(0.66")
Viewing distance	5cm to 15cm
Viewing angle	68°
Working voltage	Li Battery 3.7V/2000mA

Size(HxWxD): 135mm x 68mm x 30mm
Weight: 180g
Accessories:
3.7V 1400mAH Li battery, gift box with carrying case.

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BS-050 Borescope / CT-050 Camera Tester

Features (CT-050)
Install 1400mAh Li battery
High definition 2.4" TFT LCD resolution 480x234
NTSC/PAL switch automatic
No video signal input, then will switch to standby model automatic. If video signal detected will arouse automatic and enter work state.
Easy to use and carry



Model BS-050

Model CT-050

Specifications			
		BS-050	CT-050
LCD screen type	2.4"TFT	*	*
LCD Pixels	480x234	*	*
The max number of frames(FPS)	30FPS/S	*	
Gooseneck length	1m(39")	*	
Camera diameter	17mm(0.66")	*	
Viewing distance	5cm to 15cm	*	
Viewing angle	68°	*	

Size(HxWxD): 135mm x 68mm x 30mm
Weight: 173g

Accessories:
3.7V 1400mAH Li battery, gift box with carrying case.

BS-100W

Wireless Borescope

Perfect tool for HVAC inspection, vent pipe, machine equipment, engine, automotive, parts assembly, construction sites, wind turbines inspection. It will play an important role in seeing the digestion or other glitches when the place is hard to reach. It can be easily connected with your phone, computer and other terminals via wifi.

Model BS-100W Specifications	
Gooseneck length	1m/1.5m/2m Optional
Camera diameter	9mm(0.354")
Pixels	1280x720/640x480
Optimum focal length	4cm~10cm
FOV	70°
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n
Wi-Fi Support system	Android ,iOS
Wi-Fi transmission distance	Max. 20m
Battery	lithium battery 4.2V 2600mA
DC Charge	DC 5V / 2A

Size(HxWxD): 197mm x 49mm x 32mm **Weight:** 318g

Accessories: 3.7V Li battery, mirror, hook, USB cable, AV cable, magnet, gift box with carrying case.

Meterbox iScope



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Model BS-100W

BS-10 OTG & Micro USB Inspection Borescope Camera

This endoscope can be used everywhere and everytime you want only by your phone. Small size, light weight, front end module shell diameter 8mm, the middle part of the installation of a control box, can adjust the brightness of six LED lights, capture the image after the photo directly take photos stored within the Android mobile phone, video can record the whole process of examination convenient for observation and analysis of follow-up.

Camera Specifications		
Camera diameter	Ø5.5mm	Ø8mm
Resolution	640x480	1280x1080
Viewing direction	2cm~8cm	2cm~10cm
Viewing angle	70°	
Lighting type	6 LED with adjustable brightness	
Cable length	1m/1.5m/2m/3.5m/5m	
Power supply	5V DC Via OTG USB Port	
Computer operating system	XP/Win7/Win8/Vista	
Photo format	JPEG	
Video format	AVI	
Waterproof level	IP67	



Model BS-10 Mirror, Hook & Magnet

BS-20 Wireless Borescope Camera

BS-20 is a universal high-quality wireless inspection camera that detects distance along the extension of the telescopic rod, allowing the eyes to enter difficult to reach positions. Suitable for multiple applications, such as electrical data/telecommunications, pipelines, HVAC, home inspection, DIY, builders, marine, and pest control.

Specifications	
Wi-Fi Wireless range	Up to 10M line of sight
Wi-Fi Support system	ios , Android
Wireless Frequency	2.4GHz
Function	Photo,Video,Brightness,Adjustment
Interface	Charging interface
Battery	Li-Ion 3.7V/500mAh
Camera Specifications	
Camera diameter	ø21mm
Pixel	1 MP
Optimal depth of field	50mm~150mm
Viewing angle	68°
Lighting type	6 Withe LEDs

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Model BS-20

- Built-in WiFi hotspot
- Wireless range up to 50' (15m)
- Inbuilt rechargeable battery
- IP67 dustproof & waterproof
- 720p HD streaming
- Adjustable bright white LEDs
- Digital zoom

Professional Multifunction Environment Meters



DT-8891/8891A



Professional Thermocouple Thermometers

DT-120/125H/125G



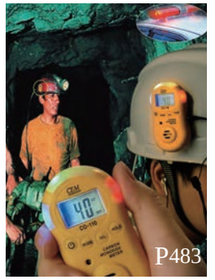
Moisture meters

DT-3809



LED Light Meter

CO-110



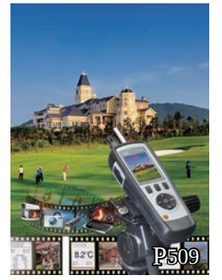
Gas Detector

DT-8851/8852



Sound Level Meters

DT-9880



Particle Counter

DT-321/321S



Humidity & Temperature Meters

DT-8894



Thermo-Anemometer with IR temperature

DT-850 Series



Multifunction Environment Meters

DT-171/172



Temperature and Humidity Dataloggers

DT-8890/8890A



Manometers

DT-859A



4 in 1 Multifunction Environment Meter

DT-179
Carbon Monoxide Datalogger (P396)



DT-185
Light Datalogger (P395)



DT-186
Anemometer Datalogger (P395)



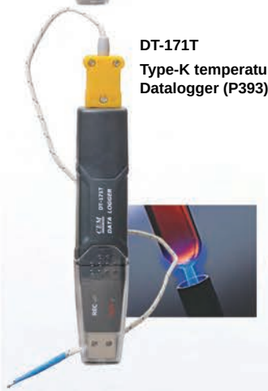
DT-171
Humidity & Temperature Datalogger (P393)



DT-171V
DC Voltage Datalogger (P394)



DT-171T
Type-K temperature Datalogger (P393)



DT-173
Sound Level Datalogger (P395)



DT-174B
Humidity/Temperature & Air Pressure Datalogger (P396)



DT-178A
3-Axis Vibration Datalogger (P398)



DT-175CV1
AC Current & Voltage Datalogger (P279)



DT-172
Temperature & Humidity Datalogger (P394)



DT-193H1
Temperature & Humidity Datalogger (P391)



DT-194TH
Temperature Datalogger (P392)



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DT-100B
Bluetooth Transmitter



DT-1700H/1702/1702B

Laboratory Temperature & Humidity / Sound Level / CO Datalogger

0~100% RH | Temperature | DATA LOGGER | PC interface

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Made for iPod iPhone iPad

Features

	1700H	1702B	1702
Humidity & temperature readings, plus time and date	*		
Sound level , humidity & temperature readings, plus time and date		*	
Carbon monoxide, plus time and date			*
Measures humidity & temperature plus included software calculates and graphs dew point, wet bulb, and GPP (grains per pound)	*	*	*
Large dual graphical LCD displays with adjustable vertical and horizontal TAC resolution	*	*	*
Internal memory records up to 80 Million data points	*	*	*
7" TFT color LCD indicates percentage of memory remaining	*	*	*
Replaceable probe does not require recalibration	*	*	*
Detachable probe extends up to 1 meter for measurements in closed environments	*	*	*
Audible and visual alarm with Hi/Low setpoints	*	*	*
Output socket used with optional external alarm module	*	*	*
Scroll the cursor to display selected data recorded	*	*	*
Desk or wall mount	*	*	*
Bluetooth interface to smartphone/PC	*	*	*
Smart touchscreen	*	*	*
Sample rate 1 second	*	*	*



Model 1700H

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Specification

		1700H	1702B	1702
Relative humidity range	20 ~ 80%RH ±2.5%RH@25°C 10 ~ 20%RH & 80 ~ 95%RH ±3.0%RH@25°C	*	*	
Temperature range accuracy	-10 ~ 40°C (14 ~ 104°F) ±0.5°C/0.9°F	*	*	
	-20 ~ -10°C (-4 ~ 14°F) ±1.5°C/3.0°F	*	*	
	-10 ~ 80°C (14 ~ 176°F) ±0.5°C/0.9°F	*	*	
Sound level meter			*	*
Sound level range	Auto: 30dB~130dB (31.5HZ ~ 8kHZ)		*	*
Accuracy	±1.4dB (IEC61672 -1 CLASS2)		*	*

Size(HxWxD):180mm x 115mm x 18mm
Weight: 450g

Accessories :
3.7V Lithium battery, software with Color box.

Model 1702

DT-1703 Desktop Indoor Air Quality CO_2 Monitor

Features

- 7" Color TFT LCD Display
- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function

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Specifications

Function	Range	Resolution	Accuracy
CO_2	0-9999ppm	1ppm	±5%±75ppm
Temperature	-10 to 80°C/14 to 176°F	0.1°C/°F	±0.5°C/0.9°F
	-20 to -10°C/-4 to 14°F		±1.5°C/3.0°F
	-10 ~ 80°C (14 ~ 176°F)		±0.5°C/0.9°F
Humidity	20 to 80%RH	0.1%RH	±2.5%RH@25°C
	10 ~ 20%RH & 80 ~ 95%RH		±3.0%RH@25°C

Size(HxWxD): 205mm x 110mm x 35mm
Weight: 350g
Accessories : NiMH battery, gift box with carrying case.



Model 1703

DT-200
USB Temperature Data Logger

0~100% RH | Temperature | DATA LOGGER | PC interface

This thermometer recorder is primarily used for temperature monitoring and recording in food, pharmaceutical, and cold chain transportation environments. It connects to a computer via USB, records data, and outputs in PDF report format. Equipped with a built-in temperature sensor, it is powered by a CR2450 wide-temperature lithium battery and has a waterproof rating of IP65.

Features

- Real-time temperature monitoring
- High-precision temperature data monitoring
- Report output in PDF format
- Overtemperature alarm function
- Low power consumption, supporting continuous monitoring for extended periods

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Model 200





Specifications

Function	Range	Resolution	Accuracy
Temperature	-30°C to 70°C -22°F to 158°F	0.1°C/°F	±0.5°C/±0.9°F (-20°C to 40°C/-4°F ~ 104°F) ±1°C/±1.8°F (other)
Data Storage Capacity	115200 measurements		
Measurement Interval	10 minutes		
Recording Period	6, 15, 30, 60, 90, 120, 180, 200 days (can be customized by factory)		
Report Generation	Auto Generated PDF Report		
Alarm Type	Single type (Sin), Cumulative type (Cum) (can be activated or deactivated by user)		
Alarm Threshold	Low alarm below 2°C; High alarm above 8°C (can be customized by factory)		
Connection Interface	USB 2.0 A-type		
Battery	CR2450 (Removable)		
Battery Life	2 years (extreme low or high temperatures may shorten battery life)		
Storage Conditions	-20 °C to 50 °C; <75% RH for -10 °C to 30 °C; <50% RH for 30 °C to 50 °C		
IP rating	IP65		

Size(HxWxD): 95mm x 39mm x 8mm **Weight:** 40g
Accessories : 3V Lithium battery, software and clamshell.

DT-191/191A/191B Plug-PDF Temperature/Humidity Dataloggers

191 series Plug-PDF Temperature/Humidity datalogger can monitor temperature and humidity values efficiently and conveniently for long time.

The readings are saved in the logger and simply read out by your PC with USB interface.



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Model 191A



Features

	191	191A	191B
Temperature datalogger	*		
Temperature and humidity datalogger		*	
Temperature and air pressure datalogger			*
Immediately USB flash disk PDF report	*	*	*
Freely selectable sample rate 1 min to 24h	*	*	*
LCD Max/ Min display	*	*	*
Download collected data through USB interface	*	*	*
Battery life :up to 1 year (1 minute sample rate)	*	*	*
Alarm display if user-defined maximum/minimum value is exceed	*	*	*
Analysis software used to view graph for logging data	*	*	*

Specifications

	191	191A	191B
Temp. range	-30 to 70℃/ -22 to 158℉	-30 to 70℃/ -22 to 158℉	-30 to 70℃/ -22 to 158℉
Temp. accuracy	±1℃/1.8℉	±1℃/1.8℉	±1℃/1.8℉
Temp. resolution	0.1℃/0.1℉	0.1℃/0.1℉	0.1℃/0.1℉
Humidity range		0 to 100%RH	0 to 100%RH
Humidity accuracy		±3.5%RH	±3.5%RH
Humidity resolution		0.1%RH	0.1%RH
Air pressure range			300 to 1200hpa
Air pressure accuracy			±3hpa
Air pressure resolution			1hpa
Memory	40020	40020(20010 / channel)	40020(13340 / channel)
Sample rate	1min-24 hours		
Battery life	1year（Sample rate 1minute）		
PDF report	Immediately USB flash disk PDF report		
Analysis software	Windows XP/Vista/Win7/Win8/Win10		

Size(HxWxD): 75mm x 35mm x 16mm **Weight:** 50g
Accessories : 3V Lithium battery, software and clamshell.

DT-192A/192B
Temperature & Humidity Datalogger

A compact data logger is capable of recording data for months, even for long-term shipping and storage. All data viewing, data exporting, and printing are down via two function keys.

0~100% RH | Temperature | DATA LOGGER | PC interface

EMC
EN: 61326

Features

	192A	192B
Temperature and humidity datalogger	Temperature	Temperature & humidity
Freely selectable sample rate 1 sec to 24h	*	*
LCD Max Min display	*	*
Download collected data through USB interface	*	*
Battery life :up to 2 years (1 minute sample rate)	*	*
Alarm display if user-defined maximum/minimum value is exceed	*	*
Analysis software used to view graph for logging data	*	*



Model 192A

Specifications

	192A	192B
Internal Temperature sensor range	-40 to 80℃ (-40 to176℉)	-40 to 80℃(-40 to176℉)
Probe Temperature sensor range	-50 to 110℃(-58 to 230℉)	-50 to 110℃(-58 to 230℉)
Temperature resolution	0.1°C/ 0.1℉	0.1°C/ 0.1℉
Temperature best accuracy	±0.3°C / ±0.54℉	± 0.3°C / ± 0.54℉
Humidity sensor range		5% to 95%RH
Humidity resolution		0.05%RH
Humidity best accuracy		±2%RH
Memory capacity	52,000 Samples (over 2 channels)	52,000 Samples (over 3 channels)
Sampling rate	Minimum: Once every second Maximum:Once every 24 hours	Minimum: Once every second Maximum:Once every 24 hours
Dew Point		LCD and Software indication
Alarm	BEEP alarm	BEEP alarm
PC Connection	Micro USB	Micro USB
Battery life	2 years depending on sampling rate and operating conditions	
External Temperature sensor type	NTC Temperature sensor 2.5m cable length	
Connection	Mini USB	

Accessories : 3.6V Lithium battery, software and clamshell.
Size(HxWxD): 75mm x 62mm x 32mm
Weight: 150g


Data recording


Connect to PC via USB cable



Model 192B

193T1/193H1/193G/193TB1/193HB1/193TN1/193HN1

Plug-PDF Temperature/Humidity/Vibration Dataloggers

0~100% RH | Temperature | DATA LOGGER | PC interface

193 series Plug-PDF Temperature/Humidity/vibration dataloggers can monitor temperature/humidity/vibration values efficiently and conveniently for long time. 193TB1/193HB1 have bluetooth, the readings can be read on the smartphone by APP software. 193TN1/193HN1 have NB-IOT function, the readings will be up-loaded to cloud server and can be read on the smart phone.

The readings are saved in the logger and simply read out by your PC with USB interface.

CE EMC EN: 61326

Bluetooth

Features

	193T1	193H1	193G	193TB1	193HB1	193TN1	193HN1
Temperature datalogger	*			*		*	
Temperature and humidity datalogger		*			*		*
Temperature ,humidity and vibration datalogger			*				
Immediately create PDF report in USB flash disk	*	*	*				
Freely selectable sample rate 1 min to 24h	*	*	*				
LCD Max/ Min display	*	*	*				
Download collected data through USB interface	*	*	*	Bluetooth		NB-IOT	
Battery life: up to 1 year (1 minute sample rate)	*	*	*				
Alarm LED indication	*	*	*				
Analysis software	*	*	*				



Model 193H1

Specifications

	193T1/193TB1/193TN1	193H1/193HB1/193HN1	193G
Temp. range	-30 to 70℃/ -22 to 158℉	-30 to 70℃/ -22 to 158℉	-30 to 70℃/ -22 to 158℉
Temp. accuracy	±1℃/1.8℉	±1℃/1.8℉	±1℃/1.8℉
Temp. resolution	0.1℃/0.1℉	0.1℃/0.1℉	0.1℃/0.1℉
Humidity range		0 to 100%RH	0 to 100%RH
Humidity accuracy		±3.5%RH	±3.5%RH
Humidity resolution		0.1%RH	0.1%RH
vibration range			0 to 16g
vibration accuracy			±0.5g
vibration resolution			0.1g
Memory	32000	32000(16000 /channel)	30000(T+RH) 1000(vibration)
Sample rate	1min-24 hours		
Battery life	1year（Sample rate 1minute）		
PDF report	Immediately create PDF report in USB flash disk		
Analysis software	Windows XP/Vista/win7/win8/win10		

Accessories : 3V Lithium battery,software and clamshell.

Size(HxWxD): 95mm x 39mm x 13mm
Weight: 50g



DT-194T/194TH/194TK/195TH

Plug-PDF Temperature/Humidity/Vibration Dataloggers

194T series Plug-PDF Temperature/Humidity & Vibration dataloggers can monitor temperature/humidity/Vibration values efficiently and conveniently for long time. 194TK is thermocouple datalogger.

The readings are saved in the logger and simply read out by your PC with USB interface.

CE EMC EN: 61326

0~100% RH | Temperature | DATA LOGGER | PC interface

Features

	194T	194TH	195TH	194TK	194G
Temperature datalogger	*				
Temperature and humidity datalogger		*	*		
Temperature type K range datalogger				*	
Temperature, humidity and vibration datalogger					*
Immediately create PDF report in USB flash disk	*	*	*	*	*
Freely selectable sample rate 1 min to 24h	*	*	*	*	*
Max/ Min LCD display	*	*	*	*	*
Download collected data through USB interface	*	*	*	*	*
Battery life: up to 1 year (1 minute sample rate)	*	*	*	*	*
Alarm display if user-defined maximum/minimum value is exceed	*	*	*	*	*
Analysis software used to view graph for logging data	*	*	*	*	*



Model 194TH



Model 195TH

Specifictions

	194T	194TH/195TH	194TK	194G
Temp. range	-40 to 70℃/ -40 to 158℉	-40 to 70℃/ -40 to 158℉	-200 to 1370°C (-328 to 2498°F)	-30 to 70℃/ -22 to 158℉
Temp. accuracy	±1℃/1.8℉	±1℃/1.8℉	±[0.15%rdg+1°C(1.8°F)]	±1℃/1.8℉
Temp. resolution	0.1℃/0.1℉	0.1℃/0.1℉	0.1℃/0.1℉	0.1℃/0.1℉
Humidity range		0 to 100%RH		0 to 100%RH
Humidity accuracy		±3.5%RH		±3.5%RH
Humidity resolution		0.1%RH		0.1%RH
vibration range				0 to 16g
vibration accuracy				±0.5g
Memory	40020	40020(20010/channel)	40020	30000(T+RH) 1000(vibration)
Sample rate	2sec~24 hours			
Battery life	1year（Sample rate 1minute）			
PDF report	Immediately create PDF report in USB flash disk			
Analysis software	Windows XP/Vista/win7/win8/win10			

Accessories : 3.6V Lithium battery,software and clamshell.

Size(HxWxD): 122mm x 11mm x 26mm
Weight: 60g



DT-170/171/171T/171C/171E/171F

Temperature and Humidity Dataloggers

0~100% RH | Temperature | DATA LOGGER | PC interface

You can monitor temperature and humidity values efficiently and conveniently for long time periods by using the Datalogger.

The readings are saved in the logger and simply read out by your PC with USB interface.

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- Memory for 16000 (171) readings
- Temperature datalogger (170)
- 2000 Counts digital LCD display (171E)
- PDF report (171F)
- Freely selectable measurement cycle from 2sec. to 24h
- Battery life: more than 3 years
- Display all status information through two LEDs
- Download collected data through USB interface
- Alarm display if user-defined maximum/minimum values is exceed
- Analysis software used to view graph for logging data

Model 171





Model 171C

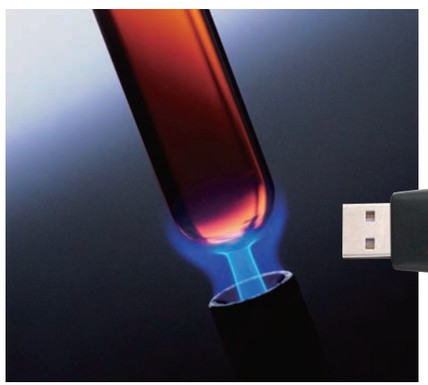


Specifications

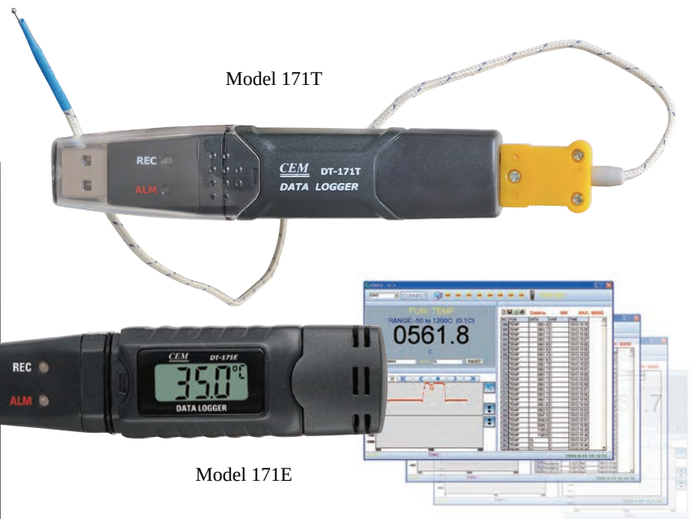
	170	171/171E/171C/171F	171T
Temp range	-40 to 70ºC -40 to 158°F	-40 to 70ºC -40 to 158°F	
Temp Accuracy	±1ºC	±1ºC	
Humidity range		0 to 100%RH	
Humidity Accuracy		±3.5%RH	
Temp K range			-200 to 1370°C(-328 to 2498°F)
Temp K Accuracy			±1ºC
Memory	32000(16000 each for temperature and humidity)		
Measuring rate	2sec. to 24h		
Battery life	typically 3 years		
Analysis software	windows 98/2000/XP/Vista/7		

Accessories :
3.6V Lithium battery, K-Temp probe(171T), software and clamshell.

Size(HxWxD): 130mm x 30mm x 25mm
Weight: 20g



Model 171T



Model 171E



Model 171V
Model 171VD
Model 171A

CE
EMC
EN: 61326

DATA LOGGER | PC interface



Specifications

	171V/171VD	171A/171AD
DC Voltage range	0 to 30V	
DC Voltage accuracy	±0.5%+1	±0.5%+1
DC Current range		4 to 20mA
DC Current accuracy		±1%±1Count
Reading Memories	32000 readings	32000 readings
Measuring rate	400Hz. to 24h	1sec. to 24h
LCD display counts	2000(171VD)	2000(171AD)
Analysis software	windows 98/2000/XP/Vista/7	

Accessories : 3.6V Lithium battery,software and clamshell.
Size(HxWxD): 130mm x 30mm x 25mm **Weight:** 20g

DT-172/172TK/172BLE/172 Beacon Datalogger



Model 172BLE

Bluetooth



CE
EMC
EN: 61326

Model 174







DT-174 Temperature/Humidity & Pressure Datalogger



0~100% RH | Temperature | DATA LOGGER | PC interface

174 provides much faster, more accurate and stable readings with temperature, humidity & air pressure which is in better precision. The windtight design protects the meter against dust and water.

Features

- The datalogger provides accurate readings with temperature, humidity & air pressure .
- For the three group data of Temperature, Humidity and Air Pressure, about 10900 readings of each can be recorded.
- For one group, about 32,700 data can be recorded.
- Freely selectable measurement cycle from 1 sec. to 24h.
- Sound & light alarm indication if user-defined maximum/minimum values is exceed.
- Larger LCD display date, time, temperature, humidity, air pressure and upper/lower limit value.
- Bluetooth 5.0 (172BLE/172Beacon)

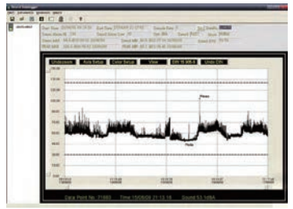
Specifications

	172/172BLE/172Beacon	172TK	174
Temp range	-40 to 70ºC -40 to 158°F	-40 to 70ºC -40 to 158°F	40 to 70ºC -40 to 158°F
Temp Accuracy	±1ºC	±0.5ºC	±1ºC/1.8°F
Humidity range	0 to 100%RH	0 to 100%RH	0 to 100%RH
Hunidity Accuracy	±3.5%RH	±3.5%RH	
Temp K range		-200 to 1370°C(-328 to 2498°F)	
Temp K Accuracy		Above -100°C (-148°F): 0.15%rgd+1.0°C(1.8°F) Blow -100°C (-148°F): 0.5%rgd+2.0°C(3.6°F)	
Dew Point Temperature			-40 to 70ºC (-40 to 158°F); Accuracy ±2ºC/4ºF
Air Pressure			0-30PSI/0-2000hPa; Accuracy 0.01PSI/1hPa
Memory	32000(16000 each for temperature and humidity)		
Measuring rate	1sec. to 24h		
Battery life	typically 3 years		
Analysis software	windows 98/2000/XP/Vista/7		

Accessories :
3.6V Lithium battery, K-Temp probe(172TK), software and clamshell. (DT-172/172TK) **Size(HxWxD):**94mm x 50mm x 32mm **Weight:** 91g (DT-172/172TK)
3.6V Lithium battery, software and clamshell.(DT-174) **Size(HxWxD):**132mm x 66mm x 37mm **Weight:** 180g (DT-174)

DT-173
Sound Level Datalogger

Features
IEC61672-1 CLASS2
MAX & MIN measurements
Alarm value setup
A & C Weighting
NORM(Normal) & PEAK mode
25ms sample interval
FAST & SLOW response
Manual and Automatic mode



EMC
EN: 61326



Specifications
Standard applied	IEC61672 -1 CLASS2
Accuracy	±1.4dB
Frequency range	31.5HZ ~ 8kHZ
Dynamic range	50dB
Level range	Auto: 30dB~130dB
Frequency weighting	A/C
Time weighting	FAST (125ms), SLOW (1s)
Memory Reading	129920 points for dBA or dBC
Sample rate	1 Sec. to 24h
Microphone	1/2 inch electret condenser microphone
Data output	USB data traffic



Model 173

Size(HxWxD): 106mm x 56mm x 33.5mm
Weight: 34g
Accessories :
3.6V Lithium battery, stand, software and clamshell.

DT-186/187 Anemometer Datalogger



Model 186 Model 187

EMC
EN: 61326



Features
Alarm setup and indication
Recording and low battery indication
Manual and automatic start mode
USB port for data traffic and power supply
Status indication via Red/Yellow LED and Green LED
Analysis software windows 98/2000/XP/Vista/7

Specifications
Memory	32000 readings
Measuring rate	2sec. to 24h
Measurement Range	0.40 to 30.0m/s
Measurement Resolution	0.1m/s
Accuracy	±3.5% ± 0.2m/s
Warm up period	Less than 2 seconds

Size(HxWxD): 145mm x 35mm x 30mm **Weight:** 49g
Accessories : 3.6V Lithium battery, software and clamshell.

DT-185 USB Light Datalogger

Features
Alarm setup and indication
Recording and low battery indication
Manual and automatic start mode
USB port for data transmission and power supply
Status indication via Red/Yellow LED and Green LED
Analysis software windows XP/Vista/Win7/8/10

Specifications
Memory	51840 readings
Measuring rate	1sec. to 1h
Measurement Range	0 to 1999W/m^2
Measurement Max. Resolution	1W/m^2
Accuracy	±5% or ±10W/m^2

EMC
EN: 61326



Model 185

Size(HxWxD): 145mm x 35mm x 30mm **Weight:** 49g **Accessories :** 3.6V Lithium battery, software and clamshell.

DT-174B
Temperature/Humidity & Air Pressure Datalogger



Model 174B

EMC
EN: 61326



Features
Alarm setup and indication
Recording and low battery indication
Manual and automatic start mode
USB port for data traffic and power supply
Status indication via Red/Yellow LED and Green LED

Specifications
Data Memory	10000	
Sampling rate	1 min to 18 hours	
Data output	USB	
Temperature		
Range	-40~70ºC/-40~158ºF	
Resolution	0.1ºC/0.1ºF	
Accuracy	40 to 70ºC/104 to 158ºF	±2ºC/3.6ºF
	0 to 40ºC/32 to 104ºF	±1ºC/1.8ºF
	-40 to 0ºC/-40 to 32ºF	±2ºC/3.6ºF
Humidity		
Range	0~100%RH	
Resolution	0.1%RH	
Accuracy	0 to 20 and 80 to 100%	±5%
	20 to 40 and 60 to 80%	±3.5%
	40 to 60%	±3.5%
Air Pressure		
Range	950~1050hPa	
Resolution	0.1hPa	
Accuracy	±0.25%FSO(25 ºC)	
Repeatability	±0.2%(Max ±0.3%FSO)	
Linearity/Hysteresis	±0.24%FSO	
Temperature coefficient	±0.1%FSO	

Size(HxWxD): 145mm x 35mm x 30mm **Weight:** 49g
Accessories : 3.6V Lithium battery, software and clamshell.

DT-179 Carbon Monoxide Datalogger

Features
Alarm setup and indication
Recording and low battery indication
Manual and automatic start mode
USB port for data traffic and power supply
Status indication via Red/Yellow LED and Green LED
Analysis software windows 98/2000/XP/Vista/7

Specifications
Memory	32000 readings
Measuring rate	2sec. to 24h
Measurement Range	0 to 1000PPM
Measurement Resolution	1PPM
Accuracy	±5% or ±10PPM
Warm up period	Less than 2 seconds
Sensor type	Stabilized electrochemical Gas-specific (CO)
Typical sensor life	3 years

Size(HxWxD): 145mm x 35mm x 30mm **Weight:** 49g
Accessories : 3.6V Lithium battery, software and clamshell.

Model 179

EMC
EN: 61326



DT-3898A
Vibration Tester



Model 3898A

EMC
EN: 61326

A handheld vibration tester is composed of an acceleration sensor and a digital display circuit. It is mainly used to measure the vibration acceleration, velocity and displacement of mechanical equipment. This device has the advantages of wide measurement range, simple operation and convenient portability. It is an ideal inspection tool for vibration inspection of equipment in the power, metallurgy and petrochemical industries.

Features

2.8-inch TFT color display, which can display measurement values and status more clearly
It can measure acceleration, speed and displacement
Adjustable high and low vibration frequencies
Rechargeable lithium battery
High sensitivity sensor, with precise measurement
Equipped with long and short probes, suitable for measurements in different places
Simple design, compact structure, easy to carry and use

Specifications

Function	Range	Frequency	Resolution	Accuracy
Acceleration	0.1~199.9m/s2 peak (RMS ·√2)	LO:10Hz~1kHz HI:1kHz~3kHz	0.1m/s2 0.1m/s2	±(5%+2d) ±(10%+5d)
Velocity	0.1~199.9mm/s (RMS)	10Hz~1kHz	0.1mm/s	±(5%+2d)
Displacement	0.1~199.9m/s2 (P-P, RMS ·√2)	10Hz~1kH	0.001mm	±(5%+2d)
Display	2.8-inch color screen			
Battery	Li-ion Polymer Battery			
Charging port	Type C			
Charging temperature	0~45°C			
operating temperature	-10~50°C			
storage temperature	-20~60°C			

Size(HxWxD): 68mm x 45mm x 185mm
Weight: 230g

DT-3898 Vibration Meter



Model 3898

EMC
EN: 61326

Applications for all industrial machinery vibration monitoring. The level of vibration is a useful guide to machine condition. Poor balance, misalignment & looseness of the structure will increase the vibration level, it is a sure sign that the maintenance is needed.

Features

Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
Professional vibration meter supply with vibration sensor & magnetic base, full set.
Velocity measuring range 200 mm/s.
Acceleration measuring range 200 m/s^2.
RMS & Peak measurement.
Wide frequency range.
Data hold button to freeze the desired reading.
Memory function to record maximum and minimum reading with recall.
Super large LCD display.
Microcomputer circuit, high performance.
Auto shut off saves battery life & built-in low battery indicator.

Specifications

Range	Velocity :200 mm/s : 0.5 to 199.9 mm/s
	Acceleration :200 m/s^2 : 0.5 to 199.9 m/s^2
Frequency range	10 Hz to 1 KHz
Accuracy	± (5 % + 2 d) reading @80 Hz, 160 Hz.

Size(HxWxD): 160mm x 62mm x 21mm
Weight: 200g
Accessories : 9V battery.

DT-178A/178B
3-Axis Vibration Datalogger/ Temperature and Humidity Datalogger

Features

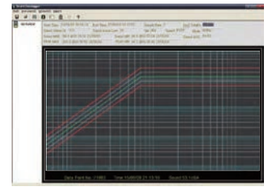
	178A	178B
Records 3-axis shock, Build-in accelerometers	*	*
Measures dynamic and static acceleration	*	*
Real-time operation, Freefall detection mode	*	*
User settable trigger levels, Real-Time FFT	*	*
High speed download(USB2.0)	*	*
Vibration, humidity and temperature Datalogger		*

Specifications

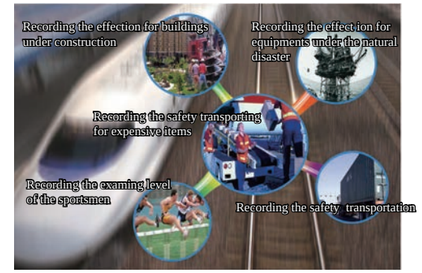
	178A	178B
Acceleration Sensor:MEMS Semiconductor	*	*
Acceleration Sensor sampling Rate:256Hz	*	*
Acceleration Range:±18g	*	*
Acceleration Resolution:0.00625g	*	*
Acceleration Accuracy:±0.5g	*	*
Non-Linearity:±1%	*	*
Bandwidth:Approx. 0 ~ 60Hz	*	*
Trigger Range: 0 to 18g (XYZ magnitude)	*	*
Temp & Humidity Range:-40 to 70ºC/-40 to 158ºF 0 to 100%RH		*
Temp & Humidity Resolution:0.1%RH/0.1ºC/ºF		*
Temp & Humidity Accuracy:±2%RH/1ºC/ºF		*
Sampling Rate:1sec. to 24hours	*	*
Memory:8Mbit FLASH (Memory for 504126 samples, about 168042 samples/.axis for x, y and z axis seperately)	*	*

Size(HxWxD): 130mm x 30mm x 25mm **Weight:** 20g
Accessories : 3.6V Lithium battery, software and clamshell.

178A is engineered to record acceleration data of vibration, it will record and time 3-axis vibrations and peaks to provide a history of shock/vibration conditions. and it will record the time when freefall happens.
It measures and computes real-time spectral data using an FFT(Fast Fourier Transform) from 0 to 60 Hertz.
178B is vibration, humidity and temperature Datalogger



EMC
EN: 61326





Model 178A

DT-188V/188GW Vibration & Temperature Sensor with Gateway

Wireless vibration & temperature MEMS sensor for remote condition monitoring with Wi-Fi /NB-iOT

The 188V Vibration & Temperature Sensor has the building blocks that allow maintenance and reliability teams to add remote vibration monitoring to assets and minimize unnecessary routes, maximize uptime and save time. With a frequency range of 10 to 1,000 hertz (Hz), the vibration sensor screens assets and notifies users of abnormalities caused by critical faults such as imbalance, misalignment, looseness and bearing wear to provide a warning for potential equipment failure. Using APP software, receive alarms on your smart device or computer within seconds of an abnormality and prevent downtime.

188V Features

Wireless vibration & temperature MEMS sensor for remote condition monitoring
Frequency response range: 10 to 1,000 Hz
Temperature response range (PT100 Type thermocouple sensor): -20 ~ 200°C (-4 ~392°F)
Data visualization: Vibration trend for all three axes and temperature trending
Alarms: Auto-generated using Vibration Severity scale to keep you updated on machine abnormalities
Remote monitoring: View continuous stream of real-time and historical vibration data from remote assets
Data capture rate: 1 data point every 90 seconds
Bluetooth type: Low Energy 4.1
IP Rating: IP 67

Specifications

Vibration Range	Sensitivity range	±32 g
	Frequency range	10 Hz to 1000 Hz
	Sampling rate	25600 Hz
Temperature Range	-20°C ~ 200°C (-4 °F~392°F)	

The 188GW Gateway aggregates 188V Vibration Sensor data and streams it to the cloud for continuous condition monitoring.

188GW Features

Aggregates data via Bluetooth of up to 20 the 188V Vibration Sensors
Streams the sensor data to the APP software via a Wi-Fi connection
Remote monitoring: View continuous stream of real-time and historical vibration data from remote assets
Bluetooth type: Low Energy 4.1
IP Rating: IP 67
Wi-Fi / NB-ioT connection required (Optional)
110V/220V AC power required

Size(HxWxD): 61mm x 20mm x 19mm
Weight: 50g



Model 188V

EMC
EN: 61326

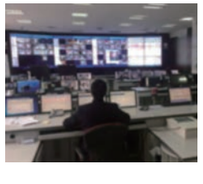




Model 188GW

Wi-Fi / NB-ioT connection required (Optional)





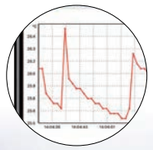


CFM CMM Air Flow | %H2O | Temperature | 0~100% RH | dB 35~100 dB

Bluetooth + APP
Environment Probes App
for free download

Meterbox Probes
iOS 8.0 or later
Android 5.0 or later





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CFM CMM Air Flow | %H2O | Temperature | 0~100% RH | dB 35~100 dB

DT-72+ series Environment Meter Probe the whole series are equiped with LCD display.

DT-72+ series Environment Meter Probe are professionally designed with completely modern new outlooking. The whole series are equipped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

CE
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Bluetooth

DT-72MC+ Pinless Moisture Meter Specifications

Measuring Range	0.0 to 100.0
Penetration Depth	20 to 40mm
Resolution	0.1

DT-72A+ Vane Anemometer Specifications

Function	Range	Resolution	Accuracy
m/s(meter per second)	0.4 to 25.0m/s	0.1m/s	±3.5%±0.2m/s
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/°F	±0.8°C, (-20 ~ 0°C) ±0.5°C, (0 ~ 60°C)
Relative Humidity	0 to 100%RH	0.1%RH	±3.5%RH @20~80%RH ±5%RH @0~20%RH&80~100%RH

DT-72H+ Hot Wire Anemometer Specifications

Function	Range	Resolution	Accuracy
m/s(meter per second)	0.00 to 30.00m/s	0.01m/s	±5%±0.1m/s , (0~5m/s)
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/ °F	±0.8°C , (-20 ~ 0°C) ±0.5°C , (0 ~ 60°C)
Relative Humidity	0 to100%RH	0.1RH	±3.5%RH @20~80%RH ±5%RH @0~20%RH&80~100%RH

DT-72S+ Sound Level Meter Specifications

Function	Range	Resolution	Accuracy
Frequency	31.5Hz~8kHz	0.1Hz	
Level	30dB~130dB	0.1dB	±1.5db(ref94dB@1kHz)

DT-72L+ Light Meter Specifications

Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.1Fc	±4%±10d(<10,000Lux)
Measuring Rate	1 times/second		

Size(HxWxD): 110mm x 30mm x 20mm **Weight:** 180g
Accessories : 3x1.5V "AAA" batteries.



Model 72L+

Model 72A+



Model 72T1+

Model 72TH+



Model 72H+

DT-72TK+/ 72VP+/ 72GP+/ 72DP+

Environment Meter Probes with Bluetooth & LCD Display





Model 72TK+



Model 72GP+



Model 72VP+



Model 72DP+

CE

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EN: 61326

DT-72+ series Environment Meter Probe the whole series are equiped with LCD display.

DT-72+ series Environment Meter Probe are professionally designed with completely modern new out-looking. The whole series are equipped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

DT-72TK+ Thermocouple Thermometer Specifications

Function	Range	Resolution	Accuracy
Temperature	-200~1372°C (-328~2501°F)	0.1°C	Above -100°C(-148°F): ±[0.05%rdg +1°C (1.8°F)] Below -100°C(-148°F): ±1.5°C (2.7°F)
Accuracy: meter only - thermocouple error not included, test at 23±5°C.			

DT-72GP+ High-pressure measuring instrument Specifications

Function	Range	Resolution	Accuracy
Pressure	-1~+60bar	0.01bar	±0.5%rdg

DT-72VP+ Vacuum probe Specifications

Function	Range	Resolution	Accuracy
Micron	0 to 20000	1(0 to 1000) 10(1000 to 2000) 100(2000 to 5000)	±10+10%reading (100 to 1000)
Pa	0 to 26666	1	±(1.3+10%reading) (13 to 133)

DT-72DP+ Differential Pressure Meter Specifications

Measurng Range	-150 to 150hPa
Accuracy	±0.3%FSO (25°C)
Resolution	0.01hPa

Size(HxWxD): 110mm x 30mm x 20mm **Weight:** 180g
Accessories : 3x1.5V "AAA" batteries.



Bluetooth + APP
Environment Probes App
for free download

DT-72T1+ Thermometer Specifications

Temperature Range	-50 to 150°C/-58 to 302°F
Accuracy	±1.0°C/1.8°F
Resolution	0.1°C/°F

DT-72TH+ Temperature & Humidity Meter Specifications

Function	Range	Resolution	Accuracy
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/ °F	±1°C/2°F
Relative Humidity	0 to100%RH	0.1RH	±3.5%RH @20~80%RH ±5%RH @0~20%RH&80~100%RH

DT-72I+ Infrared Thermometer Specifications

Function	Range	Resolution	Accuracy
IR Temp. Range	-30 to 250°C -22 to 482°F	0.1°C/ °F	±1.5°C ±1.5 %
D:S	10:1		

DT-72MR+ Contact Hygrometer Specifications

Wood moisture (contact and probe)	
Range	6 to 99.9
Accuracy	±2 (6% to 60%), ±4 (60% to 99.9%)
Resolution	0.1

Size(HxWxD): 110mm x 30mm x 20mm **Weight:** 180g
Accessories : 3x1.5V "AAA" batteries.



Model 72MR+



Model 72MC+



Model 72S+

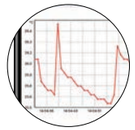


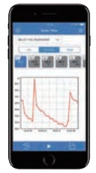
Model 72I+

DT-72 series Environment Meter Probe are professionally designed with modern outlooking. The whole series are equipped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

CFM CMM Air Flow | %H_2O | Temperature | 0~100% RH | dB 35~100 dB

Made for iPod iPhone iPad





CE
EMC
EN: 61326

Bluetooth + APP
Environment Probes App for free download

Meterbox Probes

iOS 8.0 or later
Android 5.0 or later



DT-72T1/72DP/72A/72H/72TH/72S/72I/72MC/72MR/72L
Environment Meter Probes with Bluetooth
CEM

DT-72T1 Thermometer Specifications

Temperature Range	-50 to 150°C/-58 to 302°F
Accuracy	±1.0°C/1.8°F
Resolution	0.1°C/°F

DT-72DP Differential Pressure Meter Specifications

Measurng Range	-150 to 150hPa
Accuracy	±0.3%FSO (25°C)
Resolution	0.01hPa

DT-72MC Pinless Moisture Meter Specifications

Measuring Range	0.0 to 100.0
Penetration Depth	20 to 40mm
Resolution	0.1

DT-72MR Contact Hygrometer Specifications

Wood moisture (contact and probe)	
Range	6 to 99.9
Accuracy	±2 (6% to 60%), ±4 (60% to 99.9%)
Resolution	0.1

DT-72A Vane Anemometer Specifications

Function	Range	Resolution	Accuracy
m/s(meter per second)	0.4 to 25.0m/s	0.1m/s	±3.5%±0.2m/s
Air Temperature	-20 to 60°C	0.1°C/°F	±0.8°C, (-20 ~ 0°C)
	-4 to 140°F		±0.5°C, (0 ~ 60°C)
Relative Humidity	0 to 100%RH	0.1%RH	±3.5%RH @20~80%RH ±5%RH @0~20%RH&80~100%RH

DT-72H Hot Wire Anemometer Specifications

Function	Range	Resolution	Accuracy
m/s(meter per second)	0.00 to 30.00m/s	0.01m/s	±5%±0.1m/s , (0~5m/s)
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/ °F	±0.8°C , (-20 ~ 0°C) ±0.5°C , (0 ~ 60°C)
Relative Humidity	0 to100%RH	0.1RH	±3.5%RH @20~80%RH ±5%RH @0~20%RH&80~100%RH

DT-72TH Temperature & Humidity Meter Specifications

Function	Range	Resolution	Accuracy
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/ °F	±1°C/2°F
Relative Humidity	0 to100%RH	0.1RH	±3.5%RH @20~80%RH ±5%RH @0~20%RH&80~100%RH

DT-72I Infrared Thermometer Specifications

Function	Range	Resolution	Accuracy
IR Temp. Range	-30 to 250°C -22 to 482°F	0.1°C/ °F	±1.5°C ±1.5 %
D:S	10:1		

DT-72S Sound Level Meter Specifications

Function	Range	Resolution	Accuracy
Frequency	31.5Hz~8kHz	0.1Hz	
Level	30dB~130dB	0.1dB	±1.5db(ref94dB@1kHz)

DT-72L Light Meter Specifications

Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.1Fc	±4%±10d(<10,000Lux)
Measuring Rate	1 times/second		

Size(HxWxD): 110mm x 30mm x 20mm **Weight:** 180g
Accessories : 3x1.5V "AAA" batteries.

CE
EMC
EN: 61326

Bluetooth


Model 72DP


Model 72MC


Model 72H


Model 72T1


Model 72L


Model 72A


Model 72MR


Model 72S


Model 72I


Model 72TH

Temperature | 0~100% RH | 35~130 dB | Light (LUX/FC)



DT-90/91/92/93/95/96/98 series Mini Environment Meters are professionally designed with completely modern new outlooking. The whole series are equiped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

Made for iPod iPhone iPad

Bluetooth

DT-90 Mini Anemometer

Specifications		
Function	Range	Accuracy
m/s(meter per second)	0.40~25.00	±3.5% ±0.20m/s
ft/min(feet per minute)	80~2980	±3.5% ±40ft/min
km/h(kilometers per hour)	1.4~54.0	±3.5% ±0.8km/h
MPH(miles per hour)	0.9~33.0	±3.5% ±0.4MPH
Knots(nautical miles per hour)	0.8~29.0	±3.5% ±0.4knots
Air Temperature	-10 to 60℃(14 to 140℉)	± 2.0℃(4.0℉)
Bluetooth interface for easy data transfer		

DT-91 Mini Temperature & Humidity Meter

Specifications			
Function	Range	Resolution	Accuracy
Temperature	-20 to 60℃/-4 to 140℉	0.1℃/℉	±0.5℃/0.9℉
Humidity	0 to 100%RH	0.1%RH	±3%RH
Bluetooth interface for easy data transfer			

DT-92 Mini Light Meter

Specifications			
Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.01Fc	±5%±10d(<10,000Lux)
Measuring Rate	1.5 times/second		
Bluetooth interface for easy data transfer			

DT-93 2 in 1 HCHO & TVOC Meter

Specifications			
Function	Range	Resolution	Accuracy
HCHO	0.00 to 5.00mg/m^3	0.01mg/m^3	±5%F.S
TVOC	0.00 to 9.99mg/m^3	0.01mg/m^3	±5%F.S
Bluetooth interface for easy data transfer			

DT-95 Mini Sound Level Meter

95 Mini Sound level meter have a wide dynamic range from 35 to 130dB. It has different frequency weighting A and C to respond to human sense or machine monitoring purposes.

Specifications		
Function	Range	Accuracy
Sound Level	35 ~ 130dB	±3.0dB(ref 94dB@1kHz)
Frequency	31.5 ~8kHz	
Frequency Weighting	A，C	
Bluetooth interface for easy data transfer		

DT-98 Mini Pinless Moisture Meter

Specifications	
Measuring Range	0.0~100.0 %
Penetration Depth	20~40mm
Resolution	1

Features
Quickly indicate the moisture content of materials
CM % measured function
Depth of penetration about 20-40mm with alarms.
Measure and HOLD Function
MAX/MIN display Function
Programmable moisture alarms
Auto Power Off & low battery indication
White Backlit LCD Display

Size(HxWxD): 185mm x 55mm x 38mm
Weight: 139g
Accessories : 9V battery, Clamshell.
3.7V Li-battery (DT-96)

EMC
EN: 61326



Model 90



Model 95

Meterbox Pro



Model 92



Model 93







Model 91



Model 98

Multifunction EMF Meter

EMF-90/91 is a three-axis high-frequency electromagnetic wave tester. It adopts advanced high-frequency sensor technology and can be applied to high-frequency electromagnetic field test base, mobile phone, wireless network and other electronic wireless products.

Features

- Test 50M to 8GHZ frequency range
- three-axis high-frequency Measurement
- Data-logger function
- Auto Power Off
- Data transfer to PC via USB(CSV or EXCEL files)
- Adjustable alarm threshold and memory function



EMC
EN: 61326

Model EMF-91

Specifications			
RF Strength		EMF-90	EMF-91
Directivity characteristic	Isotropic. three-axis	*	*
Measuring mode	High frequency electric field	*	*
Display resolution	0.1mV/m, 0.1uW/m², 0.001uW/cm²	*	*
Frequency range	50MHz~8GHz	*	*
Measuring range	1uW/m²~26.52W/m², 0uW/cm²~2.652mW/cm², 20mV/m~100V/m	*	*
Dynamic range	45dB	*	*
Frequency response	±1.0dB (50MHz to 1.9GHz), ±2.4dB (1.9GHz to 8GHz)	*	*
Overload limit	2.652mW/cm² (100V/m)	*	*
Electric Fields			
Measurement method	Uniaxial		*
Measuring mode/ Display resolution	Low frequency electric field/ 1V/m		*
Frequency range/ Measuring range	50Hz ~ 60Hz/ 50V/m to 2000V/m		*
Magnetic Fields			
Measurement method	Uniaxial		*
Measuring mode/ Display resolution	magnetic field/ 0.01uT,0.1mG		*
Frequency range/ Measuring range	50Hz ~ 60Hz/ 0mG~2000mG, 0uT~200uT		*

DT-93U can measure the concentration of HCHO & TVOC & temperature & humidity accurately. The device has data recording function, it can automatically record the measurement data and generate readable files according to the sampling time and interval set by users. Users can directly view the data in the device or export the data to the computer through USB. A high-capacity lithium battery inside is to ensure long time measurement, it also has sleep mode function and automatic shutdown function.

Features

- Detecting HCHO & TVOC
- Data-logger function
- Chart function
- Screen brightness settings
- Quick Response
- Sleep mode
- Max/Min/AVG mode
- Auto power off
- Data transfer to PC via USB (CSV or EXCEL files)

Specifications			
	Range	Accuracy	Resolution
HCHO detection	0.00~5.00ppm	±5% F.S	0.01ppm
TVOC detection	0.00~9.99ppm	±5% F.S	0.01ppm
Temperature	-10 to 60°C /14 to 140°F	±0.5°C (±1°F)	0.1°C /°F
Humidity	0 to 100%RH	±3%RH	0.1%RH

DT-97U meter is a sort of exquisite concise and efficient detector launched by CEM recently, which is integrated with CO2 、CO、 temperature and humidity detection function. This meter has adopted high-precision CO2 and CO Sensor which can detect the CO2 and CO accurately and sensitively. The device is equipped with an accurate sensor that can detect the temperature and humidity at current environment. The operation is very simple. it is very convenient to carry, so that we can check air quality from time to time.

Features

- High precision CO2 and CO sensors
- Data-logger function
- Data transfer to PC via USB(CSV or EXCEL files)
- Quick Response
- Max/Min/AVG mode
- Auto Power Off

Specifications			
	Range	Accuracy	Resolution
CO_2 Measurement	0 to 9999ppm	±3% of reading ±75 ppm	1ppm
CO Measurement	0 to 1000ppm	±5% F.S	1ppm
Temperature	0 to 50°C /32 to 122°F	±2°C (±4°F)	0.1°C /°F
Humidity	0 to 100%RH	±5%RH@0~20%RH & 80~100%RH ±3.5%RH@20~80%RH	0.1%RH

DT-93HW is a Mini Hot Wire anemometer, which can measure air velocity, volume flow, temperature .With the combination of hot wire and precise digital sensor, it can be measured quickly and accurately even at low wind speed.

Features

- Quick response
- Max/Min/AVG mode
- Data transfer to PC via USB(CSV or EXCEL files)
- Telescopic probe facilitates user measurement
- Auto power off
- Data-logger function

Specifications			
	Range	Accuracy	Resolution
Air Velocity Measurement	0.00 to 30.00m/s	±0.10±5%m/s(0 to 5m/s) ±0.30±5%m/s(5 to 30m/s)	±0.01m/s
Temperature Measurement	0 to 50°C /32 to 122°F	±1°C (±2°F)	0.1°C/°F

DT-96 Mini Particle Counter

Specifications		
Function	Channel / Range	Accuracy
Air Temp Range	0 to 50°C/32 to 122°F	±1°C/2°F
Humidity Range	0 to 100%RH	±5%RH@0~20%RH & 80~100%RH ±3.5%RH@20~80%RH
Bluetooth interface for easy data transfer		

Size(HxWxD): 185mm x 55mm x 38mm
Weight: 139g
Accessories : 3.7V Li-battery



Model 93HW



Model 97U



Model 93U



Model 96

HC-01
Smart HCHO Monitor



Model HC-01

After the Smart HCHO Monitor is connected to the mobile phone through USB, it will run automatically. The main screen on the APP will show measuring datas include HCHO/TVOC/Temperature/Humidity at real time. The app will prompt the pollution level and provide some advice to solve the pollution. The app will automatically carry out statistical analysis and show the monitoring curve.

Features

- The device can work only by plugging into the phone without battery
- Show monitoring curve at real time
- Analyze the data and prompt pollution level automatically
- Continuously recording and single recording
- History data checking, statistical analysis and data export
- Provide reasonable suggestions for removing the HCHO

Specification

Function	Range	Resolution	Accuracy
HCHO	0.00~5.00ppm	±5% F.S	0.01ppm

Size(HxWxD): 64mm x 33mm x 14mm
Weight: 100g

DT-82/83/85A/85C/86/86B Mini Environment Meters



DT-82 Mini Anemometer

Specification

Function	Range	Accuracy
m/s(meter per second)	0.40~25.00	±3.5% ±0.20m/s
ft/min(feet per minute)	80~2980	±3.5% ±40ft/min
km/h(kilometers per hour)	1.4~54.0	±3.5% ±0.8km/h
MPH(miles per hour)	0.9~33.0	±3.5% ±0.4MPH
Knots(nautical miles per hour)	0.8~29.0	±3.5% ±0.4knots



CE
EMC
EN: 61326



DT-85A/85C Mini Sound Level Meter

Specification

Function	Range	Accuracy	85A	85C
Sound Level	35 ~ 130dB	±3.0dB (ref 94dB@1kHz)	*	*
Frequency	31.5 ~8kHz		*	*
Frequency Weighting			A	C





DT-83 Mini Temperature & Humidity Meter

Specification

Function	Range	Resolution	Accuracy
Temperature	-20 to 60ºC/ -4 to 140ºF	0.1ºC/ºF	±0.5ºC/0.9ºF
Humidity	0 to 100%RH	0.1%RH	±3%RH





DT-86/86B Mini Light Meter

Specification

Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.01Fc	±5%±10d (<10,000Lux)
Measuring Rate	1.5 times/second		



Size(HxWxD): 165mm x 54mm x 34mm(82) 146mm x 54mm x 34mm(83)
128mm x 54mm x 34mm(85A/85C) 157mm x 54mm x 34mm(86)
Weight: 139g(82), 138g (83), 131g (85A/85C), 138g (86),

Accessories :
9V battery, Clamshell.

DT-3851/3852
Sound Level Meters



1.4dB Accuracy

Level range: 30~130dB

CE
EMC
EN: 61326

3851/3852 Sound Level Meters are designed for noise project, quality control, illness prevention & cure and all kinds of environmental sounds measurements. It is applied to the sounds measurement at factory, school, office, traffic access and household etc.

Features

	3851	3852
This unit confirms to the IEC61672-1 class 2 for Sound Level Meters	*	*
MAX & MIN measurements	*	*
Overrange display	*	*
Underrange display	*	*
A & C Weighting	*	*
FAST & SLOW response	*	*
Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder	*	*
Memory for 32700 readings		*
Datalogger function		*
Adjustable Alarm-Levels		*



Time weighting & Frequency weighting, Current reading



Analog AC/DC outputs



Model 3852

Specifications

Standard applied	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB
Frequency range	31.5Hz ~ 8kHz
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med:50dB~100dB
	Hi:80dB~130dB Auto:30dB~130dB
Time weighting	FAST (125mS), SLOW (1s)
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Display Update	2 times/sec
Analog output	AC/DC outputs, AC=1Vrms, DC=10mV/dB



Size(HxWxD): 230mm x 60mm x 30mm (3851/3852)
Weight: 310g (3851/3852)

Accessories :
Battery, screwdriver, audio plug, windscreen, software, USB cable, tripod and power supply and gift box with carrying case.




Model 73A


Model 73L


Model 73S


Model 73TH


Model 73G


Model 73C

DT-73A Mini anemometer,which can measure air velocity and temperature

Features

- Quick response
- Wind power classification
- Max/Avg mode
- Low power display
- Auto power off

Specifications

	Range	Accuracy	Resolution
Air Velocity Measurement	0.6 to 25m/s	±5% ±0.5m/s	0.1m/s
Temperature Measurement	-10 to 50°C/14 to 122°F	±2°C(±4°F)	0.1 °C/°F

DT-73L Light meter is a precision instrument that used to measure illuminance(Lux,footcandle) in the field

Features

- Silicon Photo Diode Sensor with a Spectral Response Filter Fully Cosine Corrected.
- 4 Measuring Ranges
- High accuracy and rapid response

Specifications

	Range	Accuracy	Resolution
Illumination Measurement	0-200kLux/ 0-20kFC	±4% ±10d (<10,000Lux) ±8% ±10d (>10,000Lux)	0.1Lux/0.01FC

DT-73S is a mini noise sound level meter

Feature

- Auto Power Off
- Low power consumption
- MAX/MIN mode
- FAST/SLOW mode
- Backlight Display
- A Frequency Weighting

Specifications

Function	Range	Resolution	Accuary
Frequency	31.5Hz~8kHz		
Level	30 ~ 130dB	0.1dB	±1.5dB(@1kHz, Standard Sound Source)

DT-73TH is a device measures Humidity & Air Temperature

Specifications

	Range	Accuracy	Resolution
Temperature Measurement	-20-60°C/-4°F-140°F	±1°C/±1°F	0.1°C/0.1°F
Humidity Measurement	0-100%RH	±4%RH	0.1%RH

DT-73G is a real-time measurement of HCHO and TVOC

Specifications

	Range	Accuracy	Resolution
HCHO	0.00 to 5.00mg/m^3(or PPM)	±5%F.S	0.01mg/m^3(or PPM)
TVOC	0.00 to 9.99mg/m^3(or PPM)	±5%F.S	

DT-73C Carbon Monoxide Meter detects the presence of carbon monoxide (CO)

Specifications

	Range	Accuracy	Resolution
CO	0 to 1000PPM	±5% ±10PPM	1PPM

DT-73T is a simple measuring TDS tester.

DT-73T Specifications

TDS measuring Range	0~ 9990PPM
Basic accuracy	±2%F.S
Resolution	1PPM

Size(HxWxD): 103mm x 54mm x 28mm **Weight**: 139g
Accessories : 3x1.5V AAA battery, Clamshell.

73MC Pinless Moisture Meter with pinless depth up to 0.75".

DT-73MC Specifications

Measuring Range	0 ~ 99.9
Accuracy	±5%RH
Pinless Depth	up to 0.75"(19mm)
Resolution	0.1

73E is a high-frequency electromagnetic wave tester. It adopts advanced high-frequency sensor technology and can be applied to high-frequency electromagnetic field test base, mobile phone, wireless network and other electronic wireless products.

Features

- Test high frequency range
- Auto Power Off
- Adjustable alarm threshold and memory function

Specifications

Measurement Range	20mV/m to 200V/m
Absolute Tolerance (@1V/m 10MHz)	±1.0dB
Frequency Response	± 1.0dB (10MHz to 1.9 GHz) ± 2.4dB (1.9GHz to 8GHz)
Isometric Deviation	±1.0dB @ f>10 MHz
Resolution	0.1mV/m

73AL is simple to use, rapid response tester that are used to determine whether or not a person has any alcohol in their breath.

Features

- Red LED alarm
- Auto power off
- Fuel cell sensor is high accuracy and reliability
- Five detection unit selectable (mg/L,mg/100ml,g/L,%BAC,‰BAC), Alarm level adjustable

Specifications

Detection Range	Accuracy	Resolution	Repeatability
0.000mg/L ~1.500mg/L	C<0.400 : ±0.020mg/L	0.001mg/L	C<0.400 : 0.007mg/L
	0.400≤C<1.000 : ±5%		0.400≤C<1.000 : 1.75%
	C≥1.000 : ±20%		C≥1.000 : 6%

73MR is a conductivity moisture instrument designed for use in wood, used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar).

Features

- Large LCD display
- Readings with Moisture Probe or Hammer Electrode
- Readings with Integral electrod Pins

Specifications

Measuring principle	Electrical resistance
Electrode length	8mm
Electrodes	Integrated, replaceable
Measuring range	Wood: 6-99.9%
Display Accuracy	Wood: ±2% (6%~60%), ±4% (60%~99%),
Temperature measuring	0-60ºC

73P is a Pressure meter simultaneously with an easy-to-read, large, backlit LCD display.

Features

- Pressure measurement provides Zero Adjust.
- MAX MIN and AVG measurement.

Specifications

Pressure Range	±5000Pa
Accuracy	±0.3%FSO (25°C)
Resolution	1Pa
Response Time	0.5 Seconds typical
Units	PSI /mbar/ inH$_2$O/ mmH$_2$O/ Pa

The 73I InfraRed Thermometer is a new models designed with lower cost. Check all types of A/C and heating systems.

Features

- 500ms quickest sampling time with 2% accuracy
- Large LCD screen shows readings in Fahrenheit or Celsius

Specifications

Range	-35ºC~250ºC/ -31ºF~482ºF
Accuracy	±2% ±2ºC/±3.6ºF
Resolution	0.1ºC/ºF
Response Time	Less than 500ms
D:S	8:1

EMC
EN: 61326


Model 73AL


Model 73E


Model 73MC


Model 73MR


Model 73T

Model 73I

Model 73P







CE
EMC
EN: 61326

Type K (T1) | Type K (T2) | Backlight

The 852A (single input)， 852B (dual inputs) and 852C (four inputs) contact thermometers offer fast response and laboratory accuracy. The 852B (dual inputs) is a microprocessor-based digital thermometer designed to use external type K/J/T thermocouples (temperature probes) as temperature sensors. These thermometers work with type K/J/T thermocouples and offer 0.1ºC/0.1ºF resolution over the entire measurement range. A rugged holster protects three models.

High Accuracy to 0.25%

Dual Temperature inputs (852B)

CE
EMC
EN: 61326



Model 852B

Features

	852A/852A-T/852A-P	852B/852B-T/852B-P	852C/852C-T/852C-P
External temp probe	J,K,T/Thermistor/ RTD	J,K,T/Thermistor/ RTD	J,K,T/Thermistor/ RTD
User Selectable ºC, ºF or K	*	*	*
0.1 ºC/0.1 ºF/0.1K resolution.	*	*	*
Type K/Type J input	Single	Dual	Dual
Max/Min/Avg and Data Hold	*	*	*
Differential Temperature	*	*	*
Hi/Lo Alarm(sound and audio)		*	*
Scan Function(T1,T2,T1-T2.....)	*	*	*
LCD display with backlight	*	*	*
Wide variety of interchangeable Thermocouple Probes	*	*	*
Auto Power Off	*	*	*
Low Battery	*	*	*
Adjustable sampling rate		- / 1 sec to 60 min	- / 1 sec to 60 min
USB interface		*	*
Memory reading		16,000	16,000
Bluetooth interface			*

Specifications

	852A/ 852B/852C	852A-P/ 852B-P/852C-P	852A-T/ 852B-T/852C-T
Temperature range	Type J:-328°F to 1832°F(-200°C to 1000°C) Type K:-418°F to 2501°F(-250°C to 1372°C) Type T:-418°F to 752°F (-200°C to 400°C)	-320°F to 1562°F (-200°C to 850°C)	-72°Fto 257°F (-40°C to 125°C)
Accuracy	±0.25% of reading + 2°F(1°C) (< 99.9°C/°F) ±0.25% of reading + 0.9°F(0.5°C) (> 99.9°C/°F)	±1°C/1.8°F(-99.9°C to 199.9°C) ±2°C/4°F beyond above range	±0.9°F(±0.5°C)
Respond time	Less than 300ms	Less than 300ms	Less than 300ms
Resolution	0.1°up 1000°, 1°over 1000°	0.1°up 1000°, 1°over 1000°	
User Calibration	0.10°C~5.0°C(0.10°F~9.0°F)	0.10°C~5.0°C(0.10°F~9.0°F)	0.10°C~5.0°C (0.10°F~9.0°F)

Size(HxWxD): 185mm x 65mm x 45mm
Weight: 248g

Accessories :
9V battery, Type-K Temperature probe
and gift box with carrying case.

Bluetooth



Model 852C-P

DT-855/855S
Sound Level Meter



Model 855

1.4dB Accuracy

Level range: 30~130dB

dB 30~130 dB | DATA LOGGER | Backlight

855/855S Sound Level Meters are designed for noise project, quality control, illness prevention & cure and all kinds of environmental sounds measurements. It is applied to the sounds measurement at factory, school, office, traffic access and household etc.

Features

	855	855S
This unit confirms to the IEC61672-1 class 2 for Sound Level Meters	*	*
MAX & MIN measurements	*	*
Overrange & Underrange display	*	*
A & C Weighting	*	*
FAST & SLOW response	*	*
Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder	*	*
Datalogger function	*	*
Adjustable Alarm-Levels	*	*
Memory for 32700 readings	*	*
Bluetooth interface to smartphone/PC.		*

Specifications

Standard applied	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB (@ 1kHz, standard sound source)
Frequency range	31.5Hz ~ 8kHz
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med:50dB~100dB Hi:80dB~130dB Auto:30dB~130dB
Time weighting	FAST (125mS), SLOW (1s)
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Display Update	2 times/sec
Analog output	AC/DC outputs, AC=1Vrms, DC=10mV/dB

Size(HxWxD): 248mm x 65mm x 45mm
Weight: 248g
Accessories :
9V battery, gift box and carrying case.

EMC
EN: 61326



Model 855S

1.4dB Accuracy

Level range: 30~130dB

Bluetooth



DT-853
Pinless Moisture Meter

Features

Quickly indicate the moisture content of materials
CM % measure function
Depth of penetration about 20-40mm with alarms.
Measure and HOLD Function
MAX/MIN display Function
Programmable moisture and humidity alarms
Auto Power Off & low battery indication
White Backlit LCD Display

Specifications

Measuring Range	0.0~100.0 %
Penetration Depth	20~40mm
Resolution	0.1

Moisture Table of Comparison

Construction material	Display	Moisture status
Gypsum	<30 digits	dry
	30 – 60 digits	at risk
	>60 digits	wet
Cement	<25 digits	dry
	25 – 50 digits	at risk
	50 – 75 digits	wet
	>75 digits	all wet

Size(HxWxD): 248mm x 65mm x 45mm
Weight: 248g
Accessories :
9V battery, gift box and carrying case.

0~100% RH | Backlight

Model 853

EMC
EN: 61326



DT-851/851A/851G Dew Point/Wet Bulb/Psychrometer

851/851A is a complete digital psychrometer and a very valuable HVAC diagnostic tool. As a psychrometer, it measures wet bulb(WB), dry bulb(DB), percent relative humidity(RH%), and dew point(DP).
Temperature/Humidity & Air Pressure(851A).
Psychrometer with Mixing ratio (851G)

Temperature | 0~100% RH | °C/°F | DP | WBT | Backlight

Features

	851	851A	851G
Dew Point Temperature measure	*	*	*
Wet Bulb Temperature measure	*	*	*
Dry Bulb Temperature measure	*	*	*
User selectable ºC & ºF	*	*	*
MAX, MIN, HOLD modes	*	*	*
Dual display with backlight	*	*	*
Automatic Power Off	*	*	*
Low battery display	*	*	*
Barometer, altitude, relative height measurement		*	*
Smart phone APP	*	*	*
Psychrometer with Mixing ratio			*
Bluetooth interface	*	*	*

Specifications

Function	Range	Resolution	Basic Accuracy	851	851A	851G
Humidity	0~100％RH	0.1％RH	±3％RH	*	*	*
Temperature	-20~60℃/-4~140℉	0.1℃/℉	±0.5℃/0.9℉	*	*	*
Dew Point Temp	-26~50℃/-14.8~122℉	0.1℃/℉	±1℃/1.8℉	*	*	*
Wet Buld Temp	-20~50℃/-4~122℉	0.1℃/℉	±1℃/1.8℉	*	*	*
hPa	700~1100 hPar(-20℃~70℃)	0.01hpa	±3hPa		*	*
Mixing ratio	0-999GPP (0-160g/kg)	1GPP				*

Size(HxWxD): 248mm x 65mm x 45mm
Weight: 248g
Accessories :
9V battery, gift box and carrying case.

Bluetooth

High Accuracy

Fast Response



High Quality Sensor

Model 851G



DT-856/856A

Light Meters with PC Interface

Backlight

856 light meter provides accurate display light level in terms of Foot Candles FC or LUX over wide range. Just turning the Function Switch to select the “lux” scale and setting the range to de-sired range, then removing the photo detector to light source in a horizontal position and reading the illuminance norminal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

856A LED light meter, measures light from visible luminaries equipped with white light LED, fluorescent, meatal halide, high-pressure sodium and incandescent sources.

EMC
EN: 61326



Model 856

Features

4000 Counts LCD dual display with timer function
Auto Ranging
Max./Min. and Data Hold
Auto Power Off
Low battery indication
User selectable FC/Lux
Capacity for data logging (99 readings)
Total accuracy: for C.I.E standard illuminate A(2856K)

Specifications

	856	856A
Measuring range	400,000Lux	40, 400, 4000, 40000, 400000 Lux 40, 400, 4,000, 40,000, FC
Accuracy	±5%±10d(<10,000Lux) ±10%±10d(>10,000Lux)	±3% (Calibrated to standard incandescent lamp 2856°K and corrected LED day while-light spectrum) . +/-6% other visible light source.
Max Resolution	0.1Lux/0.01Fc	0.01Lux/0.01Fc
Light Source Selecting	\	LED white day light:L1=0.99 Default standard light source A:L=1.00
USB interface	*	Option

Size(HxWxD): 185mm x 65mm x 45mm
Weight: 248g

Accessories :
9V battery, Photo Detector and USB cable, software, Carrying case and Gift box.

DT-857/857A

Hot Wire Anemometers

Made for iPod iPhone iPad

Temperature | Air Flow | Backlight | DATA LOGGER

857/857A Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 20m/s.

High Quality Sensor

EMC
EN: 61326

Features

	857	857A
Single-point and continuous data log options	*	*
Velocity alarm	*	*
LED backlight	*	*
Auto power off	*	*
Low-battery indication	*	*
Data hold	*	*
Probe sensor cover	*	*
Replaceable probe sensor		*



Model 857



857A
Replaceable probe

Specifications

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	0.1~20m/s	0.01m/s	±5%+0.03 m/s
ft/min(feet per minute)	20~3937ft/min	1ft/min	±5%+6ft/min
km/h(kilometers per hour)	0.3~72km/h	0.1km/h	±5%+0.1 km/h
MPH(miles per hour)	0.2~44.7MPH	0.1MPH	±5%+0.1 MPH
Air Temperature	-20～60℃ (-4～140℉)	0.1℃/0.1℉	0.5℃(0～45℃), 1.0℃ (rest of range) 1.0℉(32～113℉),2.0℉(rest of range）

Size(HxWxD): 185mm x 65mm x 45mm
Weight: 248g

Accessories : 3.7 Li battery, USB cable, software, Carrying case and Gift box.

DT-850 CFM/CMM Thermo-Anemometer

Temperature | Air Flow | Backlight

850 CFM/CMM Thermo-Anemometer remote sensor is the most popular model for HVAC applications.

EMC
EN: 61326



Model 850

Features

Display Air Flow (CFM/CMM), or Air Velocity plus Temperature & Max/Min/Avg value
Easy to set Area dimensions (cm^2) stored in the meter´s internal memory for the next power on
Resolution of 0.01m/sec
20 points average for Air Flow
Super large LCD Backlit Display
3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable
Low battery indication and Auto Power Off

Specifications

Air Velocity	Range	Accuracy
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s
ft/min(feet per minute)	80~5900	±3% ±40ft/min
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots
Air Temperature	-10 to 60ºC(14 to140ºF)	± 2.0ºC(±4.0ºF)
Air Flow	Range	Area
CFM	0-999900	0-999.9 ft^2
CMM	0-999900	0-999.9 m^2
Humidity	0~100%RH	±3.5%RH

Size(HxWxD): 185mm x 65mm x 45mm
Weight: 248g
Accessories :
9V battery and Anemo probe, Gift box with carrying case.

DT-858 Professional RTD Thermometer

A digital substitute for your mercury-in-glass thermometers. Accurate and repeatable to ±0.05°C over its full range of industrial temperature calibration. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, the intrinsically-safe, battery operated, portable reference thermometer is designed to go where you work.

EMC
EN: 61326

Temperature

High Accuracy

Fast Response

Bluetooth



Model 858

Features

Accuracy of ± 0.05 °C (± 0.09 °F) over full range
Two models to choose from (-50 °C to 160 °C)
User-configurable temperature Trend/Stability indicator
Display temperature in °C or °F
Optional data logging to internal memory
Percent battery-life and low-battery indicator
Bluetooth interface

Specifications

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01°C/°F	± 0.05 °C (± 0.09 °F)
Sensor type	100 Ω thin-film RTD		
Display units	°C, °F		

Size(HxWxD): 190mm x 75mm x 38mm
Weight: 320g

Accessories :
3.7V Li-ion battery and Sensor probe,
Gift box with carrying case.

Professional Multifunction Environment Meters



DT-859A/859B
Professional Multifunction Environment Meters

4 in 1 Multifunction Environment Meter

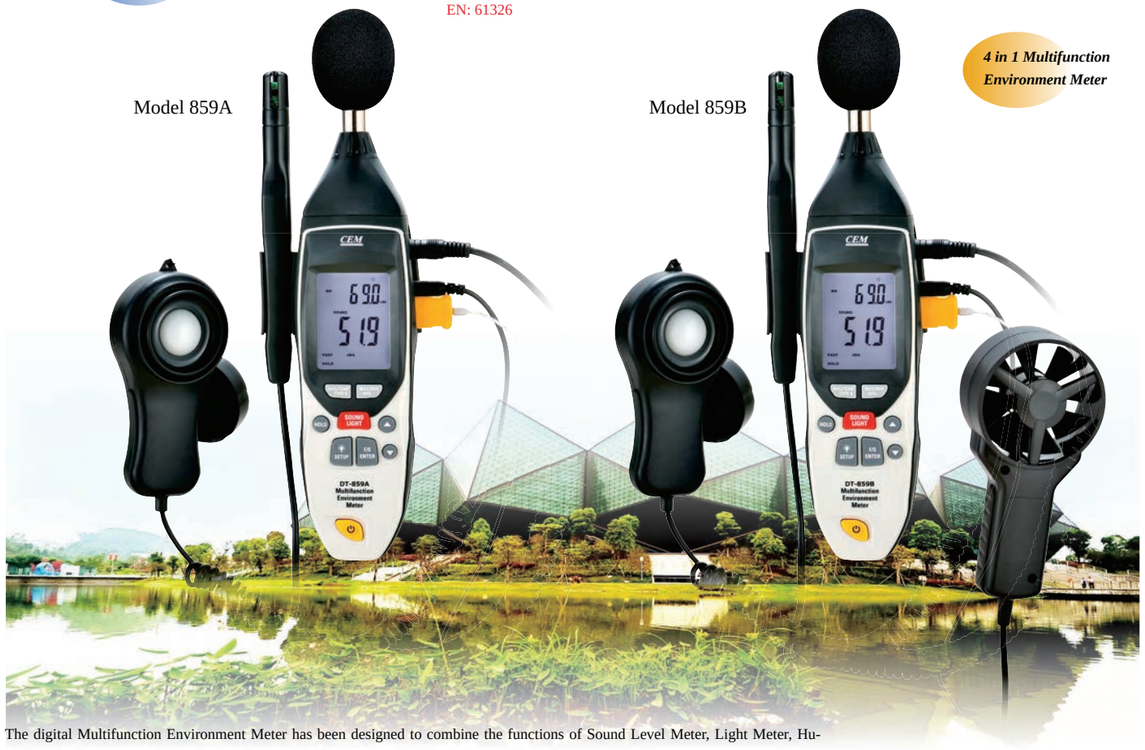
EMC
EN: 61326

CFM CMM Air Flow | Temperature | 0~100% RH | dB 35~100 dB | LUX FC Light (LUX/FC)

Model 859A

Model 859B

4 in 1 Multifunction Environment Meter



The digital Multifunction Environment Meter has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter Temperature Meter and CFM/CMM Thermo-Anemometer (859B 5in1). It is an ideal Multifunction Environment Meter Instrument with scores of practical applications for professional and home use.

- The Sound level function can be used to measure noise in factories, schools, offices, home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
- The Light function is used to measure luminance in the field. It is fully cosine corrected for the angularincidence of light. The light sensitive component used in the meter is a very stable, long, life silicon diode.
- The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.
- CFM/CMM Thermo-Anemometer is suitable for use in a wide variety of applications, including plant maintenance operations, environmental analysis, fume hood testing, and HVAC system assessment

Features

- Larger LCD display with backlight.
- Relative time clock on MAX MIN and AVG provides a time reference for measurement.
- Display Sound, Light, Type K Temperature plus Humidity & Temperature simultaneously.
- USB interface, USB to UART Bridge Controller..
- Low battery indication, and Auto Power Off mode (Sleep mode) increases.

Specifications

Function	Range:	Resolution	Accuracy	859A	859B
Type K Temp	-200°C to 1372°C (-328°F to 2501°F)	0.1°	Above -100°C (-148°F) ±[0.15%rgd+1°C(1.8°F)] Blow -100°C (-148°F) ±[0.5%rgd+2°C(3.6°F)]	*	*
Air Temp	-30°C~100°C (-22°F~199°F)	0.1°	±1°C/1.8°F	*	*
Humidity	0~100%RH	0.1%RH	±3.5%RH	*	*
Sound Level	30dB~130dB	0.1dB	±3.5dB	*	*
Light	20,200,2000, 20000Lux	0.01,0.1,1,10Lux	±5% ±10d	*	*
Anemo	0.40-30.00 m/s	0.01 m/s	±3% ±0.20 m/s		*
	80-5900 ft/min	1 ft/min	±3% ±40 ft/min		
	1.4-108.0 km/h	0.1 km/h	±3% ±0.8 km/h		
	0.9-67.0 MPH	0.1 MPH	±3% ±0.4 MPH		
	0.8-58.0 Knots	0.1 knots	±3% ±0.4 knots		
Air Flow	0-999,900 CFM	0.001 to 100 CFM	Accuracy is function of velocity and area		*
	0-999,900 CMM	0.001 to 100 CMM			

Size(HxWxD): 248mm x 65mm x 45mm
Weight: 365g

Accessories :
9V battery, K-type temperature probe, %RH probe, dB probe, Anemo probe, photo detector and gift box with carrying case.

Professional Multifunction Environment Meters



DT-869MAX
Professional Multifunction Environment Meters

CFM CMM
Air Flow

Temperature

0~100% RH

dB
35~100 dB

LUX FC
Light (LUX/FC)



This product is a portable environmental monitoring instrument that integrates pressure, temperature, wind speed, vibration, electromagnetic field (EMF), illumination, and noise detection functions. It has a novel and exquisite appearance, and is equipped with Bluetooth function, which facilitates real-time data synchronization with smart devices. This instrument adopts advanced sensing technology and can accurately measure and display various environmental parameters. It is widely used in various industries such as meteorological monitoring, industrial production, environmental detection, and construction engineering.

Features

- 3.2” TFT screen display.
- Multi functional integration: measurement of temperature and humidity, wind speed, illumination, noise, vibration, electromagnetic field, and atmospheric pressure, etc.
- Dual probe interface, supporting simultaneous measurement of any two probes.
- Support Bluetooth data transmission.
- Store 10000 measurements.
- Multi language interface.

Specifications

Function	Range	Resolution	Accuracy
Light Meter	0 to 400Klux/ 0-40KFc	0.1lux/Fc	±(3%rdg+6dgt) (<10KLux) ±(4%rdg+10dgt) (>10kLux)
Sound Level	30 to 130dB	0.1dB	±1.4dB(@94dB 1KHz)
Anemometer	0.4 to 30m/s	0.01m/s	±(3%+0.2)m/s
Temperature	-30 to 70°C (-22~158°F)	0.1°C/°F	±1°C/±1.8 °F
Humidity	0 to 100%RH	0.1%RH	±3.5%RH
Vibration	±32g	0.1m/s²	±5%
EMF	magnetic: 0.1 to 1000mG/ 0.01 to 100uT electric :1 to 2000V/m	magnetic: 0.1mG/0.01uT electric:1V/m	magnetic: ±10%+0.5uT ±10%+5mG electric: ±10%+10V/m
Atmospheric Pressure	80.0 to 120.0kPa	0.1kPa	±0.3kPa

Size(HxWxD): 248mm x 65mm x 45mm
Weight: 365g

Accessories :
Li-ion battery, %RH probe, dB probe, Anemo probe, Light probe, Vibration probe, EMF probe and gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-6200

Multi-function water quality detector

EMC
EN: 61326

This water quality detector is a portable water quality analysis device with small size, light weight, simple operation, and the ability to quickly and accurately detect various water quality parameters, such as pH value, dissolved oxygen, turbidity, ammonia nitrogen, nitrite, residual chlorine, total chlorine, chemical oxygen demand (COD), heavy metals, etc. It is widely used in environmental protection, water treatment, agriculture, scientific research, aquaculture and other fields.



Model 6200

Features

- 3.2" TFT screen display
- Quick detection, real-time reading without pre-processing
- Easy to carry and operate, suitable for use in various complex environments
- Built in multiple measurement modes such as real-time reading, timed reading, interval reading, etc.
- Supports synchronous detection of multiple water quality parameters, optional parameters
- The shell is made of high-strength materials, with high dust and waterproof levels
- Each detection item can independently store 10000 pieces of data

Specifications

Function	Range	Resolution	Accuracy
PH	0 -- 14pH	0.01pH	±0.2 pH
ORP	-1999mV- 1999mV	0.1mV	±0.2mV
DO	0 - 50 mg/L	0.01 mg/L	±5%
CF	0 - 200 μS/cm	0.01μS/cm	±0.5%
TDS	0 - 1000 NTU	0.01NTU	±5%
SA	0-10ppt	0.01ppt	±1% F.S
NH3-N	0-1000mg/L	0.1mg/L	±10% or ±0.5mg/L
COD	0-3000mg/L	0.1mg/L	±5%
TOC	0-1500mg/L	0.1mg/L	±5%
NH_4^+	0.5-14000 mg/L	0.1mg/L	±5%
F^-	0.1-19000 mg/L	0.1mg/L	±3%
Cl^-	7.0-35500 mg/L	0.1mg/L	±3%
NO3-	0-1000mg/L	0.1mg/L	±4%

Size(HxWxD): 210mm x 80mm x 46mm
Weight: 365g
Accessories : Li-ion battery, gift box with carrying case.







High-precision probe

DT-9795/9796

Professional Hand-Held Gas Detector

Flue gas analysis for heating manufacturing process of fuel combustion system monitoring analysis, from the monitoring of fuel gas emissions analysis, through the setting and optimization of the combustion system, so as to improve combustion efficiency. Flue gas analysis instruments help optimize operations and save fuel. At the same time, flue gas measurements enable inspection and monitoring of flue gas emission limits set by authorities, as well as functional testing of permanently installed exhaust instruments. More and more flue gas analytical instruments are used to monitor process and product quality.

Bluetooth

EMC
EN: 61326



Model 9795

Features

	9795	9796
Large-screen color display	*	*
NO and NO2 were measured separately		*
Special smoke probe for industrial engines	*	*
Pressure measurement	*	*
Gas Leak Detection	*	*
Bluetooth Comms with Printer	*	*
BLE Comms to iOS & Android devices	*	*
Data logging and query function	*	*
Automatic shutdown function	*	*
Rechargeable lithium battery	*	*
Type C interface		*

Specifications

Function	Range	Accuracy	Resolution	9795	9796
Differential Pressure	-200 to 200 hPa	±0.5 hPa (-49.9 to 49.9 hPa) ±1.5 % of mv (Remaining Range)	0.1 hPa	*	*
Differential pressure	0~400 mbar	+/-0.5 mbar or 1% of reading	0.01mbar	*	
Absolute Pressure	600 to 1150 hPa	±10 hPa	1 hPa		*
Flue gas O_2	0 to 25 Vol.%	±0.3 Vol.%	0.01 Vol.%	*	*
Flue gas CO (with H_2-compensation)	0 to 10000 ppm	±10 ppm or ±10 % of mv (0 to 200 ppm) ±20 ppm or ±5 % of mv (201 to 2000 ppm) ±10 % of mv (2001 to 10000 ppm)	1 ppm	*	*
Temperature	-200 to 1370 °C	0.5 %rgd+2.0°C(-200 to -100°C) 0.15%rgd+1.0°C(Remaining Range)	0.1 °C	*	*
Flue gas loss (calculated)	0 to 99.9 %		0.1 %	*	*
Flue gas CO_2 calculation (calculated from O_2)	0 to CO_2 max	±0.2 Vol.%	0.1 Vol.%	*	*
XS Air	0 to 100%			*	*
CO/CO2 ratio	0 to 0.9999		0.0001	*	*
Flue gas COlow (with H_2-compensation)	0 to 500 ppm	±2 ppm (0 to 39.9 ppm) ±5 % of mv (Remaining Range) data corresponds to 20°C ambient temperature. Additional temperature coefficient 0.25% of reading/K.	0.1 ppm		*
Flue gas NO	0 to 4000 ppm	±5 ppm (0 to 99 ppm) ±5 % of mv (100 to 1999 ppm) ±10 % of mv (2000 to 4000 ppm)	1 ppm		*
Flue gas Nolow	0 to 300 ppm	±2 ppm (0 to 39.9 ppm) ±5 % of mv (Remaining Range)	0.1 ppm		*
Flue gas NO_2	0 to 500 ppm	±10 ppm (0 to 199 ppm) ±5 % of mv (Remaining Range)	0.1 ppm		*
Flue gas SO_2	0 to 5000 ppm	±10 ppm (0 to 99 ppm) ±10 % of mv (Remaining Range)	1 ppm		*
Differential Pressure flue gas Draught - Piezoresistive	-40 to +40 hPa	±0.03 hPa (-2.99 to +2.99 hPa) ±1.5 % of mv (Remaining Range)	0.01 hPa		*

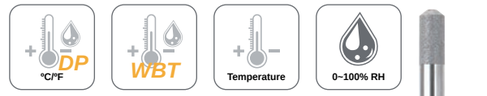
Size(HxWxD): 92mm x 185mm x 63mm
Weight: 706g
Accessories:
3.7V Li battery, USB cable, CD, gift box with carrying case.

Hand-Held Dewpoint Meter for Spot-Checking Applications



DT-8321
Professional Hand-Held Temperature / Humidity & Dewpoint Meter

The Handheld Dewpoint Meter measures dew point temperature accurately over a wide measurement range. The probe may be inserted directly into pressurized processes, and it responds rapidly from ambient to process conditions. The sensor withstands condensation and fully recovers from getting wet. The meter is suitable for direct process dew point measurement in a wide temperature and pressure range.



Features

Designed for industrial spot-checking and field calibration
Accurate measurement ranges from -50 to 30 °C (-58 to 86 °F)
The high quality sensor, optimal for low humidity measurement
Low maintenance need due to superior long-term stability
Sensor withstands condensation
Fast response, enhanced by Sensor Purge option
Data can be logged and CSV file transferred to a PC via USB
Compact, small and light
CSV file Data logger
Rechargeable lithium battery

EMC
EN: 61326

High Accuracy

Fast Response



DP-50 probe Specifications

Function	Range	Resolution	Accuracy
Relative Humidity	0 to 100%	0.01	RH<5%±(0.025%RH+17.5%rdg) RH>5% ±(1%RH+5%rdg) RH>15% ±(2%RH+3%rdg)
Dew point	-50~30 ℃ (-58~86 ℉)	0.01	-40...+20℃ ±2℃ (±3.6℉)
Temperature	-10~ 60 ℃ (14 ~140 ℉)	0.01	-10 ... +50 ℃ (+14 ... +122 °F) ±0.3℃(±0.54 °F) rest of range ±0.4℃(±0.72 °F)

Dew point response time : flow rate 0.2 m/s, 1 bar pressure, +20 °C (+68 °F) 63% [90%]
0 -> -40 °C Td (32 -> -40 °F Td) 20 s [120 s]
-40 -> 0 °C Td (-40 -> 32 °F Td) 10 s [20 s]

DP-60 probe Specifications

Function	Range	Resolution	Accuracy
Dew point	-70 ~ 30 °C (-94 ~ 86 °F)	0.01	-60 ~ +20 °C ±2 °C (±3.6 °F)
Relative Humidity	0 ~ 100%	0.01	RH<5% ±(0.025%RH+17.5%rdg) RH>5% ±(0.8%RH+2%rdg)
Temperature	-10 ~ 60 °C (14 ~ 140 °F)	0.01	±0.2°C (±0.36 °F)

Dew point response time: flow rate 0.2 m/s, 1 bar pressure, +20 °C (+68 °F) 63% [90%]
0 -> -60 °C Td (32 -> -76 °F Td) 50 s [340 s]
-60 -> 0 °C Td (-76 -> 32 °F Td) 10 s [20 s]



Model 8321

Size(HxWxD): 190mm x 75mm x 38mm
Weight: 320g
Accessories : 3.7V Li-ion battery and Sensor probe,
Gift box with carrying case.

DT-8320 Professional RTD Thermometer

A digital substitute for your mercury-in-glass thermometers. Accurate and repeatable to ± 0.05 °C over its full range of industrial temperature calibration. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, the intrinsically-safe, battery operated, portable reference thermometer is designed to go where you work.

Features

Accuracy of ± 0.05 °C (± 0.09 °F) over full range
Two models to choose from (-50 °C to 160 °C)
User-configurable temperature Trend/Stability indicator
Display temperature in °C or °F
Optional data logging to internal memory
Percent battery-life and low-battery indicator

Specifications

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01 °C/°F	± 0.05 °C (± 0.09 °F)
Sensor type	100 Ω thin-film RTD		
Display units	°C, °F		

Size(HxWxD): 190mm x 75mm x 38mm
Weight: 320g
Accessories :
3.7V Li-ion battery and Sensor probe,
Gift box with carrying case.



High Accuracy

Fast Response

EMC
EN: 61326





Model 8320

Professional HCHO Meter



DT-8513H
Professional HCHO Meter

The HCHO Tester provides a real time measurement of HCHO tech product to meet needs of varieties of occasions for air pollution measurements, timely responds air pollution.This instrument has a high accuracy, fast response, sensitivity. It is compact, easy to carry, suitable to use in and home, offices, factories, hotels and schools and other indoor environments. It can be displayed at any formaldhyde in the air.

Features

2.8"TFT color display , resolution 240(RGB) x 320 Pixels.
Graphic and digital interface Graphic and digital interface to display HCHO concentration with Date/ time stamp.
Multi-function menu interface, content-rich, interactive.
High accuracy measurement of HCHO, Air temperature and Humidity.
Automatic shutdown time adjustable
Battery indication.
Alarm switch
Capacity for data logging.
Temperature unit switching
Professional high sensitivity sensor.
Language switching
Bluetooth interface (optional)

Specifications

Function	Range	Resolution	Accuracy
HCHO	0.00-5.00 PPM	0.01 PPM (mg/m³)	±5%F.S (PPM)
Temperature	0-45℃/ 32 to 113℉	0.1℃/℉	±2℃/ 4℉
Humidity	0 to 100%RH	0.1%RH	±3.5%RH at 20 to 80%RH ±5%RH at 0to 20%RH/ 80 to 100%RH

Size(HxWxD): 68mm x 45mm x 185mm
Weight: 220g
Accessories : 4 x 1.5V “AA” batteries and Sensor probe, Gift box with carrying case.

Temperature
0~100% RH

EMC
EN: 61326

Bluetooth



Model 8513H

DT-8515N Professional NH_3 Meter

This product is a high-end NH_3 detection product, with 2.8"TFT color display, resolution 240 (RGB) *320 Pixels, using new and original imported sensors, high-precision AD chips and unique algorithm processing software, which can fast Accurately detect the concentration of NH_3.
This product is widely used in: petroleum enterprises, chemical industry, municipal administration, biological pharmacy, household environmental protection, school laboratories, automobile exhaust, sewage treatment and other places.

Features

2.8"TFT color display , resolution 240(RGB) x 320 Pixels.
Professional high sensitivity sensor.
Auto power off.
Data hold.
MAX/MIN/AVG Mode.
Bluetooth interface (optional)

Specifications

Function	Range	Resolution	Accuracy
NH_3	0-100 PPM	0.1 PPM	±3%F.S
Temperature	0-50℃	0.1℃	±1℃
Humidity	20 to 80%RH	0.1%RH	±2.5%RH@25°C
	10 ~ 20%RH & 80 ~ 95%RH		±3.0%RH@25°C

Size(HxWxD): 68mm x 45mm x 185mm
Weight: 220g
Accessories :
4 x 1.5V “AA” batteries and Sensor probe,
Gift box with carrying case.

Temperature
0~100% RH

EMC
EN: 61326

Bluetooth



Model 8515N

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-8516
Professional Smart Light Meter

Backlight | PC interface | Light (LUX/FC)

8516 light meter provides accurate display light level in terms of Foot Candles FC or LUX over wide range. Just turning the Function Switch to select the “lux” scale and setting the range to desired range, then removing the light detector to light source in a horizontal position and reading the illuminance norminal from the LCD display. When the measurement is completed, replace the light detector from the light source.

EMC
EN: 61326

Bluetooth



Model 8516



Features

2.4” TFT color display
Auto Ranging
Max/Min/AVG function
Auto Power Off
Low battery indication
Selectable FC/Lux unit
Capacity for data logging (99 readings)
Total accuracy: for C.I.E standard illuminate A(2856K)
Bluetooth interface with Smart phone APP

Specifications

Measuring range	400,000Lux
Accuracy	±5%±10d(<10,000Lux) ±10%±10d(>10,000Lux)
Max Resolution	0.1Lux/0.01Fc
Bluetooth interface	*

Size(HxWxD): 185mm x 68mm x 45mm
Weight: 248g

Accessories :
3.7V Li-battery, USB cable, software, Carrying case and Gift box.

DT-8517 Professional Smart Hot Wire Anemometer Meter with Thermocouple

Temperature | CFM CMM Air Flow | Backlight | DATA LOGGER

8517 Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; the measure range extends up to 20m/s.

Bluetooth



EMC
EN: 61326

Model 8517

Features

2.4” TFT color display
Single-point and continuous data log options
Velocity alarm
A bluetooth telescopic probe
Type K/Type J input
Auto power off
Low-battery indication
Data hold
Probe sensor cover
Bluetooth interface with smart phone APP



Specifications

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	0.1~30m/s	0.01m/s	±5%+0.03 m/s
ft/min(feet per minute)	20~3937ft/min	1ft/min	±5%+6ft/min
km/h(kilometers per hour)	0.3~72km/h	0.1km/h	±5%+0.1 km/h
MPH(miles per hour)	0.2~44.7MPH	0.1MPH	±5%+0.1 MPH
Air Temperature	-20～60℃ (-4～140℉)	0.1℃/0.1℉	0.5℃(0～45℃), 1.0℃ (rest of range) 1.0℉(32～113℉),2.0℉(rest of range)
Type K/ Type J	-200ºC to 1372ºC (-328ºF to 2501ºF)	0.1℃/0.1℉	
	Above-100ºC (-148ºF)	0.1℃/0.1℉	±[0.15%rdg+1ºC(1.8ºF)]
	Below -100ºC (-148ºF)	1℃/1℉	±[0.5%rdg+2ºC(3.6ºF)]

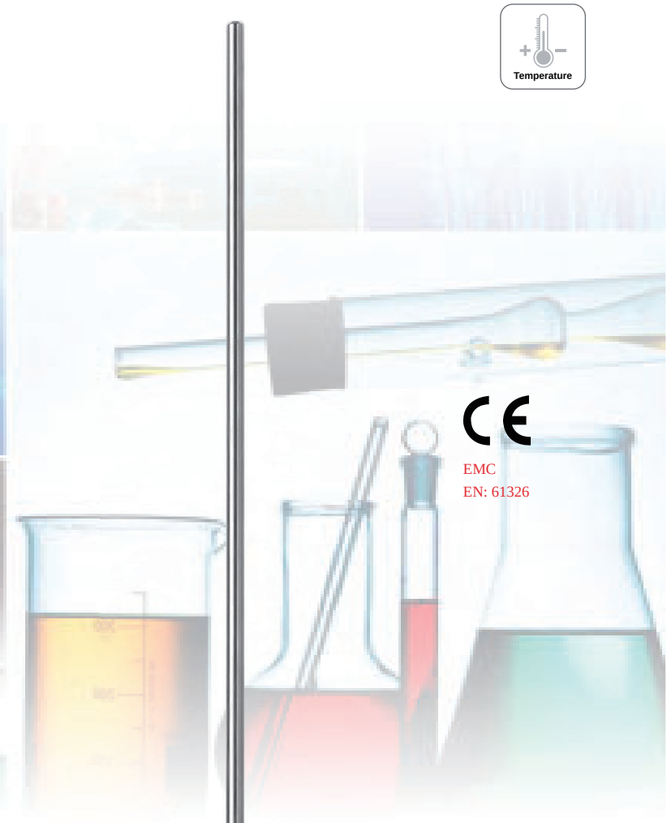
Size(HxWxD): 185mm x 68mm x 45mm
Weight: 248g

Accessories :
3.7V Li-battery, USB cable, software, Carrying case and Gift box.

DT-1616/1616B/1616H
RTD Thermometer

A digital substitute for your mercury-in-glass thermometers! Accurate and repeatable to ± 0.05 °C over its full range of industrial temperature calibration. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, the intrinsically-safe, battery operated, portable reference thermometer is designed to go where you work.

Temperature



EMC
EN: 61326

Features

Accuracy of ± 0.05 °C (± 0.09 °F) over full range
Two models to choose from (-50 °C to 160 °C)
User-configurable temperature Trend/Stability indicator
Display temperature in °C or °F
Optional data logging to internal memory
Percent battery-life and low-battery indicator

Specifications (1616H)

Function	Range:	Resolution	Accuracy
Temperature	-80 °C to 300 °C (-112 °F to 572 °F)	0.01°	± 0.05 °C (± 0.09 °F)
Sensor type	100 Ω RTD		
Display units	°C, °F		

Specifications (1616)

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01°	± 0.05 °C (± 0.09 °F)
Sensor type	100 Ω RTD		
Display units	°C, °F		

Specifications (1616B)

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01°	± 0.1 °C (± 0.18 °F)
Sensor type	100 Ω RTD		
Display units	°C, °F		

Size(HxWxD): 54mm x 31mm x 480mm
Weight: 220g

Accessories :
2 x 1.5V “AA” batteries and Sensor probe, Gift box with carrying case.



High Accuracy

Fast Response



Model 1616

Professional Thermocouple Thermometers



DT-8891/8891A/8891B/8891C/8891D/8891E
Professional Thermocouple Thermometers

8891/8891A/8891B/8891C/8891D/8891E contact thermometers offer fast response and laboratory accuracy. These thermometers work with K-type thermocouples and one IR temperature probe as temperature sensors, and offer 0.1 ºC/0.1 ºF resolution.

- Large backlit display shows any combination of T1, T2, T3, T1-T2 , T1-T3, T2-T3 plus MAX, MIN, AVG
- Relative time clock on MAX, MIN and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in ºC, ºF, or Kelvin (K)
- USB interface, USB to UART Bridge Controller(8891C/8891D/8891E)
- 18,000 records data logger per channel(8891C/8891E)
- Auto Power Off mode (Sleep mode) energy saver

EMC
EN: 61326

Type K Dual inputs (8891/8891A/8891C)

Type K Dual inputs with IR Thermometer (8891/8891C)

Type K (T1) · Type K (T2) · IR (T2) · Backlight

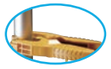


Infrared Input



Temperature probe (Optional)





Thermistor clamp (Optional)



Model 8891

Features

	8891	8891A	8891B	8891C	8891D	8891E
User Selectable ºC, ºF or K	*	*	*	*	*	*
0.1 ºC/0.1 ºF/0.1K resolution.	*	*	*	*	*	*
Type K Single input			*			
Type K Dual inputs	*	*		*		
Type K four inputs					*	*
IR temperature input	*		*	*	*	*
Max/Min/Avg Hold and Data Hold	*	*	*	*	*	*
Differential Temperature	*	*	*	*	*	*
Scan Function(T1,T2,T3,T-T2.....)	*	*	*	*	*	*
LCD display with backlight	*	*	*	*	*	*
Wide variety of interchangeable	*	*	*	*	*	*
Thermocouple Probes	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
USB interface				*	*	*
Data logging function				*		*

Specifications

	Range	Basic Accuracy	8891	8891A	8891B	8891C	8891D	8891E
Type K	-200ºC to 1372ºC (-328ºF to 2501ºF)		T1,T2	T1,T2	T1	T1,T2	T1,T2, T3,T4	T1,T2, T3,T4
	Above-100ºC (-148ºF)	±[0.15%rdg+1ºC(1.8ºF)]						
	Blow -100ºC (-148ºF)	±[0.5%rdg+2ºC(3.6ºF)]						
IR temperature	-30ºC to 550ºC (-22ºF to1022ºF)		T3		T2	T3	IR	IR
	Above-10ºC(14ºF)	±[2.0%rdg+2ºC(3.6ºF)]						
	Blow -10ºC(14ºF)	±5ºC(9.0ºF)						
Type K- Type K temperature		±[0.5%rdg+1ºC(1.8ºF)]	T1-T2		T1-T2	T1-T2	T1-T2, T3-T4	T1-T2, T3-T4
Type K-IR temperature	IR temperature Above-10ºC(14ºF)	±[2.0%rdg+3ºC(5.4ºF)]	T1-T3, T2-T3		T1-T2	T1-T3, T2-T3	T1-IR, T2-IR	T1-IR, T2-IR
	IR temperature Blow -10ºC(14ºF)	± 6ºC(10.8ºF)						
IR-Type K temperature	IR temperature Above-10ºC(14ºF)	±[2.0%rdg+3ºC(5.4ºF)]					IR-T3, IR-T4	IR-T3, IR-T4
	IR temperature Blow-10ºC(14ºF)	± 6ºC(10.8ºF)						



Model 8891E

Size(HxWxD): 203mm x 75mm x 50mm
Weight: 280g

Accessories : 9V battery, Type K temp probe, IR temp probe(8891/8891B/8891C/8891D/8891E), USB cable(8891C/8891D/8891E), software(8891C/8891D/8891E), Carrying case and Gift box.

DT-8896

Psychrometer with InfraRed Thermometer

3 in 1

%RH, Type K & IR Temperature

IR (T2) | Temperature | 0~100% RH | °C/°F | DP | WBT | Backlight

The Psychrometer with InfraRed Thermometer has been designed to combine the functions of Humidity meter, Type K Thermometer and Infrared Thermometer.



Model 8896

CE

EMC
EN: 61326





Features

Infrared to measure surface temperature with laser indication
Triple digital LCD display & Backlight
Slim design with rubberized sides for better grip and for one hand operation
Auto Power off & low battery indication
Accurate reading & Fast response time
Simultaneous display of: Humidity/Temperature; Humidity/Dew Point; Humidity/Wet Bulb
Highest 30 to 1 distance to target ratio measures smaller surface areas at greater distances.

Specifications

Function	Range	Resolution	Accuracy
Type K Temperature	-100~1372ºC(-148~2501ºF)	0.01ºC/ºF	±3% ±0.20m/s
InfraRed Temperature	-50 to -20ºC(-58 to -4ºF)	0.1ºC/ºF	± 5.0ºC(9.0ºF)
	-20 to 500ºC(-4 to 932ºF)	0.1ºC/ºF	±2% reading or ±2ºC(3.6ºF)
Air Temperature	-10-60ºC(14-140ºF)	0.1ºC/ºF	± 2.0ºC(3.6ºF)
Humidity	0%~99.9%RH	0.1%RH	±2%RH
Dew Point Temp.	-30ºC~100ºC(-22ºF~199ºF)	0.1ºC/ºF	±0.5ºC/0.9ºF
Wet Bulb Temp.	0ºC~80ºC(32ºF~176ºF)	0.1ºC/ºF	±0.5ºC/0.9ºF

Size(HxWxD): 255mm x 75mm x 50mm
Weight: 350g

Accessories : 9V battery, type K temperature probe and gift box with carrying case.

DT-8892 Professional Hygro-Thermometer Psychrometer

°C/°F | DP | WBT | Temperature | 0~100% RH | Backlight

%RH, Temperature, Dew point, Wet bulb, absolute Humidity, Mixing ration

Mixing ration/ Temperature

Features

Highest 2% RH accuracy with fast response time
Large LCD display of: Humidity/Temperature;
Humidity/Dew Point; Humidity/Wet Bulb
Auto power off and low battery indication
High Performance
Max Hold and Data Hold Function
Dual Display & Backlight

Specifications

Function	Range	Basic Accuracy(%rdg+digits)
Humidity	0ºC~10%RH, 90ºC~100%RH	±3%RH
	10ºC~90%RH	±2%RH
Temperature	-30ºC~100ºC/-22~199ºF	±0.5ºC/0.9ºF
Dew point Temp	-30ºC~100ºC/-22~199ºF	±0.5ºC/0.9ºF
Wet Bulb Temp	0ºC~80ºC/32~176ºF	±0.5ºC/0.9ºF

Size(HxWxD): 255mm x 45mm x 34mm
Weight: 200g

Accessories :
9V battery and gift box with carrying case



Model 8892

DT-3610B/3630/3891F/3891G/3891H

K-type/J-type Thermocouple Thermometers

3610B/3630/3891F/3891G/3891H contact thermometers offer fast response and laboratory accuracy. These thermometers work with K-type/J-type thermocouples and offer 0.1 ºC/0.1 ºF resolution.

- Large backlit display shows any combination of T1, T2, T3, T1-T2 , T1-T3, T2-T3 plus MAX, MIN, AVG
- Relative time clock on MAX, MIN and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in ºC, ºF, or Kelvin (K/J)
- USB interface, USB to UART Bridge Controller(3891F/3891G)
- 18,000 records data logger per channel(3891F/3891G)
- Auto Power Off mode (Sleep mode) energy saver





Model 3891H

Features

	3610B	3630	3891F	3891G	3891H
User Selectable ºC, ºF or K	*	*	*	*	*
0.1 ºC/0.1 ºF/0.1K resolution.	*	*	*	*	*
Type K/Type J Single input	*				
Type K/Type J Dual inputs		*	*		
Type K/Type J four inputs				*	*
Max/Min/Avg Hold and Data Hold	*	*	*	*	*
Differential Temperature		*	*	*	*
Scan Function(T1,T2,T3,T-T2.....)	*	*	*	*	*
LCD display with backlight	*	*	*	*	*
Wide variety of interchangeable	*	*	*	*	*
Thermocouple Probes	*	*	*	*	*
Auto Power Off	*	*	*	*	*
USB interface			*	*	*
Memory Readings			18,000	18,000	18,000
PC Software realtime record					*

Specifications

	Range	Basic Accuracy	3610B	3630	3891F	3891G	3891H
Type K	-200ºC to 1372ºC (-328ºF to 2501ºF)	±[0.15%rdg+1ºC (1.8ºF)]	T1	T1,T2	T1,T2	T1,T2,T3,T4	T1,T2,T3,T4
Type J	-210ºC to 1100ºC (-346ºF to 2012ºF)	±[0.15%rdg+1ºC (1.8ºF)]	T1	T1,T2	T1,T2	T1,T2,T3,T4	T1,T2,T3,T4
Type K- Type K/ Type J- Type J temperature		±[0.5%rdg+1ºC (1.8ºF)]		T1-T2	T1-T2	T1-T2, T3-T4	T1-T2, T3-T4

Size(HxWxD): 160mm x 58mm x 27mm
Weight: 350g

Accessories : 9V battery, type K temperature probe and gift box with carrying case.



CE

EMC
EN: 61326



Model 3610B

DT-9610B/9612/629/630/1370

Thermocouple Thermometers



Model 630

CE

EMC
EN: 61326



Model 9612



Single or Dual Thermocouple Input

- Type K thermometer with single or dual input direct or differential measurements to 0.1°
- Accuracy to 0.15% °C or °F readout (630)
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in °C, °F, or Kelvin(K)
- Auto Power Off (Sleep mode) prolongs battery life

Features

	9610B	9612	629	630
User Selectable °C or °F	*	*	*	*
User Selectable 0.1°C or 1°C(0.1°F or 1°F) Resolution	*	*	*	*
Type K Thermocouples	*	*	*	*
Single Thermocouple Input	*		*	
Dual Thermocouple Input		*		*
Wide variety of interchangeable Thermocouple Probes	*	*	*	*
Max Hold and Data Hold	*	*	*	*
Differential Temperature (T1-T2)		*	*	*
SCAN Function (T1, T2, T1-T2, MAX, HOLD.....)		*	*	*
LCD display with backlight			*	*

Specifications

Function	Range	Basic Accuracy	9610B / 629	9612	630
Temperature	-50~1300°C	±(0.5%±1°C)	Single Input	Dual Input	Dual Input
	-58~2000°F	±(0.5%±2°F)			
Resolution	0.1° or 1°		*	*	*

Specifications (630)

Range: -200°C to 1372°C (-328°F to 2501°F)	Basic Accuracy
T1, T2 Above -100°C (-148°F)	±[0.15%rdg+1°C(1.8°F)]
T1, T2 Blow -100°C (-148°F)	±[0.5%rdg+2°C(3.6°F)]
T1-T2	±[0.5%rdg+1°C(1.8°F)]
Type K Temperature Resolution	0.1°C/°F/K<1000° ;1°C/°F/K>1000°

Size(HxWxD): 188mm x 64.5mm x 24.5mm (9610B/9612)
Weight: 160g (9610B/9612)

Size(HxWxD): 220mm x 63mm x 28mm (629/630)
Weight: 200g (629/630)

Accessories :
9V battery, Holster with stand
and Temperature probe.

DT-1370/1370D Thermometer



Model 1370

CE

EMC
EN: 61326

The 1370 contact thermometer offers fast response, offers 0.1°C/0.1°F resolution over the entire measurement ranges.
1370D is dual probe design, capable of displaying the temperature of two probes simultaneously.

- Selectable °C or °F
- Data Hold
- Auto power off
- Overrange indication

Specifications

Function	Range	Resolution	Accuracy	1370	1370D
Temperature	-50 to 100°C	0.1°C /°F	±1°C (-20~60°C) ±2°C (-50~-20°C, 60~100°C)		*
	-50 to 200°C	0.1°C /°F	±2%±1°C/±1.8°F	*	
Probe Type	NTC				
Measurement Rate	2 per second				

Size(HxWxD): 113mm x 61mm x 13mm **Weight:** 90g
Accessories: Clamshell

DT-610B/612/613

Thermocouple Thermometers

Type K (T1) | Type K (T2) | Backlight

The 610B (single input) and 612(dual inputs) contact thermometers offer fast response and laboratory accuracy. The DT-613 (dual inputs) is a microprocessor-based digital thermometer designed to use external type K thermocouples (temperature probes) as temperature sensors. These thermometers work with type K thermocouples and offer 0.1°C/0.1°F resolution over the entire measurement range. A rugged holster protects three models.

- Type K thermometer with single or dual inputs direct or differential measurements to 0.1°
- Accuracy to 0.15% °C or °F readout (613)
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in °C, °F ,or Kelvin(K)
- Auto Power Off (Sleep mode) prolongs battery life

CE

EMC
EN: 61326



Optional



Single or Dual Thermocouple Input



Large, easy-to-read LCD display with backlit



Model 613

Features

	610B	612	613
User Selectable °C or °F	*	*	*
User Selectable 0.1°C or 1°C(0.1°F or 1°F) Resolution	*	*	*
Type K Thermocouples	*	*	*
Single Thermocouple Input	*		
Dual Thermocouple Inputs		*	*
Wide variety of interchangeable Thermocouple Probes	*	*	
Max Hold and Data Hold	*	*	*
Differential Temperature (T1-T2)		*	*
SCAN Function (T1, T2, T1-T2, MAX, HOLD.....)		*	*
LCD display with backlight	*	*	*

Dual Temperature inputs (612/613)

High Accuracy to 0.15% (613)



Model 610B



Model 612

Specifications

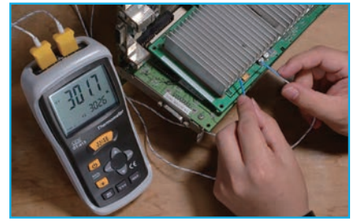
Function	Range	Basic Accuracy	610B	612	613
Temperature	-50~1300°C	±(0.5%±1°C)	Single Input	Dual Inputs	Dual Inputs
	-58~2000°F	±(0.5%±2°F)			
Resolution	0.1° or 1°		*	*	*

Specifications (613)

Range: -200°C to 1372°C (-328°F to 2501°F)	Basic Accuracy
T1, T2 Above -100°C (-148°F)	±[0.15%rdg+1°C(1.8°F)]
T1, T2 Below -100°C (-148°F)	±[0.5%rdg+2°C(3.6°F)]
T1-T2	±[0.5%rdg+1°C(1.8°F)]
Type K Temperature Resolution	0.1°C/°F/K<1000° ;1°C/°F/K>1000°

Size(HxWxD): 165mm x 76mm x 43mm
Weight: 403g

Accessories :
9V battery, Holster with stand, Type-K Temperature probe and gift box with carrying case.



Model 615



Temperature | 0~100% RH | Backlight

Large LCD display

625 is digital Humidity & Temperature Meter with Wet Bulb Temperature & Dew Point temperature, which has been designed to combine the functions of Humidity Meter, Temperature Meter, Wet Bulb Temperature and Dew point temperature.

It is an ideal Humidity & Temperature Meter with scores of practical applications for laboratorial, industrial, Engineer and professional use.

615 is Humidity meter with Air and type K thermocouple thermometer.

EMC
EN: 61326



High Performance and quality sensor

- Large, easy-to-read backlit LCD with dual display
- Fast Response Time: 10s (90% at 25ºC still air)
- 2% High Accuracy (625)
- Dew Point Temperature (-30ºC~100ºC/-22ºF~199ºF) (625)
- Wet Bulb Temperature (0ºC~80ºC/32ºF~176ºF) (625)
- Resolution 0.1%RH, 0.1ºC/0.1ºF
- Max/Min Hold and Data Hold Function (625)
- Microprocessor-based Design (625)
- Dual Display Temperature & Humidity

Model 625



Features

	615	625	635	616CT
Large dual digital LCD display with backlight	*	*	*	*
Response Time:10s (90% at +25ºC still air)		*	*	*
Sampling Rate: 2.5 samples per second	*	*	*	*
Dew Point Temperature & Wet Bulb Temperature		*	*	
2% High Accuracy		*	*	*
Dual Display Temperature & Humidity	*	*	*	*
Type K temperature	*		*	
Non-contact IR temperature				*

Model 616CT



Specifications

Function	Range	Resolution	Basic Accuracy	615	625	635	616CT
Humidity	0ºC~100%RH	0.1%RH	±2%RH		*	*	
			±3.5%RH	*			*
Temperature	-30ºC~100ºC/-30ºF~199ºF	0.1ºC/ºF	±0.5ºC/0.9ºF		*	*	*
Type K Temp.	-20ºC~1000ºC/ -4ºF~1832ºF	0.1º up to 200º, 1º over 200º	±3%	*		*	
Dew Point Temp.	-30ºC~100ºC/-22ºF~199ºF	0.1ºC/ºF	±1.0ºC/1.8ºF		*	*	
Wet Bulb Temp.	0ºC~80ºC/32ºF~176ºF	0.1ºC/ºF	±1.0ºC/1.8ºF		*	*	
IR temp.	-50ºC~500ºC/-58ºF~932ºF	0.1º up to 200º, 1º over 200º	±2.0%±2ºC/4ºF				*

Size(HxWxD): 225mm x 45mm x 34mm
Weight: 200g

Accessories:
Carrying case, type K temperature probe (615/635) and 9V battery.



Temperature | 0~100% RH | °C/°F DP | WBT | Backlight

321 is compact probe size digital Hygro-Thermometer, ideal for field use with high performance.

321S is fast response, high accuracy digital Hygro-Thermometer with Dew point & Wet bulb Temperature measurement.

321F with 8 inches Gooseneck detector is easy to measure the hard-reached areas. It's fast response, high accuracy digital Hygro-Thermometer with Dew point & Wet bulb Temperature measurement.

8" inch Gooseneck detector (321F)

- *Fast Response*
- *High Accuracy*

EMC
EN: 61326



High Quality Sensor

Model 321S



Features

	321	321S/321F
Mini size	*	*
Fast Response Time	*	*
High Accuracy		*
High Performance	*	*
Max Hold and Data Hold Function	*	*
Dual Display & Backlight	*	*
Dew Point & Wet Bulb Temperature		*

Specifications

Function	Range	Basic Accuracy	321	321S/321F
Humidity	0~100%RH	±2%RH		*
		±3.5%RH	*	
Temperature	-30~100ºC/ -22~199ºF	±0.5ºC/0.9ºF		*
	-20~60ºC/ -4~140ºF	±2ºC/3.6ºF	*	
Dew Point Temp.	-30~100ºC/ -22~199ºF	±0.5ºC/0.9ºF		*
Wet Bulb Temp.	0~80ºC/ 32~176ºF	±0.5ºC/0.9ºF		*

Size(HxWxD): 255mm x 45mm x 34mm
Weight: 200g

Accessories:
9V battery and gift box with carrying case.

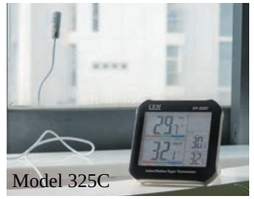
DT-325A/325B/325C/325D/325E/325F/325G

Big Digit Hygro-Thermometers



Model 325B


Model 325B


Model 325C


Model 325E


Model 325F

Specifications

Model	DT-325A	DT-325B	DT-325C	DT-325D	DT-325E	DT-325F	DT-325G
	Big Digit Hygro-Thermometers				Big Digit Thermometers		
	Indoor Thermometer	Indoor/ Outdoor Hygro-Thermometer	Dual input Indoor/ Outdoor Hygro-Thermometer	Dual input Indoor/ Outdoor Hygro-Thermometer with Alarm & Time	Dual input Indoor/Outdoor Thermometer	Indoor/Outdoor Type-T probe input & longer cable lenthThermometer	Indoor/Outdoor high accuracy refridge bottle probe only Thermometer
Temperature Range	-10°C to 60°C (14 to 140°F)	-10°C to 60°C (14°F to 140°F)	(-10°C to 60°C) 14°F to 140°F	-10°C to 60°C (14°F to 140°F)	-10 to 60°C (14 to 140°F)	-50°C to 70°C (-58°F to 158°F)	
Temperature Accuracy	±1°C/±1.8°F	±1°C/±1.8°F	±1°C/±1.8°F	±1°C/±1.8°F	±1°C/±1.8°F	±1°C/±1.8°F	
Temperature Resolution	0.1°	0.1°	0.1°	0.1°	0.1°	0.1°	
Humidity Range	10 to 99%	10 to 99%	10 to 99%	10 to 99%	No	No	
Humidity Accuracy	±4%	±4%	±4%	±4%	No	No	
Humidity Resolution	1%	1%	1%	1%	No	No	
Dew point temperature	NO	No	No	Yes	No	No	
MAX/MIN	No	No	Yes	Yes	No	YES	
Alarm (sound & display)	No	No	No	Yes	No	YES	
Date, time	No	No	No	(Yes)	No	Yes	
Cabel Length	No	5ft(1.5m)	5ft(1.5m)	5ft(1.5m)	10t(3m)	10ft(3m)	
Remote Probe type		Hard wired	Hard wired	Hard wired	Hard wired	Hard wired	plug-probe
Low battery indication	Yes						
°F/°C	Yes						

Size(HxWxD): 108mm x 103mm x 25mm
Weight: 201g

Accessories :
2xAA 1.5V batteries, gift box and carrying case.

DT-3321/3322

Dew Point/Wet Bulb/Psychrometer

Features

	3321	3322
User selectable NTC or Type K measure		*
Dew Point Temperature measure	*	*
Wet Bulb Temperature measure	*	*
Dry Bulb Temperature measure	*	*
Calculate the Target Superheat		*
Calculate the Target Evaporator Exit Temperture		*
User selectable ºC & ºF	*	*
MAX,MIN ,HOLD modes	*	*
Dual display with backlight	*	*
Automatic Power Off	*	*
Low battery display	*	*

3321 is a complete digital psychrometer and a very valuable HVAC diagnostic tool. As a psychrometer, it measures wet bulb(WB), dry bulb(DB), percent relative humidity(RH%), and dew point(DP).
3322 is a diagnostic tool, it helps the HVAC technician easily diagnose problems with air flow across the evaporator. It can also calculate the target superheat of a fixed restrictor air conditioning system.

Model 3322



High Accuracy

Fast Response

Specifications

Function	Range	Resolution	Basic Accuracy	3321	3322
Humidity	0~100%RH	0.1%RH	±2%RH	*	*
Temperature	-30~100ºC/-30~199ºF	0.1ºC/ºF	±0.5ºC/0.9ºF	*	*
Type K Temp.	-50~1372ºC/-58~2501ºF	0.1ºC/ºF	±0.15%±1ºC/1.8ºF	*	*
NTC. Temp.	0~60ºC/32~140ºF	0.1ºC/ºF	±0.5ºC/0.9ºF	*	*
Dew Point Temp.	-30~100ºC/-22~199ºF	0.1ºC/ºF	±1ºC/1.8ºF	*	*
Wet Bulb Temp.	0~80ºC/32~176ºF	0.1ºC/ºF	±1ºC/1.8ºF	*	*

Temperature | 0~100% RH | Backlight

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High Performance and quality sensor



Large, easy-to-read LCD display with backlit



Button on both sides of the rugged housing, easy to use

Model 3321



Size(HxWxD): 220mm x 63mm x 28mm (3321)
Weight: 200g (3321)
Size(HxWxD): 187mm x 63mm x 28mm (3322)
Weight: 176g (3322)
Accessories :
Type K temperature probe (3322) and 9V battery, gift box and carrying case.

DT-322/323 Interior Temperature Hygrometer

Features

- Environment Comfort Display: COMFORT, WET, DRY
- Time/Temperature/Humidity display
- °C/°F Temperature units the way self-locking switch show
- Highest/Lowest Temperature and Humidity memory function
- Calendar shows the whole point timekeeping, daily alarm functions, 12/24 hour clock

Specifications

Temperature Range	0 ~ 50°C/32 ~ 120°F
Temperature Accuracy	± 1.0°C/1.8°F
Temperature Resolution	0.1°C/0.1°F
Humidity Range	10% RH ~ 90% RH
Humidity Accuracy	± 5% (40% RH ~ 80% RH) other ± 8%

Size(HxWxD): 108mm x 60mm x 15mm
Weight: 74g
Accessories :
battery, gift box and carrying case.



EMC
EN: 61326

Model 322



Model 323

Moisture Meters





Features

Dual backlit LCD digital display of moisture & temperature
Readings with Integral electrod Pins
User selectable Wood moisture, Building material moisture , ºC , ºF
Auto power off

Specifications

Electrode length	8 mm
Measuring range	Wood: 6 – 44%
	Building material: 0.2– 2.0%
	Ambient temperature: 0 to 50ºC (32 to 122ºF)
Accuracy	Wood: ±2 %
	materials: ±0.2%
Ambient temperature	±1ºC / ±1.8ºF
Auto power OFF	After approx. 3 minutes
Operation temperature	0 - 40°C
Ambient Relative humidity	0 – 85 %RH





Model 120

Size(HxWxD): 96mm x 40mm x 20mm
Weight: 83g

Accessories :
4xLR44 button batteries, gift box and carrying case

DT-125H/125G Moisture Meters

125H/125G series moisture meters are used for testing moisture in wood, plaster and building materials. Integrated characteristics for 8 material groups increase the accuracy of measurements. The wet/dry indicator evaluates and interprets measurements with respect to the given material. The clearly organised, functional display and rubber guard around the housing make this unit well-suited for use in the rough professional environment.
125G can meet with different measuring requirements with various professional remote probes.

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EMC
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Features

Large LCD display
Readings with Moisture Probe or Hammer Electrode
Readings with Integral electrod Pins

Specifications

Model	125H	125G
Electrode length	8 mm	
Electrodes	Integrated, replaceable	
Measuring range Wood:	1 – 75 %	
Measuring range	Wood: 1 – 75 %	
	Building material: 0.1– 2.4 %	
	Ambient temperature: -40 to 70ºC (-40 to 158ºF)	
	Ambient Relative Humidity: 0 to 100%	
Accuracy	Wood: 0…30% / ±1 %	
	30…60% / ±2%	
	60…75% / ±4%	
	Other materials: / ±0.5%	
Ambient temperature range	-40 ºC~ -10ºC and +40 ~ +70ºC / ±2ºC	
	-10 ºC~ +40ºC / ±1ºC	
Ambient Relative Humidity	0~20% and 80 ~ 100% /±5.0%	
	20~ 80%/±3.5%	
Auto power OFF	After approx. 3 minutes	
Auto LCD backlight OFF	After approx 10 seconds	
Housing material	Impact-proof plastic housing	
Operation temperature	0 - 40°C	
Ambient Relative humidity	0 – 85 %RH	
Professional remote probes	No	Yes

Size(HxWxD): 160mm x 60mm x 28mm
Weight: 203g

Accessories :
3xCR2032 button batteries, Moisture Hammer Probe, Moisture Baseboard Probe, Moisture Probe Extenders, gift box and carrying case (125G)
3 x CR2032 button batteries (125H)



Model 125G





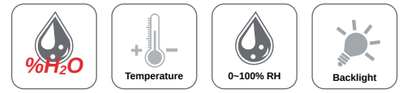


Multifunction Moisture Meter with Psychrometer & IR Thermometer



DT-229/239
Multifunction Moisture Meter with Psychrometer + IR Thermometer

Multifunction Moisture Meter with Built-in Psychrometer and IR Thermometer, Monitoring the moisture in wood and other building materials with virtually no surface damage with the Non-Penetrating Moisture sensor. Measuring Humidity and Air Temperature with built-in probe plus non-contact InfraRed Temperature design.



Features

Quickly indicates the moisture content of materials with Pinless technology without damaging the surface (239)
Easy to read, large dual display with automatic backlight feature
Simultaneously displays moisture value of wood or material being tested, Air Temperature, Humidity and IR Temperature
Pinless measurement depth to 0.75" (19mm) below the surface (239)
Programmable high/low Moisture and Humidity alarms
Designed with an IR circuit to measure non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity
Built-in Humidity/Temperature probe measures Relative Humidity, Air Temperature plus Grains Per Pound (GPP)/(g/kg), Dew Point (DP), Vapor Pressure, and condensation point
Automatic calculation of differential Temperature (IR - DP) to determine condensation point
Min/Max and Data Hold
Auto power off and low battery indication

Specifications

		229	239
Pin-type moisture Measurement			
Range	0 to 99.9 (Relative)	*	
Accuracy (of reading)	±5%	*	
Resolution	0.1	*	
Pinless Moisture Measurement			
Range	0 to 99.9 (Relative)		*
Accuracy (of reading)	±5%		*
Resolution	0.1		*
Pinless Depth	up to 0.75" (19mm)		*
IR Temperature Measurement			
Range	-50 to 200°C(-58 to 392°F)		*
Distance to Spot size	8:1 Distance to Spot size		*
Emissivity	0.95		*
Response Time	Less than 1 second		*
Resolution	0.1		*
Basic Accuracy	±3.5°C(±6.3°F)		*
Air Temperature Measurement			
Air Temp Range	-28 to 77℃/-20 to 170℉	*	*
Basic Accuracy	±2℃/3.6℉	*	*
Humidity Range	0 to 100%RH	*	*
Basic Accuracy	±5%RH @0% to 20% and 80% to 100% ±3.5%RH @20% to 80%	*	*
Vapor Pressure	0 to 20.0kPA	*	*
Dew Point	-22 to 199°F (-30 to 100°C)	*	*
Mixing ratio	0 to 999GPP (0 to 160g/kg)	*	*

replaceable pin



Model 229

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Model 239


Measure moisture of wall material with non-invasive Pinless technology


Pinless moisture measurements


Patented IR thermometer design locates cold spots on walls, which identifies surfaces subject to condensation (direct differential display of IR - DP)

Size(HxWxD): 170mm x 70mm x 38mm
Weight: 280g
Accessories: Gift Box with Carrying Case

DT-123/123H/123L/125/125B/127

Moisture Meters

123/123H/123L/125/125B/127 are used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). They display the moisture level. The instruments have an average adjustment for European wood based on a wood temperature of 20ºC.
127 is 2 in 1 digital and analog moisture meter
123L is 2 in 1 digital and analog moisture meter with flashlight

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Model 123L



Model 123H





Features
Large LCD display
Readings with Moisture Probe or Hammer Electrode
Readings with Integral electrod Pins

Specifications	
Measuring principle	Electrical resistance
Electrode length	8mm
Electrodes	Integrated, replaceable
Measuring range	Wood: 6-44%
	Material: 0.2-2.0%
Display Accuracy	Wood: ±1%
	Material: ±0.05% (127)
Battery	3 x Cr 2032, replaceables
Ambient temperature	0-40ºC
Ambient humidity	0-85%

Size(HxWxD): 123/123L/127: 130mm x 40mm x 33mm
Weight: 99g
Size(HxWxD): 125/125B: 140mm x 48mm x 33mm
Weight: 93g



Model 125



Model 125B





Calibration and battery check





replaceable pin



Accessories :
battery, clamshell



Model 123

DT-129/129B

Moisture Meter

129 is a conductivity moisture instrument designed for use in wood, used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). They display the moisture level. The instruments have an average adjustment for European wood based on a wood temperature of 20ºC.

129B is with various professional remote probe.

- Large LCD display
- Automatically Temperature Corrected (ATC) Readings when used with the temperature probe
- Readings with Moisture Probe or Hammer Electrode
- Readings with Integral electrod Pins





Built in Pins



Model 129

Features
Large LCD display
Readings with Moisture Probe or Hammer Electrode
Automatically Temperature Corrected (ATC) Readings when used with the temperature probe
Readings with Integral electrod Pins



Specifications	
Measuring principle	Electrical resistance
Electrode length	8mm
Electrodes	Integrated, replaceable
Measuring range	Wood: 6-99.9%
Display Accuracy	Wood: ±1%
Temperature measuring	0-60ºC
Ambient temperature	0-40ºC
Ambient humidity	0-85%





Optional remote probe

Size(HxWxD): 180mm x 50mm x 31mm
Weight: 175g
Accessories : 2x1.5V AAA batteries, Gift Box with Carrying Case

DT-190 Moisture Datalogger

Features
Recording and alarm setup and indication
Readings with Moisture Probe or Hammer Electrode
Real-time data transmission
Low battery indication

Specifications	
Measuring range	Wood: 6-99.9 %
	Building material: 6-99.9 %
	Ambient temperature: -40 to 70ºC (-40 to 158ºF)
	Ambient Relative Humidity: 0 to 100%
Accuracy	Wood: ±1 %
Ambient temperature	-40 ºC~ -10ºC and +40 ~ +70ºC / ±2ºC
	-10 ºC~ +40ºC / ±1ºC
Ambient Relative Humidity	0~20% and 80 ~ 100% /±5.0%
	20~ 80%/±3.5%
Memory	50000 readings
Measuring rate	2sec. to 24h
Professional remote probes	*

Size(HxWxD): 145mm x 35mm x 30mm **Weight:** 49g
Accessories : 3.6V Lithium battery, software and clamshell.

Model 190



DT-128

Pinless Moisture Meter



Model 128

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Features

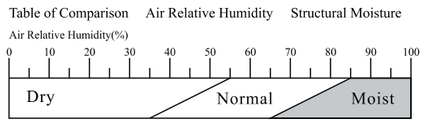
Quickly indicate the moisture content of materials
Depth of penetration about 20-40mm.
Low battery indication
MAX/MIN Function
HOLD Function
Auto Power Off
White Backlit LCD Display

Specifications

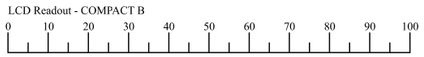
Sensor Type	metal spheroid
Measuring Range	0 to 100 digit
Max Resolution	1

Size(HxWxD): 189mm x 47mm x 35mm **Weight:** 178g
Accessories: 9V battery and gift box

Table of Comparison Air Relative Humidity Structural Moisture



LCD Readout - COMPACT B



LCD Readout - COMPACT B

Gypsum+anhydrite based constr.mat./flooring - Wt/CM-%	0.3	0.5	1.4	2.0	2.5	2.7 %
Cement based constr.mat. and flooring in CM-%	1.5	2.1	3.0	3.5	4.0	CM-%
Cement based constr.mat. and flooring in weight-%	2.7	3.6	4.5	5.5	6.0	Wt-%

CM% = percentage value by carbide method

DT-128M/128H Pinless Moisture Meter

128M/128H is the non-contact Moisture Meter, it is an electronic dampness indicator with a measuring process working on the principle of high frequency. The instrument is used for non-destructively tracing dampness in building materials of all kinds as well as for detecting damp distribution in walls , ceilings and floors. It is particulary suitable for pre-testing the readiness of building materials for covering prior to CM measurement.

Features

Quickly indicate the moisture content of materials
CM % measured function
Depth of penetration about 20-40mm with alarms.
Measure and HOLD Function
MAX/MIN display Function
Programmable moisture alarms
Auto Power Off & low battery indication
White Backlit LCD Display
Multiple Material Groups (128H)

Specifications

Measuring Range	0.0~100.0 %
Penetration Depth	20~40mm
Resolution	0.1

Moisture Table of Comparison

Construction material	Display	Moisture status
Gypsum	<30 digits	dry
	30 – 60 digits	at risk
	>60 digits	wet
Cement	<25 digits	dry
	25 – 50 digits	at risk
	50 – 75 digits	wet
	>75 digits	all wet



Button on both sides of the rugged housing, easy to use



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Model 128H

Size(HxWxD): 242mm x 63mm x 30mm
Weight: 226g
Accessories: 3×"AAA" 1.5V battery, gift box with carrying case.

DT-126M

Pinless Moisture Meter

126M is Pinless Moisture Meter is a tester that uses inductive sensors to measure moisture in the material, material moisture value can be displayed in real-time.
10 materials can be measured: Dry wall, Masonry, Hardwood, Softwood, Hard gypsum floor (Wt%), Hard gypsum floor (CM%), Cement (Wt%), Cement (CM%), Concrete, Gypsum plaster.

Features

The LCD off-code screen display is shown
Material moisture measurement, measurement principle: capacitive type
Induction measurements of 10 materials
10s Backlight, any button trigger
Turn it off automatically for 10 minutes
Low-Power display
Alarm threshold value settings
Data remains functional

Specifications

Sensing Depth	3/4" (19 mm)
Moisture Reading Range	0 to 100%
Display Resolution	0.1%
Measurable Materials	Drywall, Hardwood, Softwood
Display	Bright Reverse-Contrast Display and a Nine LED Bar Graph

Default LED Color Display and Alarm

Material	Green Light	Continuous Alarm, Yellow Light	Long Alarm, Red Light	Range
Drywall	10-40%	40-70%	>70%	0-100%
Masonry	9-35.8%	35.8-62.7%	>62.7%	0-89.5%
Hardwood	3.5-14%	14-24.5%	>24.5%	0-35.0%
Softwood	5.5-22%	22-38.5%	>38.5%	0-55.0%
Anhydrite Screed (Wt%)	0.4-1.4%	1.4-2.5%	>2.5%	0-3.5%
Anhydrite Screed (CM%)	0.2-0.6%	0.6-1.1%	>1.1%	0-1.5%
Cement Screed (Wt%)	0.5-1.7%	1.7-3.3%	>3.3%	0-4.7%
Cement Screed (CM%)	0.3-1.2%	1.2-2.1%	>2.1%	0-3.0%
Concrete	0.6-2.4%	2.4-4.2%	>4.2%	0-6.0%

Size(HxWxD): 180mm x 67mm x 38mm
Weight: 180g

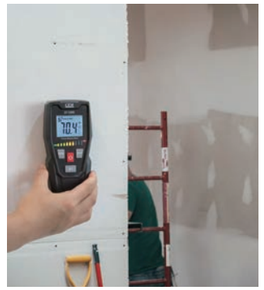
Accessories:
9V battery, gift box with carrying case.

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Non-contact moisture sensor





Model 126M

DT-126H Pinless & Pintype Moisture Meter

The tester professionally measuring moisture in the material using probe and inductive sensors. The two modes can be switched at will, material moisture values can be displayed in real-time.
Two materials can be measured in probe mode: wood and construction.
In induction mode, 10 materials can be measured: Dry wall, Masonry, Hardwood, Softwood, Hard gypsum floor (Wt%), Hard gypsum floor (CM%), Cement (Wt%), Cement (CM%), Concrete, Gypsum plaster.
Can be simple button operation and comfortable feel, so that users can use this instrument more easily and quickly to measure.

Features

The LCD off-code screen display is shown
Material moisture measurement, measurement principle: Probe type (Resistance value), Induction type (Capacitive type)
EXT (Probe type), REL (Induction type) mode is switchable
Probe-type measurements for 2 materials, Induction measurements of 10 materials
Data remains functional, 10s Backlight, any button trigger
Turn it off automatically for 10 minutes, Low-power display
LED lamp color level display, beep alarm

Specifications

Probe-Type			
	Range	Resolution	Accuracy
Moisture Reading Range	Wood: 6 to 99%	0.1%	Wood: ±2%
Measurable materials	Wood, Build		
Induction Type			
Sensing Depth	3/4" (19 mm)		
Moisture Reading Range	0 to 100%		
Display Resolution	0.1%		
Measurable Materials	Drywall, Masonry, Hardwood, Softwood		
Display	Bright Reverse-Contrast Display and a Nine LED Bar Graph		
Application	Detect Moisture Content and Water seepage/Leakage		
Special Features	Audible Alert, Auto-Power Off, Visual Notification		

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Laser line & External Level





Non-contact moisture sensor

Model 126H

Size(HxWxD): 180mm x 67mm x 38mm **Weight:** 180g
Accessories: 9V battery, gift box with carrying case.

DT-269/279

Hand-Held Multi-function Environment Meter with Infrared Thermal Imager

High Accuracy

Fast Response

This is a multi-function meter, with temperature and humidity detection, infrared temperature measurement, laser distance, wood moisture measurement (pin and pinless), flashlights, time settings and data recording and other functions. It is a powerful and versatile instrument for measuring and diagnosing moisture of building and building materials.

With 8 buttons, the operation is simple, the interface is bright and beautiful, and the function is powerful.



Model 269

Features

Built-in Thermal Imager design quickly identifies hot spots without contact (279)
Quickly indicates the moisture content of materials with Pinless technology without damaging the surface; Optional remote Pin-type probe allows for moisture readings at different Penetration levels (3ft/0.9m cable length)
Designed with patented IR design to measure non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity.
Built-in Humidity/Temperature sensor measures Relative Humidity,
Air Temperature plus grains per pound (GPP) and dew point (DP)
Automatic calculation of differential Temperature (IR - DP)
Auto power off and low battery indication
Keep data convenient and easy to access each record with single deletion and total deletion
Laser distance measurement with fast response and high accuracy. It can measure length, area and volume
Color, graphical interface, simple operation, easy to understand icons, beautiful interface

CE

EMC
EN: 61326

Specifications

Thermal Imager		**269**	**279**
IR resolution	120x120 pixels		*
Field of View (FOV)	21 x 21°		*
Thermal sensitivity/NETD	< 0.08°C /80mK		*
Image frequency	50Hz		*
Object temperature range	range: –20 to 200°C (–4 to 392°F)		*
Spectral range	8–14 µm		*
Color palettes	IRON/Rainbow/Grey/Grey Inverted		*
Accuracy	±2°C (±3.6°F) or ±2% of reading		*
Functions			
Function	Range	Resolution	Accuracy	*	*
Wood moisture	0~99.9	0.1	±5	*	*
laser distance range	0.11m – 50m	0.001m	±1.5mm	*	*
Temperature	-20°C to 70°C (-4 to 158°F)	0.1°C	±2°C	*	*
Humidity	0~100%RH	0.1%RH	±3.5%RH(20~80%RH) ±5%RH(0~20%RH/80~100%RH)	*	*



Model 279

Size(HxWxD): 118mm x 80mm x 48mm **Weight:** 320g

Accessories : 4 x "AAA" battery and Sensor probe, Gift box with carrying case.





DT-129M

Pinless Moisture Meter

129M Pinless Moisture Meter is a tester that uses inductive sensors to measure moisture in the material, the moisture value can be displayed in real-time.

10 materials can be measured: Dry wall, Masonry, Hardwood, Softwood, Hard gypsum floor (Wt%), Hard gypsum floor (CM%), Cement (Wt%), Cement (CM%), Concrete, Gypsum plaster.

Features

The LCD off-code screen display is shown
Material moisture measurement, measurement principle: capacitive type
Induction measurements of 10 materials
10s Backlight, any button trigger
Turn it off automatically for 10 minutes
Low-Power display
Alarm threshold value settings
Data remains functional

Specifications

Sensing Depth	3/4'' (19 mm)
Moisture Reading Range	0 to 100%
Display Resolution	0.1%
Measurable Materials	Drywall, Hardwood, Softwood

Default LED Color Display and Alarm

Material	**Green Light**	**Continuous Alarm, Yellow Light**	**Long Alarm, Red Light**	**Range**
Drywall	10-40%	40-70%	>70%	0-100%
Masonry	9-35.8%	35.8-62.7%	>62.7%	0-89.5%
Hardwood	3.5-14%	14-24.5%	>24.5%	0-35.0%
Softwood	5.5-22%	22-38.5%	>38.5%	0-55.0%
Anhydrite Screed (Wt%)	0.4-1.4%	1.4-2.5%	>2.5%	0-3.5%
Anhydrite Screed (CM%)	0.2-0.6%	0.6-1.1%	>1.1%	0-1.5%
Cement Screed (Wt%)	0.5-1.7%	1.7-3.3%	>3.3%	0-4.7%
Cement Screed (CM%)	0.3-1.2%	1.2-2.1%	>2.1%	0-3.0%
Concrete	0.6-2.4%	2.4-4.2%	>4.2%	0-6.0%

Size(HxWxD): 180mm x 67mm x 38mm

Weight: 180g

Accessories:
9V battery, gift box.

CE

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Non-contact moisture sensor





Model 129M

DT-121 Pen Moisture Meter

This is a compact pen needle material moisture and humidity meter with flashlight function, which can be used to measure the moisture content of wood or buildings. The human-machine interface is very friendly, the button operation is convenient, and the display effect is intuitive and vivid.

%H_2O

CE

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Features

- Quickly indicate the moisture content of materials
- Selection of different types of material
- Low battery indication
- Auto Power Off
- Flashlight function, versatile for one device
- Pen style design, compact and convenient



Specifications

Function	Range	Resolution	Accuracy
Wood moisture	6~99.9%	0.1	±2%(6%~60%) ±4% (60%~99.9%)
Operating Temperature	0 to 50°C (32 to 122°F)		
Relative Humidity	10 to 90%RH non-condensing		
Battery	2 * AAA 1.5V Batteries		



replaceable pin

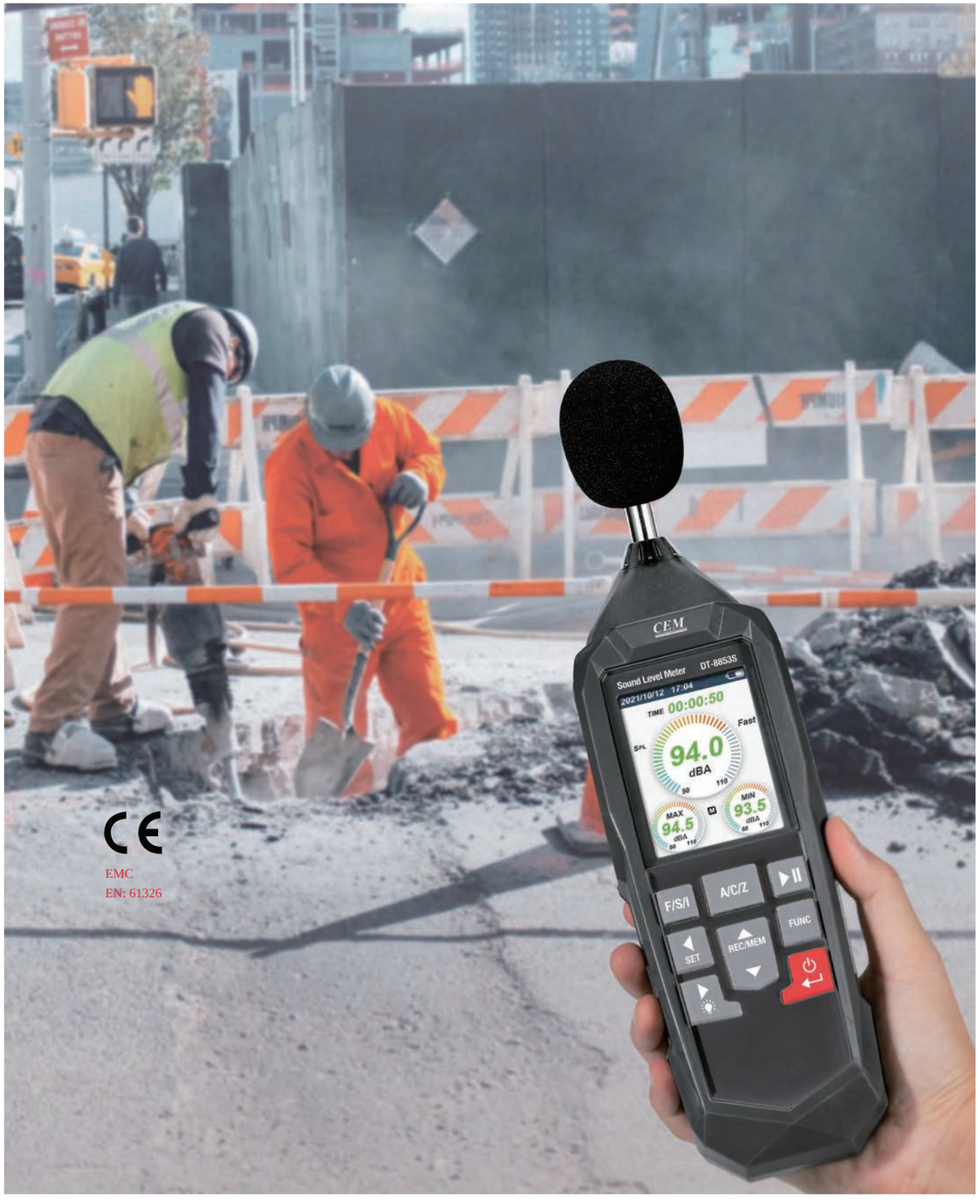
Size(HxWxD): 185mm x 30mm x 30mm **Weight:** 205g

Accessories : 2 x 1.5V AAA batteries, gift box.



Model 121

Sound Level Meters



CE
EMC
EN: 61326

DT-8853/8853S
Sound Level Meters

30~130 dB | PC interface | 110V/220V AC adaptor | DATA LOGGER | Backlight

Level range: 30~130dB

1.0dB Accuracy

8853, 8853S Sound Level Meter is designed for noise project, quality control, illness prevention and cure and all kinds of environmental sounds measurement.
It is applied to the sounds measurement at factory, school, office, traffic access and household, etc.

Features

	8853	8853S
This unit confirms to the IEC61672-1 Class2 for Sound Level Meters	*	*
MAX&MIN measurements	*	*
Overrange & Underrange display	*	*
A &C Weighting	*	*
FAST & SLOW response	*	*
Analog AC/DC outputs for connection to frequency analyzer or X-Y shalt recorder	*	*
Datalogger function	*	*
Adjustable Alarm-Levels	*	*
Memory for 32700 readings	*	*
Bluetooth interface to smartphone	*	*
PC upper computer	*	*
Simulation bar		*
Barometer	*	*
3.2” TFT LCD display		*
Leq (Equivalent Continuous Noise Level)	*	*

Specifications

	8853S	8853
Standard conformity	IEC 61672: 2002 Class1, IEC60651:1979 TYPE 1, IEC60804:2000 TYPE 1	IEC61672-1 CLASS2
Accuracy	±1.0dB	±1.4dB
Frequency Weighting	A/C/Z	A/C
Frequency Range	20Hz~16KHz	31.5Hz to 8kHz
Microphone	High sensitivity, 1/2” pre-polarized capacitor microphone 50 mV/Pa	1/2 inch electret condenser microphone
Measurement Range	30dB ~ 130dB (A), 35dB ~ 130dB (C), 40dB ~ 130dB (Z)	Lo: 30dB to 80dB / Med: 50dB to 100dB Hi: 80dB to 130dB / Auto: 30dB to 130dB
Measurement Items	Lxyp, Lxmax, Lxmin, Lxeq, LAE, Lcpeak	L5, L10, L50, L90, Lmax, Lmin
Integrate Time Setup	Manual, 10s, 1m, 5m, 10m , 30m, 1h, 8h, 16h, 24h	
Micro SD Card	The max support capacity of micro SD card is 32GB; 32700 data about story space 300KB	Built-in 32700 data about stary
Peak value measurement range	70~133 dBC	
Time Weighting	Fast, Slow, Impulse, Peak	Fast, Slow
DC Output	10mV/1dB	10mV/1dB
AC Output	1Vrms(±10%)/130dB each range	1Vrms(±10%)/130dB each range
Starting Time	<10 Second	<10 Second
Thermal noise	≤28dBA	
LCD	3.2” TFT	4 digits segment code LCD

Size(HxWxD): 300mm x 81mm x 51mm **Weight:** 415g
Accessories : gift box with carrying case.

CE
EMC
EN: 61326



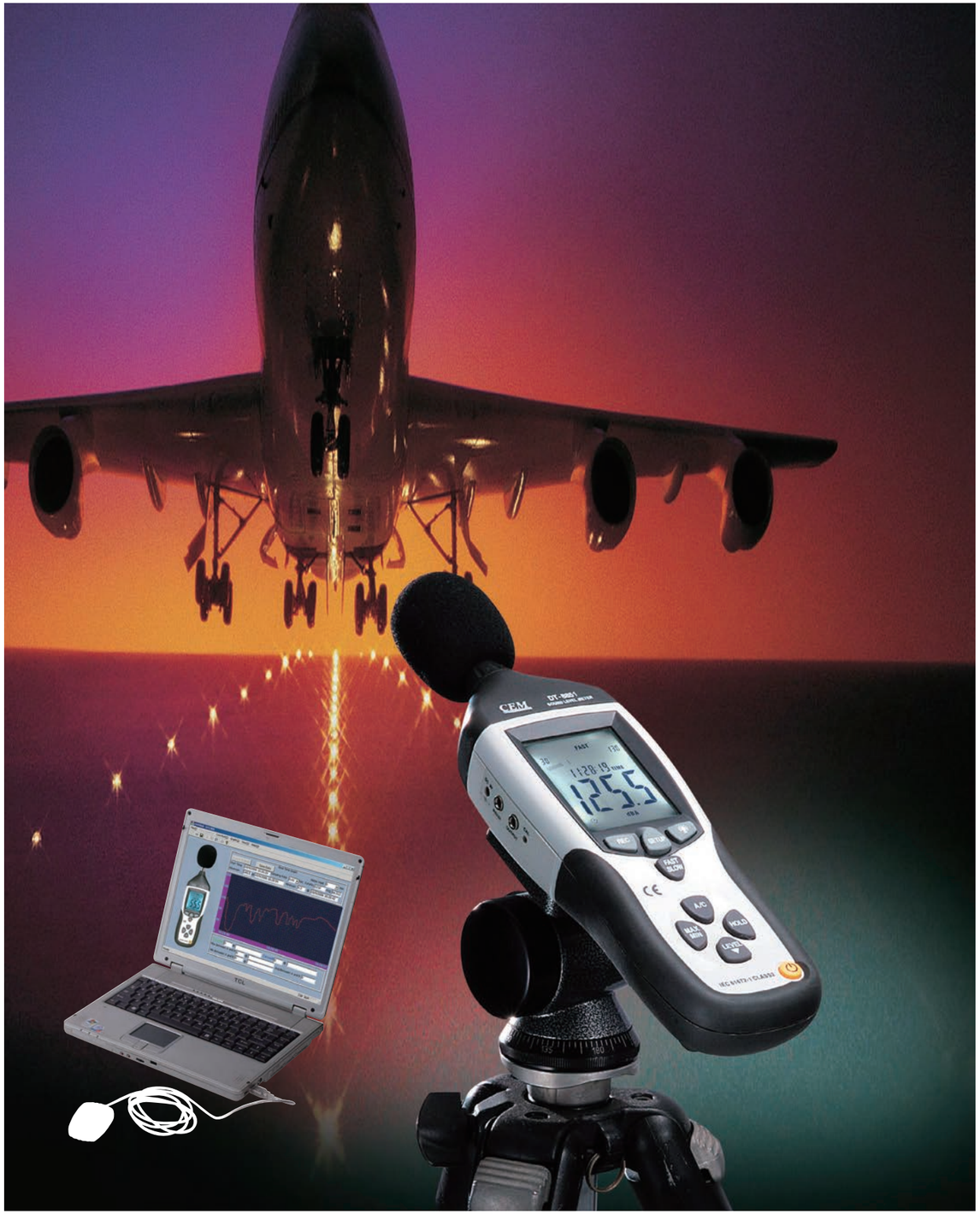
Model 8853S

Bluetooth



Model 8853

Sound Level Meters



DT-8851/8852
Sound Level Meters



EMC
EN: 61326

1.4dB Accuracy

Level range: 30~130dB

8851/8852 Sound Level Meters are designed for noise control project, quality control, illness prevention & cure and all kinds of environmental sounds measurements. It is applied to the sounds measurement at factory, school, office, hospital, traffic access and household etc.

Features

This unit confirms to the IEC61672-1 class 2 for Sound Level Meters
MAX / MIN measurements
Overrange display
A & C Weighting
FAST & SLOW response
Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder
Datalogger function (8852)
Adjustable Alarm-Levels (8852)
Memory for 32700 readings (8852)



Time weighting & Frequency weighting, Current reading



Analog AC/DC outputs



Model 8851

Specifications

Standard conformity	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB
Frequency range	31.5HZ ~ 8KHZ
Dynamic range	50dB
Level ranges	Lo:30dB~80dB Med:50dB~100dB
	Hi:80dB~130dB Auto:30dB~130dB
Time weighting	FAST (125mS), SLOW (1s)
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Display update	2 times/sec
Analog output	AC/DC outputs, AC=1Vrms, DC=10mV/dB



Accessories :
Battery, screwdriver, audio plug, windscreen, software, USB cable, tripod and DC 9V power supply and gift box with carrying case.



Size(HxWxD): 278mm x 76mm x 50mm
Weight: 350g

SC-05
Sound Level Calibrator

Features

94dB and 114dB Sound Calibration at 1kHz
Accurate and simple to use
Fits 1/2” diameter microphone

Specifications

Output Sound Pressure Levels	114dB and 94dB re 20 uPa under refrence conditions.
Output Frequency	1000Hz, ±4%
Reference Temperature Conditions	>23ºC (73ºF)
Atmospheric pressure	>1013 mbar (760mm of Hg)
Relative humidity	>65%RH
Accuracy of Sound Pressure Level	Under stated reference environment conditions ±0.5dB



Model SC-05



Size(HxWxD): 120mm x 50mm x 42mm
Weight: 278g

Accessories:
9V battery, Carrying case,1/2”Microphone Adaptor (optional) and Clamshell.

DT-8850 Sound Level Meter

8850 Sound Level Meter can be used to measure noise in factories, schools, offices, airports and home etc, checking acoustics of studios, auditoriums and Hi-Lo installations. 8850 meets IEC 61672-1 Type 2 standards. The 30 to 130 dB range makes this meter ideal for all general purpose sound level measurements.

1.4dB Accuracy



Model 8850

CE
EMC
EN: 61326

Features

Provides 1.4dB accuracy
Meets IEC61672-1 type 2 standards
Newly Design Shape
High Performance
Max Hold and Data Hold Functions
Analog AC/DC outputs for connection to an analyzer or recorder
Built-in calibration check

Specifications

Range	Lo (Low)-Weighting: 35dB~100dB
	Hi (High)-Weighting: 65dB~130dB
Frequency Weighting: A /C	Lo (Low)-Weighting: 35dB~100dB
	Hi (High)-Weighting: 65dB~130dB
Resolution	0.1dB
Accuracy	1.4dB at 94dB sound level, 1kHz sine wave
Measurement rate	1.5 times per second, norminal
Storage Temperature	-10ºC~60ºC (<80%R.H.)
Over Range	“OL” mark indication

Size(HxWxD): 251mm x 63.8mm x 40mm
Weight: 250g
Accessories :
9V battery, Carrying case and Gift box.

DT-815
Sound Level Meter

815 Sound Level Meter is designed for noise project, quality control, illness prevention & cure and all kinds of environment sounds measurements. It is applied to the sounds measurement at factory, school, office, traffic access and household, etc.
This unit confirms to the IEC61672-1 class 2 for Sound Level Meter



Features

This unit confirms to the IEC61672-1 class 2 for Sound Level Meters
MAX & MIN measurements
Over range display
A & C Weighting
FAST & SLOW response
Digit LCD display with a resolution of 0.1dB , bargraph & white backlight
Readings memories

1.4dB Accuracy (805)

Level range: 30~130dB

CE
EMC
EN: 61326
EN: 61672-1





Model 815

Specifications

Standard applied	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB
Frequency range	31.5Hz ~ 8KHz
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med:50dB~100dB
	Hi:80dB~130dB Auto:30dB~130dB
Time weighting	FAST (125mS), SLOW (1s)
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Reading display update	2 times/sec
Bargraph display update	20 times/sec

Size(HxWxD): 210mm x 55mm x 32mm
Weight: 230g

Accessories :
9V battery, Carrying case and Gift box.

DT-805/805L Mini Sound Level Meters

Features

Provides 1.4dB accuracy (805); Provides 2.0dB accuracy (805L)
Meets IEC61672-1 Type 2 (805)
Newly Design Shape
High Performance
Max Hold and Data Hold Function

1.4dB Accuracy (805)

Level range: 30~130dB

Specifications

Level Range	Low = 30 ~ 100dB
	High = 60 ~ 130dB
Accuracy	±1.4dB (ref 94dB @ 1kHz)
Frequency Range	31.5Hz to 8kHz
Frequency Weighting	A, C
Time Weighting	Fast, Slow
Battery Type	9V Battery NEDA 1604, IEC 6F22, JIS 006P
Operation Temperature	0ºC~40ºC(<80%R.H.)
Storage Temperature	-10ºC~60ºC(<70%R.H.)

Size(HxWxD): 210mm x 55mm x 32mm
Weight: 230g



Model 805



Model 805L

CMM/CFM Thermo-Anemometer with IR temperature

Temperature | CFM CMM Air Flow | Backlight

Large LCD display

CFM/CMM Thermo-Anemometer with built-in non-contact IR Thermometer measure remote surface temperature to 500ºC (932ºF) and 30:1 distance to spot ratio.



Model 8893

EMC
EN: 61326

Features

- Simultaneous display of Air Flow or Air Velocity plus Ambient Temperature
- Easy to set Area dimensions (cm^2) are stored in the meter's internal memory for the next power on
- Resolution of 0.01m/sec
- 20 points average for Air Flow
- Super large (9999 counts) LCD Backlit Display
- 3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable
- Complete with vane sensor with 3.9ft (120cm) cable, 9V battery, and protective rubber holster
- MAX/MIN, Data Hold functions

Specifications

Air Velocity	Range	Accuracy	8893	8894
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s	*	*
ft/min(feet per minute)	80~5900	±3% ±40ft/min	*	*
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h	*	*
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH	*	*
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots	*	*
Air Temperature	-10-60ºC(14-140ºF)	± 2.0ºC(4.0ºF)	*	*
InfraRed Temperature	-50 to -20ºC(-58 to -4ºF)	± 5.0ºC(9.0ºF)		*
	-20 to 500°C(-4 to 932ºF)	±2% reading		*
Air Flow	Range	Area		
CFM	0-999900	0-999.9 ft^2	*	*
CMM	0-999900	0-999.9 m^2	*	*

Temperature | CFM CMM Air Flow | IR (T2) | Backlight



Model 8894

EMC
EN: 61326

Size(HxWxD): 203mm x 75mm x 50mm
Weight: 280g
Accessories :
9V battery, USB cable, software,
Anemo probe and Gift box with carrying case.

20 points average for Air Flow

Resolution of 0.01m/sec



CFM/CMM Thermo-Anemometer with built-in non-contact IR Thermometer measures remote surface temperature to 260ºC (500ºF) and 8:1 distance to spot ratio.

IR (T2) | Temperature | CFM CMM Air Flow | Backlight

- Multifunction Air Velocity Meter with wide temperature range (618/618B)
- CFM/CMM Thermo-Anemometer (619)
- CFM/CMM Thermo-Anemometer + InfraRed Thermometer (620)
- Max/Min/Avg value with relative time stamp (619/620)
- Low battery indication and Auto Power Off
- Display Air Flow (CFM/CMM), or Air Velocity plus Temperature simultaneously (619/620)

Model 620



EMC
EN: 61326

Resolution of 0.01m/sec
20 points average for Air Flow

Thermo- Anemometer with built-in non-contact IR Thermometer

Features

- Simultaneous display of Air Flow or Air Velocity plus Ambient Temperature(619/620)
- Easy to set Area dimensions (cm^2) are stored in the meter´s internal memory for the next power on(619/620)
- Resolution of 0.01m/sec (619/620)
- 20 points average for Air Flow (619/620)
- Super large LCD Backlit Display(618/619/620)
- 3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable(619/620)
- Type K sensor for temperature measurements (618/618B)
- High Sensitive and Accurate

DT-618/618B Thermo-Anemometer

Large LCD display



Specifications

Air Velocity	Range	Accuracy	618	618B	619	620
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s	*	*	*	*
ft/min(feet per minute)	80~5900	±3% ±40ft/min		*	*	*
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h	*	*	*	*
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH			*	*
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots	*	*	*	*
Air Temperature	-10-60ºC(14-140ºF)	± 2.0ºC(4.0ºF)	*	*	*	*
InfraRed Temperature	-50 to -20ºC(-58 to -4ºF)	± 5.0ºC(9.0ºF)				*
	-20 to 260°C(-4 to 500ºF)	±2% reading or ± 2ºC(4ºF)				*
Air Flow	Range	Area				
CFM	0-999900	0-999.9 ft^2			*	*
CMM	0-999900	0-999.9 m^2			*	*



Meter Size(HxWxD): 150mm x 72mm x 35mm
Weight: 210g (618/618B)
Accessories :
9V battery and Anemo probe, Gift box with carrying case.

DT-619 CFM/CMM Thermo-Anemometer

CFM/CMM Thermo-Anemometer



DT-3893
CFM/CMM Thermo-Anemometer

Temperature | CFM CMM Air Flow | Backlight

CFM/CMM Thermo-Anemometer remote sensor is the most popular model for HVAC applications.

CE
EMC
EN: 61326

High Quality Sensor



Model 3893

Features

Display Air Flow (CFM/CMM), or Air Velocity plus Temperature & Max/Min/Avg value
Easy to set Area dimensions (cm^2) stored in the meter´s internal memory for the next power on
Resolution of 0.01m/sec
20 points average for Air Flow
Super large LCD Backlit Display
3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable
Low battery indication and Auto Power Off

Specifications

Air Velocity	Range	Accuracy
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s
ft/min(feet per minute)	80~5900	±3% ±40ft/min
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots
Air Temperature	-10~60ºC(14~140ºF)	± 2.0ºC(±4.0ºF)
Air Flow	Range	Area
CFM	0-999900	0-999.9 ft^2
CMM	0-999900	0-999.9 m^2



Size(HxWxD): 160mm x 62mm x 21mm
Weight: 200g
Accessories :
9V battery and Anemo probe, Gift box with carrying case.

DT-317/317B/318/318B Flexible Thermo-Anemometers

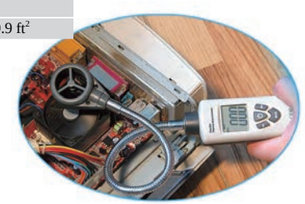
Features

16″ inch Gooseneck detector is easy to measure the hard-to-reach areas.
High Sensitive and Accurate
Easy-to-use design
Double LCD digital display
Low power consumption
Data Hold and MAX Hold function
Low battery indication

16″ inch Gooseneck detector

Specifications

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	1.0~30.00	0.01	±3% ±0.20m/s
ft/min(feet per minute)	196~5900	1	±3% ±40ft/min
km/h(kilometers per hour)	3.6~108.0	0.1	±3% ±0.8km/h
MPH(miles per hour)	2.2~67.0	0.1	±3% ±0.4MPH
Knots(nautical miles per hour)	1.9~58.0	0.1	±3% ±0.4knots
Air Temperature	-10~60ºC(14~140ºF)	0.1ºC/ºF	± 2.0ºC(4.0ºF)
Air Flow	Range	Resolution	Area
CFM (317B/318B)	0-999900	0.1	0-999.9 ft^2





Model 317 Model 318

Size(HxWxD): 163mm x 45mm x 34mm **Weight:** 210g
Accessories : 9V battery and Anemo probe, Gift box with carrying case.

DT-3880/3880A/8880
Hot Wire Anemometer

Temperature | CFM CMM Air Flow | Backlight

High Quality Sensor

3880/8880/8880A/8880B Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 4925ft/min.



Model 8880

Specifications

Air Velocity	Range	Resolution	Accuracy	3880	3880A	8880
m/s (meter per second)	0.1~25.0m/s	0.01m/s	±5% ±0.1m/s	*	*	*
km/h(kilometers per hour)	0.3~90.0km/h	0.1km/h	±5% ±0.1km/h	*	*	*
ft/min(feet per minute)	20~4925ft/min	ft/min	±5% ±1ft/min	*	*	*
MPH(miles per hour)	0.2~55.8MPH	MPH	±5% ±0.1MPH	*	*	*
Knots(nautical miles per hour)	0.2~48.5knots	0.1knots	±5% ±0.1knots	*	*	*
Air Temperature Range	0ºC to 50ºC (32ºF to 122ºF)	0.1ºC/0.1ºF	1ºC/1.8ºF	*	*	*

Features

Thermal anemometer, available for very low air velocity measurement.
Slim probe, ideal for grilles & diffusers.
Combination of hot wire and standard thermistor, deliver rapid and precise measurements
Records maximum/minimum readings with recall & data hold function.
Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
Super large LCD display with backlight, reading the air velocity & temp. at the same time.
The portable anemometer provides fast, accurate readings, with digital readability
Multi-functions for air flow measurement: m/s, km/h, ft/min, MPH, Knots & build in temperature ºC / ºF
Thermistor sensor for Temperature measurement, fast response time.
Applications: Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity,
Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case and Paint spray booths.
Datalogger function (3880A)

Size(HxWxD): 198mm x 78mm x 51mm (8880), 160mm x 62mm x 21mm (3880)
Weight: g (8880), 200g (3880)
Accessories : 9V battery and Anemo probe, Gift box with carrying case.
3.7V Li-ion battery (3880), power adaptor.





CE
EMC
EN: 61326



Model 3880

DT-1880/1880A

Hot Wire Anemometer with Datalogger

Temperature | CFM CMM Air Flow | Backlight | DATA LOGGER

Made for iPod iPhone iPad

1880 Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 20m/s.

Features		
	1880	1880A
Smart phone APP		*
Single-point and continuous data log options	*	*
Velocity alarm	*	*
A bluetooth telescopic probe	*	*
LED backlight	*	*
Auto power off	*	*
Low-battery indication	*	*
Data hold	*	*
Probe sensor cover	*	*
Bluetooth communication		*





High Quality Sensor

Bluetooth



Meterbox Pro

CE

EMC
EN: 61326

Specifications			
Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	0.1~20m/s	0.01m/s	±5%+0.03 m/s
ft/min(feet per minute)	20~3937ft/min	1ft/min	±5%+6ft/min
km/h(kilometers per hour)	0.3~72km/h	0.1km/h	±5%+0.1 km/h
MPH(miles per hour)	0.2~44.7MPH	0.1MPH	±5%+0.1 MPH
Air Temperature	-20～60℃ (-4～140℉)	0.1℃/0.1℉	0.5℃(0～45℃), 1.0℃ (rest of range) 1.0℉(32～113℉),2.0℉(rest of range)
Relative Humidity	0～100%RH	0.1%RH	±3.5%RH

Size(HxWxD): 165mm x 60mm x 40mm
Weight: 320g

Accessories : 3.7V Lithium battery, Gift box with carrying case.







Model 1880

DT-3890/3890A/3890B

Differential / Absolute Pressure Manometers

Pressure | PC interface | Backlight

3890A is an absolute pressure measuring instrument. It is normally used to measure absolute pressure, e.g. for pressure compensation in velocity measurement in ducts, laboratories and production processes. Further measurement parameters are barometric (surface) pressure (= pressure at sea level) and altitude above sea level.

3890/3890B are Differential Pressure Manometers with large LCD display.

CE

EMC
EN: 61326

Features
Large Dual LCD with backlight
Data Hold
Max / Min / Avg value with relative time stamp
USB interface
Zero Adjust, Offset and DIF function (3890/3890B)
Low battery indication and Auto Power Off

High resolution & Accuracy

Small range manometer



Model 3890

Specifications						
	3890 (Differential)		3890A(absolute)		3890B (Differential)	
Accuracy	±0.3%FSO		±2hpa		±0.3%FSO	
Repeatability	±0.2% (Max.+/ -0.5% FSO)				±0.2% (Max.+/ -0.5% FSO)	
Linearity/Hysteresis	±0.29% FSO				±0.29% FSO	
Pressure Range	±2PSI(±55.40inH2O)		300～1200hpa		±5PSI(±138.3inH2O)	
Units and Resolution	inH2O	0.01	psi	0.001	inH2O	0.1
	PSI	0.001	hPa	0.1	PSI	0.001
	mbar	0.1	Pa	1	mbar	0.1
	kPa	0.01	mbar	0.1	kPa	0.01
	inHg	0.001	mmHg	0.1	inHg	0.001
	mmHg	0.1	inHg	0.001	mmHg	0.1
	ozin2	0.01	mmH2O	1	ozin2	0.01
	ftH2O	0.001	inH2O	0.01	ftH2O	0.01
	cmH2O	0.1			cmH2O	0.1
	kgcm2	0.001			kgcm2	0.001
	bar	0.001			bar	0.001





Sensor input



USB Interface

Size(HxWxD): 184mm x 60mm x 30mm
Weight: 280g

Accessories : 3xAAA 1.5V batteries, USB cable, gift box with carrying case.



Model 3890A

DT-8890/8890A/8890B/8890C/8890D/8890E/8890F/8890G

Differential Pressure Manometers

Pressure | PC interface | Backlight

High resolution & Accuracy

Small range manometer

The device measures Gauge/Differential Pressure , it features 11 selectable units of measurement: inH_2O , psi, bar, mbar, kPa , inHg , mmHg ,ozin,ftH_2O , cmH_2O, kgcm. Additional features including Data Hold, Auto Power Off disabled , and an USB for capturing reading to a PC using optional software . Careful use of this meter will provide years of reliable service.

8890B measures Differential Pressure from –20Pa to+20Pa and connect to the printer GPT-4379 with USB interface.

8890C measures Gauge/Differential Pressure from -13.86 inH_2O to +13.86 inH_2O (0.5 psi)



Model 8890



Model 8890D



Sensor input



USB Interface



Features

Large Dual LCD with backlight
Data Hold
Max / Min / Avg value with relative time stamp
Optional USB software
Zero Adjust, Offset and DIF function
Low battery indication and Auto Power Off

Specifications

	8890		8890A		8890B		8890C		8890D		8890E		8890F		8890G	
Accuracy	±0.3%FSO															
Repeatability	±0.2% (Max.+/ -0.5% FSO)															
Linearity/Hysteresis	±0.29% FSO															
Pressure Range	±5PSI (±138.3 inH_2O)		±2PSI (±55.40 inH_2O)		±0.5PSI (±13.83 inH_2O)		±20PSI (±554.0 inH_2O)		±29PSI/ (±2bar)		±72.5 psi (±5bar)		±72.5 psi (±5bar)		±145 psi (±10bar)	
Units and Resolution	inH_2O	0.1	inH_2O	0.01	inH_2O	0.01	inH_2O	0.01	psi	0.01	psi	0.01	psi	0.1	psi	0.1
	PSI	0.001	PSI	0.001			PSI	0.001	bar	0.001	bar	0.001	bar	0.01	bar	0.01
	mbar	0.1	mbar	0.1	mbar	0.001	mbar	0.01	kpa	0.1	kpa	0.1	kpa	0.1	kpa	0.1
	kPa	0.01	kPa	0.01	Pa	0.1	kPa	0.001	inHg	0.01	inHg	0.1	inHg	0.1	inHg	0.1
	inHg	0.001	inHg	0.001	inHg	0.0001	inHg	0.001	mHg	0.001	mHg	0.001	mHg	0.001	mHg	0.001
	mmHg	0.1	mmHg	0.1	mmHg	0.001	mmHg	0.01	inH2O	0.1	inH2O	1	inH2O	1	inH2O	1
	ozin^2	0.01	ozin^2	0.01			ozin^2	0.01	ftH2O	0.01	ftH2O	0.1	ftH2O	0.1	ftH2O	0.1
	ftH$_2$O	0.01	ftH$_2$O	0.001			ftH$_2$O	0.001	mH2O	0.01	mH2O	0.01	mH2O	0.01	mH2O	0.1
	cmH$_2$O	0.1	cmH$_2$O	0.1	cmH$_2$O	0.001	cmH$_2$O	0.01	mbar	1	mbar	1	mbar	1	mbar	1
	kgcm	0.001	kgcm	0.001			kgcm^2	0.001								
	bar	0.001	bar	0.001			bar	0.001								

Size(HxWxD):
210mm x 75mm x 50mm
Weight: 280g
Accessories : 9V battery, USB cable, Software, soft tube and gift box with carrying case.



Model 15

DT-15 Compact Digital Pressure Temperature Chart

15 is a compact digital pressure temperature chart. This pocket sizes device offers fast and accurate temperature references on a large and easy-to-read LCD display. The automatic power down feature shuts the unit off five minutes after the last command to ensure extended battery life.

Size(HxWxD): 114mm x 50mm x 23mm
Weight: 60g
Accessories :
CR2032 button battery and clamshell.

DT-8897/8897H

Differential Pressure Manometer & Flow Meter

Pressure | CFM CMM Air Flow | Backlight

8897/8897H measures Gauge/Differential Pressure , Air Velocity, Air Flow and temperature.

- Hot wire anemometer(8897H) .
- Large LCD display with backlight.
- Relative time clock on MAX MIN and AVG provides a time reference for measurement.
- Pressure measurement provides Zero Adjust and DIF function.
- Display Pressure, Air Velocity or Air Flow plus Temperature simultaneously.
- Easy to set Area dimension (up to 8 point).
- USB interface, USB to UART Bridge Controller.
- Low battery indication, and Auto Power Off mode (Sleep mode) increases battery life.

CE
EMC
EN: 61326



Model 8897H

Manometer Specifications (8897/8897H)

Accuracy	±0.3%FSO	
Repeatability	±0.2% (Max.+/ -0.5% FSO)	
Linearity/Hysteresis	±0.29% FSO	
Pressure Range	±2psi (±55.40 inH_2O)	
	Units	Range/Resolution
Units and Resolution	psi	2.000/0.001
	mbar	137.8/0.1
	kPa	13.78/0.01
	inHg	4.072/0.001
	mmHg	103.4/0.1

2 in 1

Differential Pressure Manometer & Anemometer

Flow meter Specifications

Air Velocity	Range	Resolution	Basic Accuracy	8897	8897H
m/s(meter per second)	0.40~30.00	0.01	±3% ±0.20m/s	*	
	0.1~25.0	0.01	±5% ±1m/s		*
ft/min(feet per minute)	80~5900	1	±3% ±40ft/min	*	
	20~4925	1	±5% ±1ft/min		*
km/h(kilometers per hour)	1.4~108.0	0.1	±3% ±0.8km/h	*	
	0. 3~90. 0	0.1	±5% ±1km/h		*
MPH(miles per hour)	0.9~67.0	0.1	±3% ±0.4MPH	*	
	0. 2~55. 8	0.1	±5% ±1MPH		*
Knots(nautical miles per hour)	0.8~58.0	0.1	±3% ±0.4knots	*	
	0. 2~48. 5	0.1	±5% ±1knots		*
Temperature ºC	0 to 50.0ºC	0.1	±1.0ºC	*	*
Temperature ºF	32.0 to 120.0ºF	0.1	±2.0ºF	*	*
Air Flow	Range	Resolution	Area	*	*
CFM (CFM=ft^3/min)	0-999,900ft^3/min	0.001~100	0-999.9 ft^2	*	*
CMM (CMM=m^3/min)	0-999,900m^3/min	0.001~100	0-999.9 m^2	*	*

Size(HxWxD): 210mm x 75mm x 50mm
Weight: 280g

Accessories :
9V battery, USB cable, software, Anemo probe, Soft tube and gift box with carrying case





Model 8897



Model 8920

CE
EMC
EN: 61326

8920 is a Pressure and flow meter simultaneously with an easy-to-read, large, backlit LCD display. Measurement data is printed on site with minimum and maximum values. It can monitor air pressure across key HVAC components and promote good indoor air quality, which ensure proper air flow balance and maintain a comfortable environment.

Features

Large LCD display with backlight.
Relative time clock on MAX MIN and AVG provides a time reference for measurement.
Pressure, velocity or air flow measurement provides Zero Adjust.
Display pressure, Air velocity or air flow plus environment temperature simultaneously.
Easy to calculate the area of a rectangular or circular duct.
USB interface, USB to UART Bridge Controller.

Specifications

Manometer			
Accuracy	±0.3%FSO (25°C)		
Repeatability	±0.2% (Max.±0.5% FSO)		
Linearity/Hysteresis	±0.29% FSO		
Pressure Range	±5000Pa		
Maximum Pressure	10psi		
Response Time	0.5 Seconds typical		
Over range Indicator	OL		
Under range Indicator	-OL		
Measurement	Units	Range	Resolution
	PSI	0.7252	0.0001
	mbar	50.00	0.01
	inH_2O	20.07	0.01
	mmH_2O	509.8	0.1
	Pa	5000	1Pa (0.1Pa only 8920B)
Air Velocity			
	Range	Resolution	Accuracy
m/s(meter per second)	1-80.000	0.001	±2.5% of reading at 10.00m/s
ft/min(feet per minute)	200-15733	1	Accuracy is function of velocity and duct size
km/h(kilometers per hour)	3.5-288.0	0.1	
MPH(miles per hour)	2.25-178.66	0.01	
Knots(nautical miles per hour)	2.0-154.6	0.1	
Air Flow			
	Range	Resolution	
CFM	0-99999ft^3/min	0.0001 to 100	
CMM	0-99999m^3/min	0.001 to 100	
Temperature			
	Range	Resolution	Accuracy
°C	0 to 50.0°C	0.1	±1.0°C
°F	32.0 to 122.0°F	0.1	±2.0°F

Size(HxWxD): 212mm x 78mm x 51mm
Weight: 338g

Accessories :
9V battery, USB cable, software, pitot tube, Gift box with carrying case.



HVAC Superheat and Subcooling Analyzer can be used for various refrigerants, automatically calculating superheating/subcooling and can be connected to your smartphone/tablet via App (8922). You can also monitor the analyzer via your smartphone/tablet and to store the measurement results or send them by e-mail as a complete report(8922).

Measures suction line or liquid line pressure and line temperature to calculate and display superheat and subcooling for A/C.

- R-22 or R-410A
- Digital LCD display in ºF/ºC
- Digital LCD displays pressure in PSI/kPa

CE
EMC
EN: 61326
Bluetooth



Model 8922

Features

Quick, accurate measurement of high and low pressure with two temperature-compensated pressure sensors; automatic measurements of the evaporation and condensation temperature
Two temperature inputs for attaching temperature pipe clamp probes providing the simultaneous calculation of superheating and subcooling: this means you can do away with any error-prone manual calculations and get a reliable result straight away
Including 2 hoses (red, yellow), suitable for all common refrigerants
Two pipe clamp temperature probes included in the scope of delivery: when clamped directly onto the pipes, these enable reliable mea surement of the pipe temperature
Various refrigerants stored in the instrument: just one instrument covers all the most important refrigerants.
Bluetooth interface(8922)
3.5" TFT color LCD display(8922)

Specifications

Temperature	Range (temperature): -40ºC to 204ºC/-40ºF to 400ºF;
	Resolution: 0.1º;
	Sensor type: Dual k-type thermocouple input;
	Accuracy:±1ºC/±1.8ºF;
Pressure and vacuum	Working range (pressure):0 to 500 psi; 0 to 4000 kPa
	Resolution: 0.1psi or kPa, 0.1"Hg or cmHg vac.
	Accuracy: ±1 psi/±6.9 kPa;
	Sensor breakdown pressure: 800psi (5500 kPa)
Superheat	Range (temperature): 0ºF to 80ºF; 0ºC to 27ºC
	Resolution: 0.1º;
	Accuracy: ±1ºC/±1.8ºF;
Subcooling	Range (temperature): 0ºF to 80ºF; 0ºC to 27ºC
	Resolution: 0.1º;
	Accuracy: ±1ºC/±1.8ºF;

Size(HxWxD): 212mm x 78mm x 51mm
Weight: 338g
Accessories : Li-ion battery, K-type thermocouple, Gift box.





Model 8921

AT-8/AT-10 Contact/Non-contact Digital Tachometers



Model AT-10

Model AT-8

Contact/Laser Photo

CE

EMC
EN: 61326

AT-8/AT-10 Digital Tachometer provides fast and accurate contact and non-contact RPM and surface speed measurements of rotating objects.

- Wide measurement range and high resolution
- 40 readings memories
- Built-in laser pointer
- 5 digits LCD display



Specifications

	AT-8	AT-10
Contact test range	2 to 20,000 RPM	2 to 20,000 RPM
Non-contact test range	2 to 99,999 RPM	2 to 200,000 RPM
Tot test range	1 to 99,999 RPM	1 to 200,000 RPM
Accuracy	±(0.05% + 1digit)	±(0.05% + 1digit)
Resolution	0.1RPM(2 to 9999.9 RPM) 1RPM(over 10000 RPM)	0.001RPM to 1RPM
Sampling time	0.5 sec.(over 120 RPM)	0.5 sec.(over 120 RPM)
Detecting distance	50 mm to 500 mm	50 mm to 2500 mm
Time base	Quartz crystal	Quartz crystal
Power consumption	Approx. 45mA	Approx. 45mA
Battery	9V	9V



Size(HxWxD): 160mm x 60mm x 42mm
Weight: 160g

Accessories:
9V battery and Gift box with carrying case.

AT-6 Digital Tachometer

AT-6 Digital Tachometer provides fast and accurate non-contact RPM and TOT measurements of rotating objects. Using reflective tape on object to be measured and pointing with the laser.



Model AT-6

Non-Contact

CE

EMC
EN: 61326

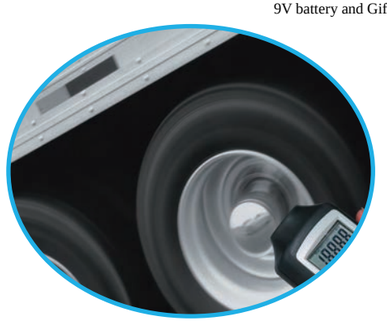


Features

Display	Large 5 digit LCD display
Accuracy	±0.05%±1d
RPM Range	2 to 99,999
Max RPM Resolution	0.1RPM
TOT Range	0-99,999
Memory	Built-in memory recalls Max/Min/Last

Size(HxWxD): 160mm x 60mm x 42mm
Weight: 151g

Accessories:
9V battery and Gift box with carrying case.



6234B/6236B is with Fast and accurate RPM and surface speed measurements. 6234B Digital Tachometer provides fast and accurate Non-contact RPM and surface speed measurements of rotating objects. Using reflective tape on object to be measured and pointing the integral light beam or laser. 6236B contact Tachometer combines both contact and non-contact models for use in all applications.

- Large 5 digits LCD display is easy to read.
- Autoranging with 0.05% accuracy
- Built-in memory recalls last Max/Min value stored

Features

	6234B	6236B
Large 5 digits LCD display	*	*
Autoranging with 0.05% accuracy	*	*
Built-in memory recalls last Max/Min value stored	*	*
Non-contact measurement	*	*
Contact measurement		*

Specifications

	6234B	6236B
Display Counts	99,999 counts LCD	99,999 counts LCD
Range RPM	2.5 to 99,999	5 to 99,999
M/min		0.05 to 1999,9
Basic Accuracy	±0.05%±1d	±0.05%±1d
Max RPM Resolution	0.1RPM	0.1RPM

Size(HxWxD): 160mm x 72mm x 37mm
Weight: 200g

Accessories:
6236B: Cone, RPM sensor tip, Surface speed wheel, Four 1.5V “AA” batteries, Gift box with carrying case.
6234B: Reflective tape, Four 1.5V “AA” batteries, Gift box with carrying case.

Non-Contact

CE

EMC
EN: 61326



Model 6234B



Contact/Laser Photo



Model 6236B

AT-86F/AT-86V High Accuracy Tachometer Adaptors

High accuracy tachometer adaptors are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

- AT-86F Output signal is pulse frequency output signal;
- AT-86V Output signal is analog voltage signal.

Specifications

Measurement range	6 to 120,000RPM
Accuracy	±0.5%
Detection distance	50 to 500mm
Consumption	Approx. 15mA

Size(HxWxD): 166mm x 50mm x 40mm
Weight: 189g
Accessories:
9V battery and clamshell.







Light Meter with PC Interface



Features

4000 Counts LCD dual display with timer function
Auto Ranging
Max./Min. and Data Hold
Auto Power Off
Low battery indication
User selectable FC/Lux
USB interface
Capacity for data logging (99 readings)
Total accuracy: for C.I.E standard illuminate A(2856K)

Specifications

Max Range	400,000Lux
Accuracy	±5%±10d(<10,000Lux)
	±10%±10d(>10,000Lux)
Max Resolution	0.1Lux/0.01Fc
Measuring rate	1.5 times/second
Photo Detector	115mm x 60mm x 27mm

Size(HxWxD): 160mm x 58mm x 27mm
Weight: 280g

Accessories :
9V battery, Photo Detector and USB cable, software, Carrying case and Gift box.

LED Light Meter

Measures light from visible luminaries equipped with white light LED, fluorescent, meatal halide, high-pressure sodium and incandescent sources



Model 3809

UV-1302 UV Light Meter

UV-1302 is midrange and long wave UV measurement

- Measures UV spectrum from 290 to 390nm
- Includes sensor probe
- LCD display range: 1.999 to 19,990 μW/cm²
- Accurate to ±4% of full scale



Accessories :
One 12V (A23) battery and
One photo detector.



CE
EMC
EN: 61326

Features

According to JISC1609:1993 and CNS 5119 general A class specifications.
Spectral response close to CIE luminous spectral efficiency.
Measuring intensities of illumination in unit of Lux or Foot-candle.
Measuring lights source include all visible range.
99 records storage.
Cosine angular corrected.
Length of wire for light sensor: approximately 1.5M.

Specifications

Light Source Selecting	Tungsten/Daylight, Fluorescent, 0~9 select rating
Measuring range	40, 400, 4,000, 40,000, 400,000 Lux,
	40, 400, 4,000, 40,000, Foot-candle
Accuracy	+/-3% (Calibrated to standard incandescent lamp 2856°K and corrected LED day while-light spectrum) . +/-6% other visible light source.

Size(HxWxD): 160mm x 58mm x 27mm
Weight: 280g

Accessories :
9V battery, Gift box.

DT-8808/8809A
Professional Light Meters



- Over-range indication
- Long life silicon photo diode inside
- Measurement rate:1.5 times per second
- Widest rang to 40,000FC/400,000lux



USB Interface (8809A)

Widest range to 40,000Fc/ 400,000 Lux

8808/8809A light meters provide accurate display light level in terms of Foot Candles (FC) or LUX over wide range. Just turning the Function Switch to select the “lux” scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance norminal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

Features

	8808	8809A
LCD display counts	4000	4000
Auto Ranging	*	*
Analog bargraph/segments	41-segments	41-segments
Peak Hold	*	*
Relative mode	*	*
Max and Data Hold	*	*
Auto Power Off	*	*
Low battery indication	*	*
User selectable FC/Lux	*	*
Output		USB
Capacity for data logging 99		*
Total accuracy: for C.I.E standard illuminate A(2856K)		

Specifications

	8808	8809A
Max. Range	400,000Lux	400,000Lux
Accuracy	±5%±10d(<10,000Lux)	±3% rdg ±5% f.s.(<10,000Lux)
	±10%±10d(>10,000Lux)	±4%rdg ±10d(>10,000Lux)
Max. Resolution	0.1Lux/0.01Fc	
Measuring rate	1.5 times/second	
Photo Detector	115mm x 60mm x 27mm	

Size(HxWxD): 203mm x 75mm x 50mm **Weight:** 280g

Accessories : 9V battery, Photo Detector and USB cable(8809A), software(8809A), Carrying case and Gift box.

DT-1300/1301 Light Meters









Model 1301

EMC
EN: 61326

1300/1301/1308/1309 are easy to use with pocket size and light weight, providing accurate display light level in terms of Foot Candles (FC) or LUX over wide range. Just turning the Function Switch to select the “lux” scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance norminal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

Features

	1300	1301
LCD display counts	2000	2000
Peak Hold	*	*
Max and Data Hold		*
Auto Power Off		*
Low battery indication	*	*
User selectable FC/Lux		*
Total accuracy: for C.I.E standard illuminate A(2856K)		

Specifications

Max. Range	50,000lux/Fc(1300,1301); 400,000Lux(1308)
Accuracy	±5%±10d(<10,000Lux)
	±10%±10d(>10,000Lux)
Max. Resolution	0.1Lux/0.01Fc
Measuring rate	1.5 times/second
Photo Detector	115mm x 60mm x 27mm

Accessories : One 12V (A23) battery and One Photo Detector,
Carrying case and Gift box.

DT-1308/1309
Light Meters

1308/1309 are easy to use with pocket size and light weight, providing accurate display light level in terms of Foot Candles (FC) or LUX over wide range. Just turning the Function Switch to select the “lux” scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance norminal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

- Over-range indication
- Long life silicon photo diode inside
- Measurement rate:1.5 times per second

Widest range to 40,000Fc/ 400,000 Lux









Model 1308

Features

	1308	1309
LCD display counts	4000	4000
Auto Ranging	*	*
Analog bargraph/segments	41-segments	41-segments
Peak Hold	*	*
Relative mode	*	*
Max and Data Hold	*	*
Auto Power Off	*	*
Low battery indication	*	*
User selectable FC/Lux	*	*
USB interface		*
Total accuracy: for C.I.E standard illuminate A(2856K)		

Specifications

Max. Range	50,000lux/Fc(1300,1301); 400,000Lux(1308)
Accuracy	±5%±10d(<10,000Lux)
	±10%±10d(>10,000Lux)
Max. Resolution	0.1Lux/0.01Fc
Measuring rate	1.5 times/second
Photo Detector	115mm x 60mm x 27mm

Accessories : One 9V battery and One Photo Detector (1308/1309)
Carrying case and Gift box.

DT-1307 Solar Power Meter

Features

Sunlight measurement up to 1999w/m^2 or 634BTU/(ft^2*h)
High accuracy and rapid response
Data Hold function to hold measurement values
Unit and sign display for easy reading
Measuring unit selection among w/m^2 and BTU/(ft^2*h)
Manual scale selection
Direct reading with no adjustments needed
Maximum and minimum values
Low battery indication

Specifications

Display	3-1/2 digits LCD with maxmum reading 1999.
Range	1999W/m^2,634BTU/(ft^2*h)
Resolution	1W/m^2;1BTU/(ft^2*h).
Accuracy	typically within ±10W/m^2 [±3BTU/(ft^2*h)]or ±5%
Sampling time	Approx 0.25 second.

Size(HxWxD): 162mm x 63mm x 28mm
Weight: 176g

Accessories :
One 9V battery and One Photo Detector
Carrying case and Gift box.

EMC
EN: 61326



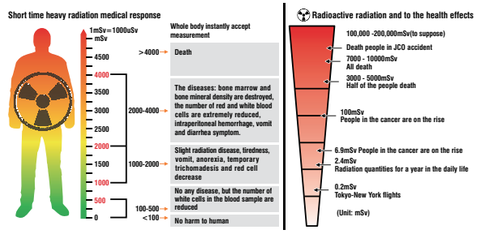
Model 1307

DT-9501/9502
Radiation Scanner

Backlight | PC interface

9501/9502 radiation scanner is a tested precision instrument, reliably measures not only γ rays, but α、β and X rays as well. It allows multifuctions such as dose accumulating, maximum recording, hand-operated store, data transfer to PC in real-time, data analysis etc. Low power consumption ensures that the testing data will be not lost for several years.







Model 9502

Features	9501	9502
Large LCD display	*	
TFT color display		*
High precision	*	*
Internal memory	*	*
Data evaluation by PC	*	*
Low power consumption	*	*
Bluetooth interface	*	*
Date reset	*	*
Threshold for Dose Rate		*
ONLINE/ REAL TIME Function		*
The user can set an acoustical ticker which activates with each gamma pulse detected		*

Specifications	
Ray types	α, β, γ and X rays
Range	Radiation dose rate: 0.01μSv/h - 1000μSv/h
	Impulse dose rate: 0-30,000cpm, 0-5,000cps
	Radiation dose accumulation: 0.001μSv –9999Sv
	Impulse dose accumulation: 0-9999
Sensitivity	108pcs impulse or 1000 cpm/mR/hr in Cobalt-60 radial environment with power of 1μSv/h.
	Alpha ray: from 4 MeV
	Beta ray: from 0.2 MeV
	Gamma ray: from 0.02 MeV
	X ray: from 0.02 MeV
Ray selection switch	α, β, γ and X rays selection
Sensor	Halogen filled detector
Output port	Bluetooth
Display	Dual LCD display, numeric with all inspection data, with bar chart.
Alert	Can set alert value free, default set:5μSv/hr
Accuracy	Typical 15%
Storage	Can store 2000 data automatically or by manually
Detector working temperature	0℃ to 50℃

Size(HxWxD): 200mm x 70mm x 45mm (9501), 205mmx102mmx65mm(9502)
Weight: 206g
Accessories : Software, Carrying case and Gift box.



Model 9501

EMC
EN: 61326

Bluetooth



9501 is with bluetooth function for data tranferring, analysis,editting, storage and sharing



The top of 9501 can be rotated and easily used for α, β, γ and X rays selection

RM-190
Radiation Scanner

This product is a built-in high sensitivity reform counter as a detector of radiation dose monitoring instrument,mainly used to monitor all kinds of radioactive workplaces of X, Beta, Gamma ray radiation, with high sensitivity fast response, accurate measurement, wide range and so on.
Widely used in nuclear power plant, iron and steel chemical industry, radiation processing enterprises, radiation therapy, reflex laboratory, home decoration radiation and other fields of staff for personal safety protection monitoring.

Backlight

EMC
EN: 61326

Features
Monitor X β γ rays, high sensitivity, fast response time
Measure the dose rate in real time and record the cumulative dose
Over dose alarm, dose rate and metering rate alarm threshold adjustable
With time calendar function
Buzzer alarm function
Low power display function

Specifications	
Sensor	Energy Compensation GM Tube (Geiger Counter Meter)
Detection ray	X, β, γ radial
Range	0.01 ~ 9999 μSv/h
Accuracy	≤±10% (^{137}Cs 1mSv/h)
Resolution	0.01 μSv/h
Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 60°C
Power supply	3.7V rechargeable battery

Size(HxWxD): 158mm x 56mm x 40mm **Weight:** 237g
Accessories: Gift box with carrying case





Model RM-190

RM-180 Radiation Dose Monitoring Instrument

This product is a built-in high sensitivity reform counter as a detector of radiation dose monitoring instrument,mainly used to monitor all kinds of radioactive workplaces of X, Beta.Gamma ray radiation, with fast response, accurate measurement, wide range and so on.
Widely used in nuclear power plant, iron and steel chemical industry, radiation processing enterprises, radiation therapy, reflex laboratory, home decoration radiation and other fields of staff for personal safety protection monitoring.

Bluetooth



Model RM-180

EMC
EN: 61326

Features

- Monitor X β y rays, high sensitivity, fast response time
- Real-time measurement, with the ability to view alarm history data
- Bluetooth app function
- Real-time value, Maximum value, Average value, and Cumulative value
- Buzzer alarm function
- Adjustable auto-shutdown mode,Adjustable auto-sleep mode,Adjustable sleep mode
- Adjustable real-time value alarm threshold
- 3.7V rechargeable battery

Size(HxWxD): 210mm x 67mm x 38mm
Weight: 180g
Accessories: gift box with carrying case.

Specifications	
Sensor	Energy Compensation GM Tube (Geiger Counter Meter)
Detection ray	X, β, y radial
Range	Real-time value range: 0.01~10000 μSv/h
	Maximum value range: 0.01~10000 μSv/h
	Average value range: 0.01~10000 μSv/h
	Cumulative value range: 0.01~10000 μSv
Resolution	0.01uSv/h
Accuracy	<±10% (^{137}Cs 1mSv/h)
Energy response	48keV~1.5MeV
Data transmission	Bluetooth
Operating Temperature	0~40°C/32°F~104°F
Storage Temperature	-10°C~60°C/14°F~140°F

RN-190
Radon Monitor

RN-190 is a Radon Monitor ,it is an instrument used to measure and detect the concentration of radon in the environment. Radon is a colorless, odorless radioactive gas, and long-term exposure to high concentrations of radon may cause health effects. Using a radon detector can help you monitor and control radon concentrations to ensure indoor air quality. It has the characteristics of high sensitivity, fast response, accurate measurement, and wide range. It can display the average radon level over the 24 hours, 7 days, 30days and 365 days.



Model RN-190

CE
EMC
EN: 61326
EN: 61010-1

Features

Monitoring Radon Gas detection, high sensitivity, fast response time
Display daily, weekly, monthly and annual average radon concentrations
Display two different units, Bq/m^3 and pCi/L
Low power and Long endurance
Automatic fault detection
Display long term average and short term average

Specifications

Function	Range	Resolution	Accuracy
Radon Gas detection	0 ~ 9999Bq/m^3 (0~500pCi/L)	1 Bq/m^3 (0.03pCi/L)	After 7 days: ±10% After 2 months: ±5%
Detection principle	Alpha Spectral method		
Operating Temperature	0~40°C/32°F~104°F		
Storage Temperature	-10°C~60°C/14°F~140°F		

Size(HxWxD): 210mm x 67mm x 38mm **Weight:** 190g
Accessories: 9V battery, gift box with carrying case.

RN-180 Radon Gas Detector



Model RN-180

CE
EMC
EN: 61326



RN-180 is a Radon Gas Detector. It can display the average radon level over the 24 hours, 7 days, and 365 days.

Features:

- Rechargeable battery
- Digital LCD display with backlight
- Low-battery indication

Specifications

Function	Range	Accuaacy
Radon Gas detection	up to 250 Bq/m³	5%±5 Bq/m³
Minimum measurement time	1 hour	
Battery	Rechargeable lithium battery DC3.7V	
Operating/Storage Temperature	32° to 104°F (0° to 40°C)	
Operating/Storage Humidity	<95% relative humidity	

Size(HxWxD): 114mm x 60mm x 36mm **Weight:** 160g
Accessories : 3.7V lithium battery, gift box.

DT-2G Microwave Leakage Detector/DT-3G Magnetic Field Meter



Model 2G



Model 3G

CE
EMC
EN: 61326

The 2G is a high sensitive product to detect the microwave accurately, even at a low volume the injury of the radiation of microwave.

The 3G is capable of measuring the electromagnetic field radiation intensity that is produced from electric transmission equipment, power line, electric oven, air conditioner, refrigerator, computer monitor, video/audio device and so forth.

- Digital LCD display with white backlit
- Leakage volume in dangerous zone will sound beeping and a red lamp flashing(2G)
- Low leakage volume display for warning
- Max. hold function



Specifications

	2G	3G
Range	0- 9.99 mW/ cm^2	200/2000mG,20/200μT
Warning values	5.0mW/cm^2	Frequency response: 30Hz-300Hz
Sample rate	2 times per second	2 times per second

Size(HxWxD): 160mm x 60mm x 42mm **Weight:** 151g
Accessories: 9V battery and Gift box with carrying case.

EMF-60
Electromotive Force Detector

The EMF-60 is an instrument designed to detect and measure the intensity of electromagnetic radiation.Electromagnetic radiation has become an invisible “killer” endangering human health, long-term,excessive electromagnetic radiation will lead to harm the human nervous system and immune system.Computers, home appliances, mobile phones, etc., are the largest source of electromagnetic radiation.

This product is used to measure electromagnetic radiation. It is easy to operate,easy to use and fast, and can be used for daily environmental monitoring in residential areas, families, workshops, workplaces and other places. it has three measurement modes and four units to accurately measure the amount of electromagnetic radiation in the environment.

Features

Three electromagnetic radiation detection modes
Four units of electromagnetic radiation
High sensitivity, fast response time
Audible and visual alarm
Data Hold Function
Low battery display
Auto Power Off



Specifications

Range	Magnetic field (3 axes): 0.01μT~200.0μT/0.1~2000mG
	Electric field (1 axis): 1~2000V/m
	High frequency/ Microwave (1 axis): 0.001~100.0mW/m^2
Resolution	Magnetic field (3 axes): 0.01μT/0.1mG
	Electric field (1 axis): 1V/m
	High frequency/Microwave (1 axis): 0.001mW/m^2
Frequency	Magnetic field (3 axes): 30~1000Hz
	Electric field (1 axis): 30~1000Hz
	High frequency/Microwave (1 axis): 50MHz~3.5GHz
Accuracy	±10%
Operating Temperature	0~40°C/ 32°F~104°F
Storage Temperature	-10°C~60°C/ 14°F~140°F

Size(HxWxD): 195mm x 67mm x 38mm **Weight:** 190g
Accessories: 9V battery, gift box with carrying case.

CE
EMC
EN: 61326
EN: 61010-1



Model EMF-60

EMF-80 Electromotive Force Detector

The EMF-80 is a versatile device that can detect both high frequency electromagnetic noise radiation and Extremely Low Frequency(ELF) EMF radiation.It is capable of measuring electromagnetic energy in micro watts per square centimeter. With the EMF-80, you can easily detect EMF radiation emitted by computers, handheld gadgets, electronic devices, and electrical appliances. The EMF-80 is a compact and efficient tool for detecting and monitoring EMF radiation from a wide range of everyday devices

Features

Monitor high frequency electromagnetic noise radiation
Monitor Extremely Low Frequency(ELF)EMF radiation
High sensitivity, fast response time
Audible and visual alarm
Low battery display
Auto Power Off



Specifications

Function	Range	Resolution	Accuracy
EMF	0~3999μW/cm^2	1 μW/cm^2	±20-30%
Low Frequency	50Hz - 60Hz		
High Frequency	3MHz-1000MHz		
Operating Temperature	0~40°C/32°F~104°F		
Storage Temperature	-10°C~60°C/14°F~140°F		

Size(HxWxD): 210mm x 67mm x 38mm **Weight:** 190g
Accessories: 9V battery, gift box with carrying case.

CE
EMC
EN: 61326
EN: 61010-1



Model EMF-80

4 in 1 Multifunction GAS Meter



GD-3805/3806
4 in 1 Multifunction GAS Meter

The instrument is an intelligent gas detector which adopts large-scale integrated circuit technology and advanced standard level of technology. It adopts built-in pumping detection mode to achieve faster response. It is equipped with moisture and dust filter to prevent them from entering the instrument and damaging the sensor. The ammonia detector can be used in high humidity and high dust environment. The case is made of engineering plastics featuring high intensity, perfect handle, waterproof, dustproof and explosion-proof. It can be used in fields that need continuous detection of flammable, explosive, toxic and harmful gases like petroleum, chemical industry, medicine, environmental protection, storage, home, air pollution control and other.

CE
EMC
EN: 61326

Features

	GD-3805	GD-3806
Units can be switched freely ppm, mg/m3	*	
Units can be switched freely ppm, mg/m3, vol%, LEL%.		*
The maximum and minimum values are recorded and displayed.	*	*
Various interface displays. 2.8-inch color screen displays time, concentration, alarm, storage, communication and other information.	*	*
Large-capacity data storage. The data store capacity is greater than 100,000. Support local view, delete and outputted. Storage function can be set to open or close, storage interval time can be arbitrarily set.	*	*
The two display modes can be switched. The large fonts display the average, maximum, and minimum of the gas concentration. Graphical real-time bar chart shows average values.	*	*
The instrument can work continuously for a long time with 3100mA large-capacity lithium battery and low-power circuit design.	*	*
The starting and ending time can be set arbitrarily to prolong the instrument's service time.	*	*
A variety of alarm methods. Alarm value can be adjusted. Alarm mode can be set to sound and light alarm, vibration alarm or sound and light + vibration alarm.	*	*

Specifications

	Range	Resolution	Accuracy	Response time	GD-3805	GD-3806
NH_3	0 to 100ppm	0.1 ppm	±3%Fs	<90s	*	
H2S	0 to 100ppm	0.1 ppm	±2%Fs	<30s		*
CO	0 to 2000ppm	0.5 ppm	±2%Fs	<30s		*
O_2	0 to 30%Vol	0.1 Vol	±2%Fs	<10s		*
EX	0 to 100%LEL	0.1 LEL	±2%Fs	<10s		*
Alarm point	Alarm for low and high value, free setting				*	*
Alarm Method	Red light + vibration + buzzer alarm, different types of combination				*	*
Detection mode	Pumping test				*	*
Battery	3.7V DC rechargeable lithium battery				*	*
Power supply	Micro USB DC 5V 1A				*	*
Working temperature	-20 to 40℃				*	*
Working humidity	15%-95%RH				*	*
Shell	Non metallic housing. Intrinsically safe explosion proof. IP65				*	*

Size(HxWxD): 160mm x 85mm x 73mm
Weight: 360g
Accessories : gift box with carrying case.







Model GD-3805



Model GD-3806

GD-501/505

4 in 1 Multifunction GAS Meter

The instrument is an intelligent gas detector with large-scale integrated circuit technology and advanced standardized technology.The instrument adopts built-in pump detection mode to achieve faster response.Integrated water vapor and dust filter to prevent damage to the sensor due to water vapor and dust entering the instrument.It can be used in high humidity and high dust environment.The shell is made of high-strength engineering plastics with high strength, good hand feel, waterproof, dustproof and explosion-proof.It can be used in places requiring continuous detection of flammable, explosive, toxic and harmful gases, such as petroleum, chemical industry, medicine, environmental protection, storage, household environment, air treatment, etc.



Model GD-501

CE

EMC
EN: 61326
EN: 61010-1

Features

	GD-501	GD-505
The body is compact and easy to carry.	*	*
Record and display the maximum and minimum values.	*	*
Rich menu functions, the 2-inch color screen is equipped with a rich display interface, which can display numerical values and curves.	*	*
Multiple alarm methods, combining voice, vibration, LED lights, and other alarm methods, with adjustable low and high alarm values	*	*
Large capacity data storage function. The data storage capacity is greater than 100000 pieces.	*	*
Supports local viewing, deletion, and USB data export to a computer.	*	*
Auto Power Off	*	*

Specifications

	Range	Resolution	Accuracy	Response time	GD-501	GD-505
H_2S	0 to 100ppm	0.1 ppm	±5%Fs	<30s	*	*
CO	0 to 2000ppm	0.5 ppm	±3%Fs	<30s		*
O_2	0 to 25%Vol	0.1 Vol	±3%Fs	<10s		*
CH_4	0 to 100%LEL	0.1 LEL	±3%Fs	<10s		*
Alarm point	Low alarm and high alarm can be set freely				*	*
Alarm Method	Red light + vibration + buzzer alarm, different types of combinations are optional				*	*
Battery	3.7V DC rechargeable lithium battery				*	*
Storage function	It can store more than 100000 pieces				*	*
Storage way	Timed storage, alarm triggering				*	*
Data export	CSV data files can be exported via USB				*	*
Detection mode	Pump suction, Adjustable time, diffused				*	*



Model GD-505

Size(HxWxD): 195mm x 67mm x 38mm **Weight:** 190g
Accessories: 3.7V battery, gift box with carrying case.



GD-3101

Flammable Gas-Leak Detector

Audible and Visual Annunciation

- Detects: LNG, LPG,CH4, Methane, Butane,Flammable Gas
- Catalytic Combustion Sensor

CE

EMC
EN: 61326
EN: 61010-1



Model GD-3101

Specifications

Name	Portable gas detector		
Function	Detecting the gas leakage and absorbing static electricity		
Power consumption	DC 200mA	Battery size	1.5V x 2(AAA Size)
Detectable gas	LNG, LPG	Temperature	10ºC~50ºC
Humidity	95%RH or lower		
Duration	About 4 hours continuously		



Size(HxWxD): 185mm x 21mm
Weight: 52g
Accessories :
2 x “AAA” Alkaline Batteries and clamshell.

GD-3102 Combustible Gas Leak Detector

Features

6″ inch Gooseneck detector is easy to measure the hard-reached areas.
Highly sensitive and reliable
Easy to Use: One-hand operation with thumb controlled tick adjust knob. Tick accelerates when sensor tip approaches leak.
Use in contaminated Environments: Eliminates background gas concentration with fully adjustable tick rate.
Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks.
Auto Power Off

Specifications

Pump Driven field Calibrateable Range	10ppm
Sensor Type	Solid State
Alarm	Visible & Audible at 10% LEL for Methane. Can be calibrated for other concentrations or gases.
Warm-Up	Approx. 1 minute
Response Time	Less than 2 sec. (up to 40% LEL)
Duty Cycle	Intermittent
Probe Length	16″
Battery	3 “C” Alkaline

CE

EMC
EN: 61326
EN: 61010-1



Model GD-3102

Accessories :
Batteries and Gift box with carrying case.

Size(HxWxD): 221mm x 72mm x 46mm
Weight: 498g

GD-3307/3309

Refrigerant / SF6 Leak Detector



Model 3307

EMC
EN: 61326

Easily operate the Refrigerant Leak Detector with one hand to detect presence of Refrigerants.

3309 is a hand-held SF6 detector (pumped or diffused) series, which is a gas detector for on-site detection of halogen gas leaks and other special applications. The detector has a high response speed and high sensitivity, high resolution, sound and light alarm and other functions, simple operation, is a very high practical gas detector.

Features

	3307	3309
High sensitivity to detect 3000ppm of SF6		*
High sensitivity to detect.100ppm of R- 134a / R- 22	*	
Adjustable tick rate to locate leaks quickly and easily	*	
Visual leak detection by LED indicators	*	*
Precision sensor detects even the smallest leaks	*	*
Compatible with pumping or diffusion of two sampling modes		*

Specifications

Refrigerant Leak Detector	
Sensitivity to detect	100ppm Of R- 134a/ R- 22
Sensor Type	Low power semiconductor
Warm Up Time	Approx.1 minute
ResponseTime	Less than 2 seconds
Alarm	Visible & Audible
SF6 Leak Detector	
range	0 to 3000ppm
sensitivity	<1ppm
accuracy	<2% F.S
Repeatability	≤ ± 1%

Size(HxWxD): 220mm x 62mm x 40mm
Weight: 480g
Accessories :
9V battery and Gift box with carrying case.



Model 3309

GD-3306/3308

Combustible Gas Leak Detector



3306/3308 Combustible Gas Leak Detector detects the presence of combustible gas and measures concentrations between 0~10000 parts per million (PPM). The Detector indicates the presence of combustible gas by a reading on the LCD (3308) or five red LEDs (3306), The five red LEDs indicate different concentration of gas. The beeper function much like clicking of a Geiger counter: Above 3200 PPM, the beeper sounds continuously with the concentration of gas. From 0 PPM to 3200 PPM, the beeper will sound rapidly due to the increasing concentrations of combustible gas. It provides quick, precise gas leak locating, would be the best instrument for explosion preventing and safe production.

Features

	3306	3308
Digital LCD Display		*
Visible, audible and vibration alarm for noisy & bright environments	*	
Highly sensitive and reliable	*	*
Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks	*	*
Auto Zero	*	*
Highly Accuracy, quick response	*	*
16" inch flexible probe with replaceable sensor	*	*
Auto Power Off	*	*

Specifications

		3306	3308
Sensitivity	<50ppm(methane)	*	*
Range	0~10000ppm(methane)	*	*
Response Time	< 2 secs	*	*
Warm-Up Time	Approx. 40 secs	*	*
Audible Alarm	> 75db	*	*
Vibration Alarm	Standard	*	*
Probe Length	16" inch	*	*
Visual Alert	5 Red LEDs: Gas Measuring Levels; Sensitivity Visual Alert	*	
Display Type	LCD		*
Audible Alert(>75 db)	Loud Audible Ticking Rate(w/Continuous Modulation Proportional to Gas Level)	*	*

Size(HxWxD): 220mm x 62mm x 40mm
Weight: 480g
Accessories :
9V battery and Gift box with carrying case.





Model 3308

EMC
EN: 61326



Model 3306

DT-900A
2 in1 HCHO & TVOC Meter



Model 900A

CE
EMC
EN: 61326

The HCHO Tester provides a real time measurement of HCHO and TVOC tech product to meet with a variety of occasions air pollution measurement needs,timely responds air pollution.This instrument has a high accuracy, fast response, sensitivity. It is compact, easy to carry, suitable for home, offices, factories, hotels and schools and other indoor environments. It can be displayed at any formaldhyde in the air and the concentration of TVOC, and calculate the value of API(Air Pullution Index).

Features

Fuel Cell.HCHO sensor,high accuracy and reliability
LCD display with backlight
Real-time display the concentration of HCHO in the air
Real-time display the concentration of TVOC in the air
Real-time display the API
Sound and Light alarm when pollution
Auto power off

Specifications

HCHO	
Range	0.00 to 5.00mg/m^3
Resolution	0.01mg/m^3
Repeatability accuracy	±2%
TVOC	
Range	0.00 to 9.99mg/m^3
Resolution	0.01mg/m^3
Repeatability accuracy	±2%
Operation temperature range	0℃ to 50℃
Storage temperature range	-10℃ to 60℃
Working Voltage	7.4V(Rechargeable battery)

Size(HxWxD): 248mm x 160mm x 100mm
Weight: 584g
Accessories: Li battery, power adaptor, gift box with carrying case.

CO-110 Carbon Monoxide Meter







- *Memory for 10 complete data sets*
- *LED light & audible alarm*

- *High Quality Sensor*



CE
EMC
EN: 61326

CO-110 Carbon Monoxide Meter detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM). The Meter indicates the presence of CO by a reading on the LCD and a beeper tone. The beeper function much like clicking of a Geiger counter:Above 200 PPM, the beeper sounds continuously with the concentration of CO. From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.

Features

Digital LCD Display
Auto/manual zero
Memory for 10 complete data sets
Record mode
Red & Blue LED light and audible alarm
High Accuracy, quick response
Pocket size and easy to use
Fast sampling, Max Hold, Data Hold
Above 200 PPM, the beeper sounds continuously

Specifications

Operating temperature	0ºC to 50.0ºC
Storage temperature	-30ºC to 60.0ºC
Operating humidity	0-90% relative humidity (non-condensing)
Measurement Range	0 to 1000PPM
Measurement Resolution	1PPM
Accuracy	±5% or ±10PPM
Warm up period	Less than 2 seconds
Battery	9V, NEDA 1604A or equivalent
Sensor type	Stabilized electrochemical Gas-specific (CO)
Typical sensor life	3 years

Size(HxWxD): 102mm x 52mm x 29mm **Weight:** 84g
Accessories : 3.6V battery and Gift box with carrying case.

GD-3300
Combustible Gas Leak Detector

16″ inch Gooseneck detector

High quality Sensor





Features

16″ inch Gooseneck detector is easy to measure the hard-reached areas.
Highly sensitive and reliable
Easy to Use: One-hand operation with thumb controlled tick adjust knob. Tick accelerates when sensor tip approaches leak.
Use in contaminated Environments: Eliminates background gas concentration with fully adjustable tick rate.
Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks.

Specifications

Pump Driven field Calibrateable Range	10ppm
Sensor Type	Solid State
Alarm	Visible & Audible at 10% LEL for Methane. Can be calibrated for other concentrations or gases.
Warm-Up	Approx. 1 minute
Response Time	Less than 2 sec. (up to 40% LEL)
Duty Cycle	Intermittent
Probe Length	16″
Battery	3 “C” Alkaline



CE
EMC
EN: 61326

Model 3300

Accessories :
Batteries and Gift box with carrying case.

Size(HxWxD): 221mm x 72mm x 46mm
Weight: 498g







Model 3303

GD-3303 Refrigerant Leak Detector

Features

16″ inch Gooseneck detector is easy to measure the hard-reached areas.
Highly sensitive and reliable
Easy to Use: One-hand operation with thumb controlled tick adjust knob. Tick accelerates when sensor tip approaches leak.
Use in contaminated Environments: Eliminates background gas concentration with fully adjustable tick rate.
Pinpoint small Leaks: Detects all Refrigerant leaks even tiny leaks.

Specifications

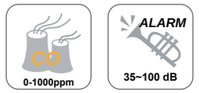
Pump Driven field Calibrateable Range	10ppm
Sensor Type	Solid State
Alarm	Visible & Audible at 10% LEL for Refrigerant leaks. Can be calibrated for other concentrations or gases.
Warm-Up	Approx. 1 minute
Response Time	Less than 2 sec. (up to 40% LEL)
Duty Cycle	Intermittent
Probe Length	16″
Battery	3 “C” Alkaline

Size(HxWxD): 221mm x 72mm x 46mm
Weight: 498g

CO-180/CO-181
Carbon Monoxide Meters

High quality Sensor

- *Memory for 10 complete data sets*
- *LED light audible alarm*



CO-180/181 Carbon Monoxide Meter detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM). The Meter indicates the presence of CO by a reading on the LCD and a beeper tone. The beeper function much like clicking of a Geiger counter:Above 200 PPM, the beeper sounds continuously with the concentration of CO. From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.

Features

	CO-180	CO-181
Digital LCD Display	*	*
Auto zero	*	
Auto/manual zero	*	*
Memory for 10 complete data sets		*
Record mode		*
LED light audible alarm		*
High Accuracy, quick response	*	*
Pocket size and easy to use	*	*
Fast sampling	*	*
Max Hold	*	*
Data Hold	*	
Auto Power Off	*	*
Above 200 PPM, the beeper sounds continuously	*	*



Model 180



Model 181

Specifications

Operating temperature	0ºC to 50.0ºC
Storage temperature	-30ºC to 60.0ºC
Operating humidity	0-90% relative humidity (non-condensing)
Measurement Range	0 to 1000PPM
Measurement Resolution	1PPM
Accuracy	±5% or ±10PPM
Warm up period	Less than 2 seconds
Battery	9V, NEDA 1604A or equivalent
Auto Power Off	after 15 minutes of inactivity
Sensor type	Stabilized electrochemical Gas-specific (CO)
Typical sensor life	3 years

Size(HxWxD): 166mm x 63mm x 42mm
Weight: 230g

Accessories :
9V battery and Gift box with carrying case.

GD-3000 Flammable Gas-Leak Detector

- Audible and Visual Annunciation
- Detects: LNG, LPG,CH4, Methane, Butane,Flammable Gas
- Catalytic Combustion Sensor

Specifications

Name	Portable gas detector		
Function	Detecting the gas leakage and absorbing static electricity		
Power consumption	DC 200mA	Battery size	1.5V x 2(AAA Size)
Detectable gas	LNG, LPG	Temperature	10ºC~50ºC
Humidity	95%RH or lower	Duration	About 4 hours continuously

Size(HxWxD): 164mm x 21mm
Weight: 25g

Accessories :
2 x “AAA” Alkaline Batteries and clamshell.



Model 3000

GD-3100
Combustible Gas Leak Detector





GD-3100 Combustible Gas Leak Detector detects the presence of combustible gas and measures concentrations between 0~10000 parts per million(PPM) with auto zero. The Detector indicates the presence of combustible gas by a reading on the LCD , a red LED & a beeper tone. The beeper will sound rapidly due to the increasing concentrations of combustible gas. It provides quick, precise gas leak locating, would be the best instrument for explosion preventing and safe production.

16” inch Gooseneck detector

High quality Sensor



CE
EMC
EN: 61326

Features

Digital LCD Display
Visible, audible and vibration alarm for noisy & bright environments
Auto Zero
Highly sensitive and reliable
Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks
16” inch flexible probe with replaceable sensor
Auto Power Off

Specifications

Sensitivity	<50ppm(methane)
Range	0~10000ppm(methane)
Response Time	< 2 secs
Warm-Up Time	Approx. 50 secs
Audible Alarm	> 75db
Vibration Alarm	Standard
Probe Length	16” inch
Sensor Type	Solid State
Duty Cycle	Intermittent
Battery	3.7V 1400mA Lithium battery

Accessories :
Batteries and Gift box with carrying case.

GD-3301 Carbon Monoxide Meter



Model 3301

CE
EMC
EN: 61326

Features

Easy to Use: It fits comfortably in your hand and operates with the simple push of a button.
Fast Response: Pump driven design ensures immediate response.
Easy to Read: See the results even in poorly lit areas with the back light, two line LCD display.
Quick Set Up: Push zero button is much easier than manual adjust instruments.
Calibrate in the Field: No need to send your instrument to the factory for service. Eliminates time.

Specifications

Pump Driven field Calibrateable Range	0-1000ppm
Resolution	1ppm
Response Time	3 seconds, 90% of reading in 30 seconds
Accuracy	±5ppm, ±3% of reading
Operating Temperature	0-104ºF, 5-95% Relative Humidity, non condensing
Zero Adjustment	Push Button
Battery	3 “C” Alkaline
Battery Life	20 hours continuous operation

Size(HxWxD): 221mm x 72mm x 46mm
Weight: 365g

Laser methane telemeter



CH-9980/9980B
Laser methane telemeter

Using Tunable Diode Laser Absorption Spectorscopy (TDLAS) technology, it has high sensitivity and rapid response. It only reacts to the target gas without cross interference of other gases. It has a long measurement distance and can quickly detect leakage.

Features

	CH-9980	CH-9980B
High sensitivity, small leakage can also be detected	*	*
It only reacts to the target gas and is not interfered by other gases	*	*
Color LCD screen, figure culture display data, clear and intuitive	*	*
It can easily penetrate ordinary glass for detection	*	*
Self diagnosis function, which can automatically detect fault alarm	*	*
Indicating laser assisted aiming and positioning, which can be clearly seen from a long distance, so as to improve the detection efficiency	*	*
Rechargeable battery, low power detection function	*	*
Automatic shutdown function	*	*
Bluetooth interface		*

Specifications

Function	Range	Resolution	Accuracy
Measurement	0 ~ 99999 ppm*m	Detection distance ≤ 10m 5ppm * m Detection distance ≤ 25m 10ppm * m	±5%F.S
Measuring Principle	Tunable Diode Laser Absorption Spectorscopy		
Measuring Method	Echo Reflection Telemetry		
Detection Distance	100m (75% reflectivity)		
Alarm mode	Sound and light alarm, display alarm		
Laser safety level	Infrared laser: Class I, human eye safety Indicating laser: Class 3R, it is forbidden to stare directly at the beam or watch directly with optical instruments		
Battery	7.4V, 5200mAh		

Size(HxWxD): 236mm x 166mm x 70mm
Weight: 860g
Accessories: 7.4V batteries and clamshell.





CE
EMC
EN: 61326

Model CH-9980



Bluetooth

Model CH-9980B

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

Air Quality CO2 Monitor



CE
EMC
EN: 61326

The Carbon Dioxide (CO_2) Monitor is designed for air quality control and health control by measuring Carbon Dioxide (CO_2) level in areas where it needs to be monitored, such as factories, schools, offices, transportation lines and so on.The measured CO_2 value in ppm (parts-per-million) will be displayed on the LCD.

Features

	326	326B	326C	326D	326DS	326E
NDIR (non-dispersive infrared) CO_2 sensor	*	*	*	*	*	*
Indoor Air Quality displayed in ppm with Good (0 to 800ppm), Normal (800 to1500ppm), Poor (>1500ppm) indication	*	*	*	*	*	
Indoor Air Quality displayed in ppm with Excellent (400 to 600ppm), Good (601 to 1000ppm), Medium (1000 to 2000ppm), Poor (2000 to 5000ppm) indication, and more than 2500ppm Poor flashing						*
Easy to read, large dual display	*	*	*	*	*	*
Simultaneously displays (CO_2) concentrations, Air Temperature and Humidity	*	*	*	*	*	*
Adjustable carbon dioxide alarm function in the range of 0-5000 ppm.	*	*	*	*	*	*
Air quality indicator function.	*	*	*	*	*	*
Built-in body sensor, sound sensor, light sensor wake-up					*	
Color EBTN LCD Display				*	*	*
The 24-hour histogram of average CO_2 concentration						*
Alarm with 5-minute snooze function/ 12/24 hour time display						*
Trend display of Carbon Dioxide concentration						*
Low battery indication	*	*	*	*	*	*
2x1.5V "AA" battery	*		*			
1000mAH rechargeable lithium battery		*		*	*	*
Power supply and charging		Option		*	*	*

Specifications

	Range	Resolution	Accuracy
CO_2	0 to 5000ppm	1 ppm	±50 ppm ±5% of reading
Temperature	-10 to 50°C	0.1°C/°F	±1°C
Humidity	0 to 100 %RH	0.1 %RH	±3.5 %RH (20%RH-80%RH) ±5%RH (0%RH-20%RH/ 80%RH-100%RH)
USB	Micro USB DC 5V 1A		
Working temperature	-10 to 50°C		
Storage temperature	-10 to 60°C		

CE
EMC
EN: 61326



Model 326





Size(HxWxD): 66mm x 66mm x 20mm
Weight: 130g

Accessories : 2 x 1.5V "AA" batteries (326/326C), Li-ion battery (326B) and gift box with carrying case.

DT-802B/802EH Air Quality CO_2 Monitor

The Carbon Dioxide (CO_2) Monitor is designed for air quality control and health control by measuring Carbon Dioxide (CO_2) level in areas where it needs to be monitored, such as factories, schools, offices, transportation lines and so on.The measured CO_2 value in ppm (parts-per-million) will be displayed on the LCD with three acoustic alarm sounds when then C02 level is exceeding the define level.

Features

	802B	802EH
NDIR (Non-dispersive Infrared) CO_2 sensor.	*	*
Temperature and humidity measurement function	*	*
Adjustable alarm function	*	*
Historical data storage function		*
Wifi		*
Power supply (220V / 24V)		*

Specifications

Function	Range	Resolution	Accuracy
CO_2	0-5000ppm	1ppm	±50 ppm ±5% of reading
Temperature	0 to 50°C/32 to 122°F	0.1°C/°F	±1°C/1.8°F
Humidity	0 to 90.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)
WIFI	Connection Properties 802.11b,802.11g,802.11n(signed stream)on channel 1-14@2.4GHz Maximum Bit Rate 11Mbps@11b,54Mbps@11g,72Mbps@11n HT20		
Encrypt	WPA2		
Battery	1400mAh rechargeable 18500 battery		
Charging	Micro USB DC 5V 1A		

Size(HxWxD): 110mm x 105mm x 61mm **Weight:** 230g
Accessories : gift box.

WiFi
CE
EMC
EN: 61326



Model 802B



DT-182D/182D+/182E/182E+/182EH

Air Quality CO_2 Monitor



Model 182E

WiFi

CE

EMC
EN: 61326

CO_2 detector is a sort of exquisite concise and efficient detector launched by CEM recently, which is integrated with CO_2, temperature and humidity detection function. This device uses high-precision CO_2 Sensor which can detect the CO_2 accurately and sensitively. The device is equipped with an accurate sensor that can detect the temperature and humidity at current environment. The operation is very simple. There's a high capacity re-chargeable lithium battery inside, which is very convenient to carry, so that we can check air quality from time to time.

Features

	182D	182D+	182E	182E+	182EH
NDIR (non-dispersive infrared) CO_2 sensor	*	*	*	*	*
Checks for Carbon Dioxide (CO_2) concentrations	*	*	*	*	*
Indoor Air Quality displayed in ppm with Good (0 to 800ppm), Normal (800 to1500ppm), Poor (>1500ppm) indication	*	*	*	*	*
Easy to read, large dual display	*	*	*	*	*
Simultaneously displays (CO_2) concentrations, Air Temperature and Humidity	*	*	*	*	*
Low battery indication	*	*	*	*	*
WIFI function			*		*
The sampling rate was set by the APP			*		*
Store 5,000 sets of data			*		*
1000mAh Rechargeable lithium battery	*	3000mAh	*	3000mAh	
Bring 220V adapter bracket directly to USB charging					*

Specifications

Function	Range	Resolution	Accuracy
CO_2	0-5000ppm	1ppm	±50 ppm ±5% of reading
Temperature	-5 to 50°C/23 to 122°F	0.1°C/°F	±1°C/1.8°F
Humidity	0 to 100%RH	0.1%RH	±3.5%RH(20 to 80%RH) ±5%RH(0 to 20%RH, 80 to 100%RH)
Charging	USB 5V charging		
Main Power	180-240V,50-60Hz (182EH)		
Working temperature	-10°C ~ 50°C		
Storage temperature	-10°C ~ 60°C		

Size(HxWxD): 114mm x 60mm x 36mm (182D/182E), 145 x 65 x 41mm (182EH)
Weight: 160g
Accessories: 3.7V lithium battery, gift box.



Model 182EH

WiFi



DT-152D

Air Quality CO_2 Monitor

CO_2 detector is a sort of exquisite concise and efficient detector launched by CEM recently. This device uses high-precision CO_2 Sensor which can detect the CO_2 accurately and sensitively. The device is equipped with an accurate sensor that can detect the temperature and humidity at current environment. The operation is very simple. There's a high capacity rechargeable lithium battery inside, which is very convenient to carry, so that we can check air quality from time to time.

CE

EMC
EN: 61326

Features:

- NDIR (non-dispersive infrared) CO_2 sensor
- Checks for Carbon Dioxide (CO_2) concentrations
- Indoor Air Quality displayed in ppm with Good (0 to 800ppm), Normal (800 to1500ppm), Poor (>1500ppm) indication
- Easy to read, large dual display
- Simultaneously displays (CO_2) concentrations, Air Temperature and Humidity
- 1500mAh rechargeable lithium battery
- Low battery indication



Specifications

Function	Range	Resolution	Accuaacy
CO_2 detection	0~5000ppm	1ppm	±50 ppm ±5% of reading
Temperature	-10 to 50°C	0.1°C	±1°C
Humidity	0~100%RH	0.1%RH	±3.5%RH(20~80%RH) ±5%RH (0~20%RH/80~100%RH)
Working temperature	-10°C ~ 50°C		
Storage temperature	-10°C ~ 60°C		

Size(HxWxD): 114mm x 60mm x 36mm
Weight: 160g
Accessories: 3.7V lithium battery, gift box.



Model 152D

DT-901A Desktop Indoor Air Quality CO_2 Monitor

DT-901A is a small, spherical CO_2 measuring instrument with NDIR (Non-dispersive Infrared) CO_2 sensor inside. The CO_2 value measured in ppm (parts per million) will be displayed on the LCD. The meter is equipped with a large-capacity rechargeable lithium battery, and the indicator light above the meter can indicate the current CO_2 concentration range. It is easy to operate, convenient and fast to use, and can be used for environmental monitoring in factories, schools, offices, traffic lines and other places.

Features:

- NDIR (Non-dispersive Infrared) CO2 sensor.
- Built-in large-capacity rechargeable lithium battery.
- Tri-color display bar.
- Clear and easy-to read LCD screen.
- Temperature readings are in °F and °C, both can be optionally replaced.
- Air quality indicator function. Under different concentrations of carbon dioxide, the liquid crystal will display different colors.

CE

EMC
EN: 61326

Specifications

Function	Range	Resolution	Accuracy
CO_2	0-5000ppm	1ppm	±5%±50ppm
Temperature	-10 to 50°C/14 to 122°F	0.1°C/°F	±1°C/1.8°F
Humidity	0 to 100.0%RH	0.1%RH	±3.5%RH(20 to 80%RH) ±5%RH(0 to 20%RH, 80 to 100%RH)

Size(HxWxD): 110mm x 100mm x 48mm
Weight: 210g
Accessories:
NiMH battery, gift box.





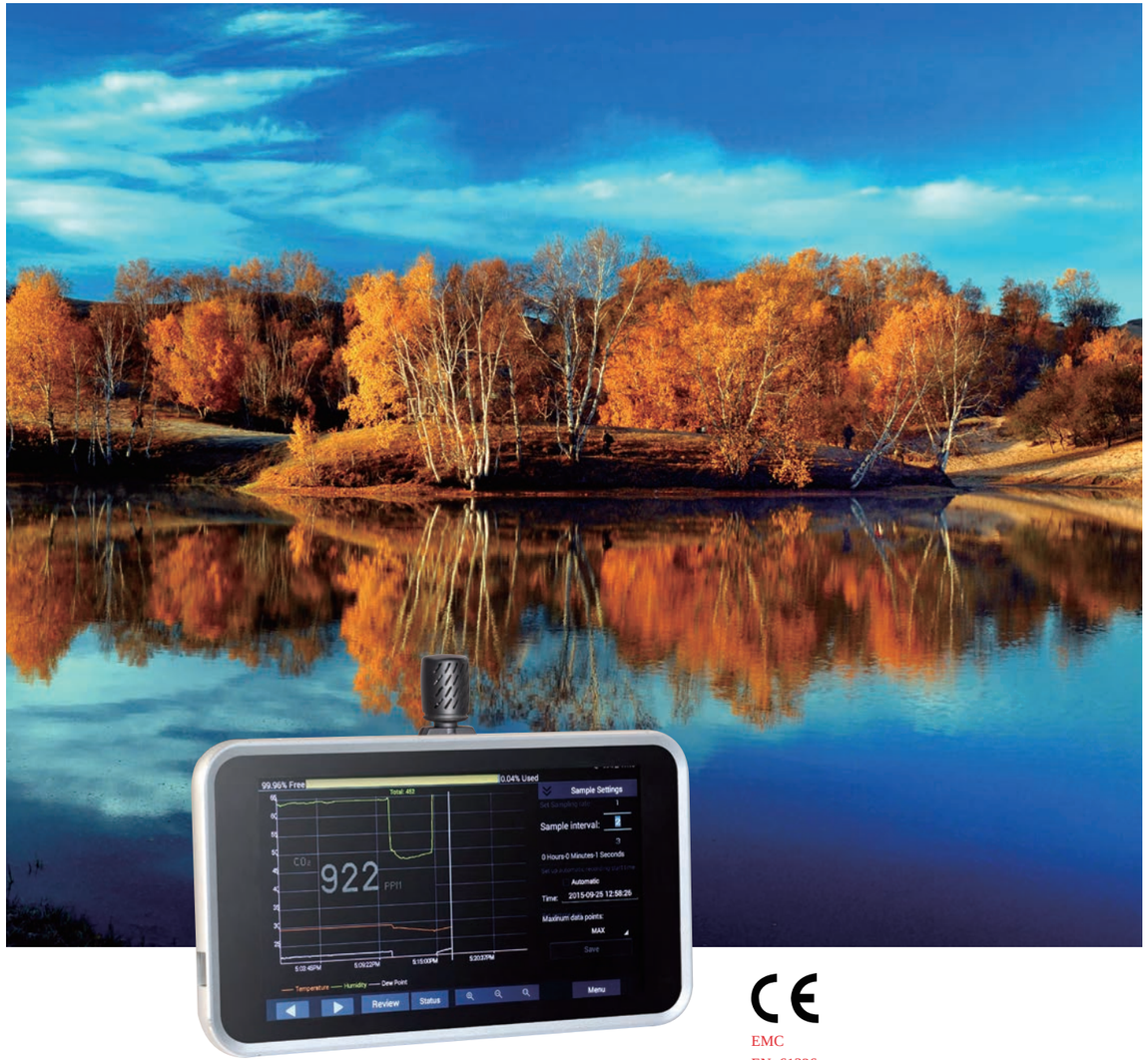


Model 901A

DT-1703

Desktop Indoor Air Quality CO_2 Monitor

Measuring Carbon Dioxide (CO_2), Air Temperature and Humidity with user adjustable visual and audible alarm, Dew Point and Wet Bulb temperature measurement



CE

EMC
EN: 61326

Features

- 7” Color TFT LCD Display
- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function

Specifications

Function	Range	Resolution	Accuracy
CO_2	0-9999ppm	1ppm	±5%±50ppm
Temperature	-10 to 60°C/14 to 140°F	0.1°C/°F	±1°C/1.8°F
Humidity	0.1 to 100.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

Size(HxWxD): 205mm x 110mm x 35mm
Weight: 350g
Accessories : NiMH battery, gift box with carrying case.

DT-967

Desktop Indoor Air Quality CO_2 Monitor

Features

- Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user adjustable high/low alarms and choice of datalogging model
- 2.4” TFT Color Display
- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date and Time
- Max/Min CO_2 value recall function

Specifications

Function	Range	Resolution	Accuracy
CO_2	0-9999ppm	1ppm	±5%±50ppm
Temperature	-10 to 60°C/14 to 140°F	0.1°C/°F	±1°C/1.8°F
Humidity	0.1 to 100.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

Size(HxWxD): 103mm x 60mm x 51mm
Weight: 210g

Accessories :
NiMH battery, gift box.



CE
EMC
EN: 61326

Model 967

DT-968C CO/NO_2/NH_3 Odor Detector

968C can accurately detect the pollution from automobile exhausts and for agricultural/industrial odors/waste gas. The meter can detect the concentration of CO, NO2 and NH3 in the odor. The device has a data recording function, which can be automatically set according to the sampling time and interval set by the user. Record measurement data and generate a readable file. Users can view data directly from the device and export the data to a computer via USB. Built-in high-capacity lithium battery ensures long-time measurement, sleep mode and auto power off function.

Features

- Powerful MEMS Sensor, high accuracy and reliability
- 2.4" TFT color display
- Real-time display the concentration of odors
- Measuring three types of pollution concentrations
- Audio and Light alarm when pollution
- Auto power off
- Smart upload to the Cloud, access to large data
- Open and close control Purifier
- Wireless interface

Specifications

Function	Range	Resolution	Repeatability accuracy
CO	0 ~1000ppm	1ppm	±2%
NO2	0.05 ~ 10ppm	0.01ppm	±2%
NH3	1 ~ 500ppm	1ppm	±2%

Size(HxWxD): 103mm x 60mm x 51mm **Weight:** 360g
Accessories : NiMH battery, gift box.



CE
EMC
EN: 61326

Model 968C

DT-802/802D/802W Desktop Indoor Air Quality CO_2 Monitors



CE
EMC
EN: 61326

Model 802

Features

- Checks for Carbon Dioxide (CO_2) concentrations with Max/Min value recall function
- NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good (380 to 420ppm), Normal (<1000ppm), Poor (>1000ppm) indication
- Visible and Audible CO_2 warning alarm
- Displays Year, Month, Date, and Time
- Automatic Baseline Calibration (minimum CO_2 level over 7.5 days) or manual calibration in fresh air
- 802D Desktop Indoor Air Quality CO_2 Monitor with datalogger memory 32000 points.
- 802W Desktop Indoor Air Quality CO_2 includes wireless

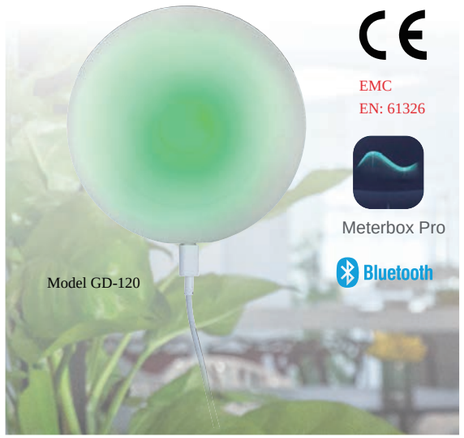
Specifications

Function	Range	Resolution	Accuracy
CO_2	0-9999ppm	1ppm	±50ppm(0-2000ppm)/±8%(2000-9999ppm)
Temperature	-5 to 50°C/23 to 122°F	0.1°C/°F	±1°C/1.8°F
Humidity	0.1 to 90.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

Size(HxWxD): 110mm x 105mm x 61mm
Weight: 230g

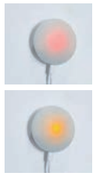
Accessories :
NiMH battery, gift box with carrying case.

GD-120
Air Quality CO_2 Monitor



This product is a carbon dioxide measuring instrument with Bluetooth function,Built in Photoacoustic sensor technology carbon dioxide sensor. Users can check the CO_2 concentration displayed by the meter on the mobile phone through APP, and even if they don't use the mobile phone, the meter will change the color of light according to the CO_2 concentration. It is easy to operate, convenient and quick to use, and can be used for environmental monitoring in factories, schools, offices, traffic lines and other places.





Features:
- CO_2 sensor using Photoacoustic sensor technology .
- Tricolor breathing light tips.
- Universal TYPE-C interface.
- Bluetooth connection of mobile phone.

Specifications

Function	Range	Resolution	Accuracy
CO_2	0-5000ppm	1ppm	±5%±50ppm of reading
Working temperature	-10 - 50℃		
Storage temperature	-10 - 60℃		
Power supply	5V/1A TYPE-C		

Size(HxWxD): 85mm x 85mm x 30mm **Weight:** 35g
Accessories: USB-cable, gift box.

DT-328C Air Quality CO_2 Monitor



Model 328C





The Carbon Dioxide ($C0_2$) Monitor is designed for air quality control and health control by measuring Carbon Dioxide ($C0_2$) level in areas where it needs to be monitored, such as factories, schools, offices, transportation lines and so on. 328C can be connected to the network, and carbon dioxide and temperature and humidity values can be monitored remotely.

EMC
EN: 61326

Features:
- NDIR (Non-dispersive Infrared) CO_2 sensor.
- Temperature readings are in °C and °F, both can be optionally replaced.
- 220V/24V voltage supply is supported.
- With WIFI inside, data can be viewed remotel.
- Historical data storage function.

Specifications

Function	Range	Resolution	Accuaacy
CO_2 detection	0~5000ppm	1ppm	±50 ppm ±5% of reading
Temperature	0 to 50°C	0.1°C	±1°C
Humidity	0~100%RH	0.1%RH	±3.5%RH(20~80%RH), ±5%RH
Power supply	220V / 24V		
WIFI	Connection Properties 802.11b,802.11g,802.11n(signed stream)on channel 1-14@2.4GHz Maximum Bit Rate 11Mbps@11b,54Mbps@11g,72Mbps@11n HT20 Encrypt WPA2		
Working temperature	-10℃ ~ 50℃		
Storage temperature	-10℃ ~ 60℃		

Size(HxWxD): 86mm x 86mm x 86mm **Weight:** 206g
Accessories: Gift box.

GD-381/382 Ammonia/Ozone Transmitter



Model GD-381

EMC
EN: 61326

GD-381 a new ammonia transmitter which is with high-precision electrochemical sensor for ammonia concentration detection.

GD-382 a new ozone transmitter which is with high-precision electrochemical sensor for ozone concentration detection.

Specifications

	Range	Resolution	Accuracy	GD-381	GD-382
Ammonia	0 to 100ppm	0.1 ppm	±6%F.S.	*	
Ozone	0 to 100ppm	0.1 ppm	±6%F.S.		*
Interface	RS485				
Power	10~30V DC				
Working temperature	-20 to 50℃				
Storage temperature	-10 to 60℃				

Size(HxWxD): 66mm x 66mm x 20mm **Weight:** 115g
Accessories : gift box.

GD-100/110
Combustible Gas Detector

This product is a combustible gas detector with measurement range of 0-100% LEL. It adopts semiconductor sensor and has the characteristics of high stability and small sensitivity drift. It is mainly used in places where combustible gases (such as liquid fossil oil and gas, natural gas, biogas, etc.) may leak to detect whether combustible gases are leaking to ensure personal safety.

Features

	GD-100	GD-110
High reliability semiconductor sensor is adopted	*	*
Power supply DC 5V	*	*
Gas alarm indication, audible and visual alarm	*	*
Sensor fault indicator	*	*
Sensor life indicator	*	*
Display with backlight		*
CO and CH_4 alarm	CH_4	CO

EMC
EN: 61326



Model GD-100

Specifications

Detection Gas	Combustible Gas
Measurement Range	0 ~ 100%LEL
Response time	< 30S
Alarm setpoint	6%LEL
Repetition error	±3%LEL
Alarm mode	Audible and visual alarm
Work environment	Temperature: 0 ~ 50 ℃ Humidity: < 90% RH
supply voltage	DC 5V Adapter

Size(HxWxD): 150mm x 15mm x 36mm **Weight:** 504g
Accessories: 7.4V Li battery, power adaptor, gift box with carrying case.



Model GD-110

GD-201/202/203 2 in 1 CO & Smoke Detector

GD-202/203 has built-in high sensitivity CO electrochemical sensor, which can sensitive and accurately detect the CO concentration in the environment, and is suitable for family soot poisoning prevention, fire warning, gas, petroleum, chemical, fire, mine and other application scenarios, effectively avoid casualties and property losses, and always protect your health. It adopts a unique ring design, the appearance is beautiful, with sound and light alarm function, but also has a high decibel alarm buzzer.

GD201 built-in high sensitivity smoke maze, can be sensitive and accurately detect the smoke in the environment, is suitable for home fire prevention warning, gas, petroleum, chemical, fire, mine and other application scenarios, effectively avoid casualties and property losses, always escort your health. It uses a unique ring design, the appearance of the beautiful atmosphere, with the sound and light alarm function, the red light flashing represents the smoke alarm, but also has a high decibel alarm buzzer, 3.7V 2600mAh large capacity battery power supply, easy to install, external dry contact or 485 interface (optional) .

Features

	GD-201	GD-202	GD-203
CO concentration detection		*	*
Smoke detection	*		*
Beming alarm greater than 85 dB	*	*	*
RGB breathing lamp, beep alarm frequency indicates the alarm level		*	*
Storage time and CO data are available		*	
Stores 5,000 pieces of historical data		*	
ModBus RS-485 Communications		*	*
External dry contact	*		
UART data interface		*	*
Built-in large capacity 3.7V lithium battery	*	*	*
AC power supply		*	
Easy to install	*	*	*

EMC
EN: 61326



Model GD-202



Specifications

		GD-202	GD-203
Range	0~1000 ppm	*	*
Resolution	1ppm	*	*
Accuracy	±5%FS	*	*
AC power supply	180~240V/50HZ	*	
Data interface	RS-485, UART		
Working temperature	0~50℃		
Storage temperature	-10~60℃		

Size(HxWxD): 150mm x 15mm x 36mm **Weight:** 504g
Accessories: Power adaptor, gift box with carrying case.

DT-166
Probe thermometer



EMC
EN: 61326
EN: 60825-1

IP65 waterproof



Model 166

This probe thermometer can measure solid, gas and soft media. It is measured with PT1000 probe. It has the characteristics of high measurement accuracy and can be used as a reference measurement instrument for calibration of other measurement systems

Features

Large measuring range -199.9 to 199.9 °C
Control components: on / off switch
IP65 dustproof and waterproof
Maximum, minimum calibration, backlight mode
HACCP industry standard

Specifications

Measuring range	-199.9 to 199.9°C
Accuracy	± 1 °C
Resolution	0.1 °C
Battery life	about 200 working hours
Operating temperature	5 to 60 °C
Storage/transport temperature	-20 to 70 °C
Protection class	IP65

Size(HxWxD): 121mm x 73mm x 30mm
Weight: 215g
Accessories: 9V battery and clamshell

DT-323H/327
Bluetooth Thermometer and Hygrometer

This is a Bluetooth temperature and humidity instrument, which can be connected to the app via Bluetooth to view the data easily by using the mobile phone. It adopts high precision and high quality digital sensor, with low power indicator function, °C\°F unit switching, and ultra-low power consumption.
Equipped with a clock temperature and humidity meter (Only Model: 327)



Features

- Liquid crystal display with clear and easy reading.
- The temperature reading units are °C and °F, and the units are switchable.
- When the battery voltage is lower than 2.6V, a low-power battery icon will be displayed.
- Comfortable working current of the whole machine.
- comfort indicator function, different temperature or humidity environment, the screen will show sadness or happyness , to help you easily understand the comfort.
- The measuring instrument is simple and easy to operate.
- The APP can be connected via Bluetooth and the user can get the data from the mobile phone.



Model 323H

Specifications

Function	Range	Resolution	Accuracy
Temperature measurement	0°C~50°C (32°F~120°F)	0.1°C	±1°C
Humidity measurement	0% RH ~99%RH	0.1%RH	±5% (10% RH ~90%RH)
Wireless connection	Bluetooth 4.2BLE		
Bluetooth communication distance	30m in open environment		

EMC
EN: 61326



Model 327

Size(HxWxD): 66mm x 66mm x 15mm
Weight: 70g
Accessories : 2 x 1.5V “AAA” batteries and gift box.

DT-326A Professional Digital Thermometer

This is a temperature and humidity instrument, it adopts high precision and high quality sensor, with low power indicator function, °C\°F unit switching, high temperature and low temperature alarm function.

Features

- Professional Digital Thermometer with 3m cable sensor probe,
- Functions include low battery display.
- High temperature and low temperature alarm.
- MAX/MIN temperature display, °C/°F unit switch.

Specifications

Temperature range	-40~70°C (-40~158°F)
Temperature accuracy	±0.5 °C @-20~25 °C otherwise ±1 °C
	±0.9 °F @-4~77°F otherwise ±1.8°F
Temperature resolution	0.1
Cable sensor	approx. 3m
Measure rate	6 Seconds
Protection class	IP 65
Battery life	1 year
Battery	1 x CR2032 3V Lithium Button cell battery

Size(HxWxD): 66mm x 66mm x 15mm
Weight: 60g
Accessories: CR2032 3V Lithium Button cell battery and gift box.

EMC
EN: 61326



Model 326A



DT-8923/8923A/8923B

Professional Pressure Gauge



Model 8923

CE

EMC
EN: 61326



The 8923 series pressure gauge suitable for measuring air or liquid pressure.Professional industrial appearance structure design. The device measures Gauge Pressure from 0psi to 500psi, other features include clear zero, display maximum or minimum value, automatic shutdown. Careful use of this meter will provide years of reliable service.

Features

- 316L stainless steel sensor can measure gas or liquid pressure
- Backlight design, clear LCD numerical display
- 23 Units can be selected, Reset function, Max/Min value
- Battery voltage indicator, Auto Power off function, External power interface DC 9V
- RS232 communication (customization)
- 23 selectable units: mmHg@0°C, kPa, mPa, psi, mbar, bar, torr, inHg@0°C, ftsw(ft sea water), ftH2O@60°F, ftH2O@20°C, ftH2O@4°C, msw(m sea water), mmH2O@20°C, mmH2O@4°C, cmH2O@20°C, cmH2O@4°C, mH2O@20°C, mH2O@4°C, inH2O@60°F, inH2O@20°C, inH2O@4°C, kg/cm2.

Specifications

	8923	8923A	8923B
Accuracy	±0.2%FSO	±0.2%FSO	±0.2%FSO
Pressure Range	36psi	150psi	500psi
Maximum Pressure	72psi	300psi	1000psi
Measuring time	0.5 Seconds typical		
Operating Conditions	0℃ to 50℃		
Storage Conditions	-10℃ to 60℃		
Power Supply	9V Battery		

Size(HxWxD): 140mm x 95mm x 46mm
Accessories : gift box with carrying case.

DT-60 Water leak alarm



Model 60

CE

EMC
EN: 61326



If water enters the unit, the alarm function can be applied. Test the function after triggering the alarm, battery is regularly replaced once a year.
Wet your fingers and put them on two wires. The alarm signal shall be triggered and the alert is now ready to use.

Features:

- Unlimited use spot detector, easily reset for reuse
- Easy to use near water heaters, sump pumps, under sinks and behind dishwashers
- Water sensor and alarm all in one
- Economical way to defend against water leaks in multiple locations throughout the home
- Alarm volume: 80db
- Alarm sounds for up to 24 hours (dependent upon battery life)
- Low battery chirp, Requires 9V battery
- DIY installation
- Ideal for use in areas not usually observed,
  Water heaters
  Behind washing machines or dishwashers
  Under sinks, Toilets
  Sump pumps or inside pits
  Behind or near media systems

GD-3802

O_2 Tester

This instrument is a oxygen meter, which can measure the oxygen concentration with a measuring range of 0~100% O_2. This product uses an electrochemical oxygen sensor. The high-quality sensor has the characteristics of long life and quick response. Inside the instrument, there are maximum and minimum measurement modes, low power reminder, automatic shutdown and other functions. It is easy to operate, convenient and fast to use, and can be used for environmental monitoring in residential areas, families, workplaces, hospitals and other places.

Features

- Oxygen sensor can be replaced
- The instrument can be recalibrated and the measurement is accurate
- Fast reaction
- Low electricity reminding function
- MAX/MIN/HOLD Measurement mode
- Automatic shutdown function can be turned off



Specifications

	Range	Resolution	Accuracy
O_2	0~100% O_2	0.1%	1%
Response Time	<15s		
Operating Temperature	0 to 50℃		
Operating Humidity	0 - 99%RH non-condensing		
Storage temperature	-10 to 60℃		

Size(HxWxD): 121mm x 73mm x 30mm **Weight:** 215g
Accessories: 9V battery and clamshell

CE

EMC
EN: 61326



Model GD-3802

GD-601 Oxygen Concentration Monitor

Features

- Monitoring the oxygen concentration in the air has high sensitivity and short response time
- Real-time online measurement
- Acousto-optic alarm, high concentration and low concentration alarm threshold can be adjusted
- With time display function
- Support RS485 signal output, Calibration function
- Alarm value data record

Specifications

Measuring range	0 ~ 30% Vol
Resolution ratio	0.1% Vol
Accuracy	±1%(F.S)
Maximum Overload	30% Vol
Response time	< 10 seconds (typically<5seconds)
Supply voltage	DC 24V Adapter
Work environment	-30℃ to 50℃; 5%-95%RH

Size(HxWxD): 140mm x 140mm x 95mm **Weight:** 895g
Accessories: Gift box with carrying case





Model GD-601

GD-600 Stationary Flammable GAS Alarm

This product is a combustible gas detector with a measurement range of 0-100% LEL. It has the characteristics of high stability and small sensitivity drift. It is mainly used in places where combustible gases (such as liquid fossil oil and gas, natural gas, biogas, etc.) may leak to detect whether combustible gases are leaking to ensure personal safety.

Features

- Gas alarm indication, audible and visual alarm
- Support RS485, 4-20MA and other signal output.
- Automatic zero calibration to maintain high sensitivity.

Specifications

Measuring range	0 to 100%LEL
Resolution ratio	1%LEL
Accuracy	±1% (Depending on the specific sensor)
Detection mode	Spread Type
Response time	≤30S
Zero wander	±5% (F.S/Year)
Recovery time	≤20S
Repeatability	±1%
Supply voltage	DC 24V Adapter
Work environment	Temperature: -40℃ ~ 70℃, Humidity: < 93% RH

Size(HxWxD): 140mm x 140mm x 95mm **Weight:** 895g
Accessories: Gift box with carrying case

CE

EMC
EN: 61326





Model GD-600

GD-3803
4 in 1 Multifunction GAS Meter



Model GD-3803

EMC
EN: 61326

3803 is a multifunction GAS meter that simultaneously measures and records O_2, CO, CO_2 temperature and humidity. It includes the relational software which can be used to program, download data and save logged files.

Features

Measures and logs Oxygen(O_2)、Carbon Monoxide(CO)、Carbon Dioxide(CO_2), relative humidity and temperature
High Accuracy gas sensor
Max/Min and average value display
Adjustable audible O_2, CO and CO_2 alarm
Display with backlight
Adjustable auto power off function
Mini USB interface Connections
Auto Power Off

Specifications

	Range	Resolution	Accuracy	Respond time
Oxygen Range (O_2)	1 - 30% vol. O_2	0.1%		＜15 Seconds
Carbon Monoxide(CO)	0 - 1000ppm	1 ppm	±5%F.S	＜2 Seconds
Carbon Dioxide(CO_2)	0 - 9999ppm CO_2	1 ppm	±75ppm or ±5% of reading	120 Seconds
Temperature Measurement	0°C to 50°C (32°F to 122°F)	0.1°C /°F	±1°C /1.8°F	
Humidity Measurement	0 to 100%RH	0.1%RH	±3.5%RH @20 to 80%RH ±5%RH @0 to 20%RH or 80 to 100%RH	
Operate Environment	0°C to 50°C (23°F to 122°F) at < 90%RH			

Size(HxWxD): 240mm x 75mm x 57mm **Weight:** 380g
Accessories : NiMH battery, gift box with carrying case.

H-80 Smart Home Air Quality Monitor



Model H-80



H-80 is a Smart Home Air Quality Monitor. The meter is equipped with a large-capacity rechargeable lithium battery. It is easy to operate, convenient and fast to use, and can be used for environmental monitoring in factories, schools, offices, room, traffic lines and other places.

Features

3.5” 480x800 TFT color LCD touch screen display
PM2.5 Particle Counter
NDIR (non-dispersive infrared) CO_2 sensor
Checks for Carbon Dioxide (CO_2) concentrations
Air Temperature and Humidity
Low battery indication
Bluetooth 5.0, WIFI interface
2700mAh Rechargeable lithium battery

Specifications

Function	Range	Resolution	Accuracy
Mass Concentration	PM2.5: 0～2000ug/m^3	1ug/m^3	
CO_2	0-5000ppm	1ppm	±5%±50ppm
Temperature	-10 to 50°C/ 14 to 122°F	0.1°C/°F	±1°C/1.8°F
Humidity	0 to 100.0%RH	0.1%RH	±3.5%RH(20 to 80%RH) ±5%RH(0 to 20%RH, 80 to 100%RH)

Size(HxWxD): 134mm x 62mm x 36.5mm **Weight:** 380g
Accessories : gift box with carrying case.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

GD-99/99B
O_3 Gas Detector

Electrochemical Exhaust Ozone Concentration Detector for gas concentration detection in a variety of industrial environments and special environments, with imported electrochemical sensors and microcontrollers technology for fast response, high accuracy, stability and repeatability , Machine performance ranks the world's leading level, the parameters of the user can customize the settings, simple operation. Using 2.0-inch industrial color screen, the perfect display of the technical indicators and gas concentration values, you can view the historical data on the screen, with storage, data export, temperature and humidity detection and other functions.

Features

Detecting O_3
Quick Response
Data-logger function
Sleep mode
Chart function
Max/Min/AVG mode
Screen brightness settings
Auto power off
Data transfer to PC via USB (CSV or EXCEL files)
Bluetooth interface (GD-99B)

Specifications

Measuring Range	0~20ppm		
Resolution	0.01ppm		
Air Temperature Range	0 to 50°C		
Humidity Range	0 to 100%RH		
Detection	Suction, built-in powerful suction device, flow rate: 50-500mL / min adjustable, can work in the micro-negative environment		
Response time	≤60s	Repeatability	≤±1%
Storage mode	real-time storage, can store data of 5000 group, you can view the historical data on the screen		



Model GD-99

EMC
EN: 61326

Bluetooth

Size(HxWxD): 185mm x 55mm x 38mm
Weight: 139g
Accessories : 3.7V Li-on battery, Clamshell.

DT-176 Waterproof pH/Conductivity Meter

176 Combination rugged Flat Surface pH electrode & innovative design with flat surface technology support quick on-the-spot pH measurements with autoranging high accuracy.

Features

Measures pH and Temperature using one electrode
Memory stores up to 25 labeled readings
RENEW feature alerts user when electrode needs replacement
Auto power off and low battery indicator
IP55 Waterproof

Specifications

Specifications	Range	Max Resolution	Basic Accuracy
pH	0.00 to 14.00pH	0.01pH	±0.01pH
Temperature	23° to 194°F (-5 to 90°C)	0.1°F/°C	±1.8°F/1°C
Waterproof	IP55		
Memory	25 datasets		

Size(HxWxD): 36mm x 186mm x 41mm
Weight: 110g
Accessories :
NiMH battery, gift box.



Combination flat surface pH electrode with Conductivity cell



EMC
EN: 61326

Model 176

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-22/2232

Multifunction Environment Meters

Temperature | 0~100% RH | 35~100 dB | Light (LUX/FC)

22/2232 digital Multifunction Environment Meter have been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, and Temperature Meter. They are ideal Multifunction Environment Instruments with scores of practical applications for professional and home use.



- 22: 4 in 1 environment meter. It is mini size with high technology for professional use.
- 2232: 4 in 1 multifunction environment meter with PC Interface.

Features

	22	2232
Digital display counts	2000	4000
PC Interface		*
Auto power Off	*	*
Low battery indication	*	*

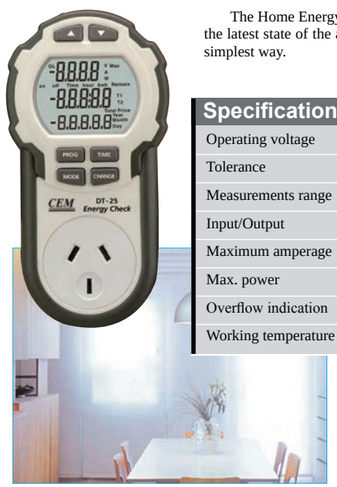
Specifications

Function	Max Range	Resolution	Basic Accuracy	22	2232
Light	20,000Lux	0.1Lux	±0.5%±10d	*	
	40,000Lux				*
Sound	100dB	0.1dB	±3.5dB	*	
	130dB				*
Humidity	95%RH	0.1%RH	±5%RH	*	*
Temperature	1300°C	0.1°C	±3%±1d	*	
	750°C/1400°F	0.1°C/°F	±3%±2d		*

Size(HxWxD): 121mm x 60.6mm x 40mm
Weight: 280g

Accessories :
22: Rubber holster, 9V battery, Test leads and K-Type temperature probe.
2232: Rubber holster, Test leads, K-Type temperature probe, 9V battery, RS-232 PC cable & Software diskette.

DT- 25 Home Energy Check



The Home Energy Check is a power-measuring device which complies with the latest state of the art. It enable you to determine the energy costs of "current eaters" in a simplest way.

Specifications

Operating voltage	230 V A.C., 50 Hz
Tolerance	± 1% ± 1 W (max. ± 2 % and ± 2W)
Measurements range	2,500 W; max. ± 4 % for measurements exceeding 2,500 W
Input/Output	Earthing protective contact plug and socket
Maximum amperage	Approx. 13 A
Max. power	3,000 W (= 3 kW = abt. 13 A x 230 V)
Overflow indication	Flashing signal from abt. 3,070 W
Working temperature	From +10 °C to +40 °C, rel. humidity of air < 75 %, noncondensing

Size(HxWxD):
140mm x 72mm x 43mm
Weight: 280g

Accessories :
Battery and clamshell.

T-12/T-12B/T-12S Timers

Model T-12B



Model T-12



Model T-12S

Accessories :
Battery and clamshell.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-8820

4 in 1 Multifunction Environment Meter

Temperature | 0~100% RH | 35~100 dB | Light (LUX/FC)

The 4 in 1 digital Multifunction Environment Meter has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, and Temperature Meter. It is an ideal Multifunction Environment Meter Instrument with scores of practical applications for professional and home use.

The Sound Level function can be used to measure noise in factories, schools, offices, home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The light sensitive component used in the meter is a very stable, long life silicon diode.

The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.



Features

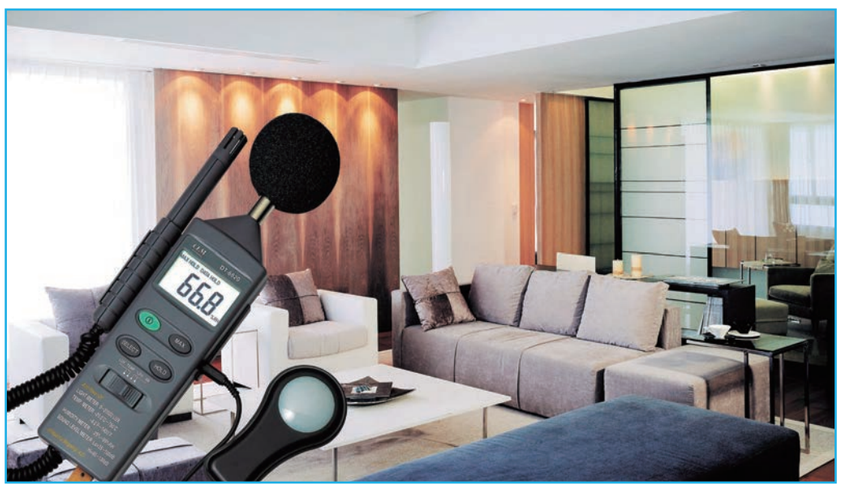
4 in 1 for Light meter, Sound level meter, Humidity/Temperature meter
$3^1/2$ large LCD display
Data Hold and Max Hold
Auto Power Off
"OL" Over-range indication
"BAT" Low battery indication
Total accuracy: for C.I.E standard illuminate A(2856K)

Specifications

Function	Range	Resolution	Accuracy(%rdg+digits)
Temperature (K-type)	-20ºC~200ºC	0.1ºC	±(3.0%+2ºC)
	-20ºC~750ºC	1ºC	±(3.0%+2ºC) ≤150ºC; ±3.0% ≥150ºC
	-4ºF~200ºF	0.1ºF	±(3.0%+2ºF)
	-4ºF~1400ºF	1ºF	±(3.0%+2ºF) ≤302ºF; ±3.0%≥302ºF
Light	20,200,2000,20000 (2000 x 10 Lux)	0.01,0.1,1	±(5.0%+10d)
Humidity	35%~95%RH	0.1%RH	±5.0%RH at 25ºC
Sound Level	35dB~100dB	0.1dB	±3.5dB at 94dB sound level, 1KHz sine wave

Size(HxWxD): 251mm x 63.8mm x 40mm
Weight: 250g

Accessories :
9V battery and K-type temperature probe, humidity probe, light probe, gift box with carrying case.



www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com



DT-D02

Intelligent indoor air quality monitoring system

This product for monitoring the quality of indoor air environment. It has the function of network communication. A variety of sensors are integrated in the equipment to monitor the environment in real time, for example PM2.5, PM10 sensor, temperature sensor, humidity sensor, formaldehyde sensor, CO2 sensor, CO sensor, photometric sensor, noise sensor, hot wind speed sensor, atmospheric pressure sensor and other high-precision sensors. 4G wireless communication function is adopted in communication,which is convenient for use in intelligent buildings and other occasions, The startup interface of the instrument is simple and beautiful, one button design which is easy for operation, 7-inch touch screen display which is convenient to operate.

Features

- Built in high-precision sensor provides accurate data measurement
- A variety of graphical and digital interfaces are mixed to display the changes of various data in real time
- Multi functional menu operation interface, rich in content and strong interaction
- High definition touchable 7-inch color LCD display with resolution of 1024x600
- Support finger touch screen operation
- Date and time setting
- Brightness adjustment and screen protection time selection
- The data recorded by the instrument can be exported to the computer
- Hanging and erecting integrated type, equipped with tripod
- Metal shell, high-end and beautiful
- Support a variety of data transmission modes, 4G, WiFi, etc

Specifications

Function	Range	Resolution	Accuracy
PM2.5/ PM10	9999ug/m^3	1ug/m^3	
CO_2 Measurement	0 to 9999PPM	1PPM	±75PPM ±3% of reading
CO Measurement	0 to 100PPM	0.1PPM	±5%F.S
HCHO Measurement	0 to 5.00mg/m^3	0.01mg/m^3	±5%F.S
Noise Measurement	40 to 130db	0.1db	±1.5dB (ref94db@1kHz)
Hot Wire Measurement	0 ~ 10.00m/s	0.01m/s	±0.5m/s±5%
Light Measurement	0 ~ 200000Lux	0.1Lux	±5%±20 Lux
Atmospheric pressure Measurement	300 ~ 1200mbar	1mbar	±3 mbar
Temperature Measurement	-20 ~ 70°C	0.1°C	±2°C
Humidity Measurement	0 ~ 100%RH	0.1%RH	±5%RH
Adapter	5V 1500mA		
Battery	3.7V 10400mAh		



Model D02

DT-D03S Thermal index monitor

Thermal index monitor can conduct simple and intuitive thermal index management.The monitor measures temperature and relative humidity and calculates the integrated temperature thermal index (WBGT). The sensor module can be connected with an extended cable.

Features

- Android, with a 5-inch RGB screen with a touch
- Storage: 4,000 groups
- Optional WIFI & Bluetooth
- Storage time interval: 1-255 minutes arbitrarily set
- Test the radiation temperature, air temperature, and natural wet ball temperature simultaneously
- Handheld host low power design, with automatic dormancy function and data record storage.It can last up to 15 days
- The software can export the data and generate tables and graphical curves
- Maximum, minimum, mean can be analyzed, stored and printed for any section
- The sensor is integrated on a special bracket to easily solve the placement problem of field testing
- It can pass the Chinese metrology department to meet the needs of safety supervision, occupational health and disease control law enforcement departments

Specifications

Function	Range	Resolution	Accuracy
Wet bulb temperature (Tw)	0 to 60°C (32 to 140°F)	0.1°C/ 0.1°F	±0.5°C/ ±0.9°F
Black ball temperature (Tg)	0 to 120°C (32 to 248°F)	0.1°C/ 0.1°F	±0.5°C/ ±0.9°F
Dry-bulb temperature (Ta)	0 to 120°C (32 to 248°F)	0.1°C/ 0.1°F	±0.5°C/ ±0.9°F
Air temperature (Temp)	0 to 50°C (32 to 122°F)	0.1°C/ 0.1°F	±1°C/ ±1.8°F
Humidity	0 to 100%RH	0.1%RH	±3.5% (20% to 80%) ±5% (0 to 20%) ±5% (80% to 100%)

Size(HxWxD): 188mm x 152mm x 51mm **Weight:** 560g
Accessories : gift box with carrying case.

CE
EMC
EN: 61326



Model D03S

Professional Particle Counter



- ***2.8"*** TFT color LCD display
- Support **Particle** measurement
- Support **Harmful Gases** measurement
- Support, **Air, Dewpoint, Wet bulb Temp**. &**Air humidity** measuremen
- Support **MicroSD** memory card extention
- Support **Images(JPEG)** capture capabilities
- Support **Video(3GP)** capture capabilities
- **Date/Time** setup controls
- ***USB*** interface
- Data Logger

This is a new type of particle counters, HVAC and IAQ specialist is the tool of choice, high-precision particle counter can be used to measure the filtration efficiency, monitoring, industrial clean rooms, pre-check the indoor air quality, locating particle sources in order to effectively improve the environment quality. This section particle counter has a large display, intuitive user interface and navigation map that allows users to test faster, simple and practical. Handheld design, can be used in any position, with Bluetooth or wireless technology or a USB cable for data output and the convenience of anytime, anywhere viewing and analyzing data.

Conformance

- ISO 21501-4
- Bluetooth interface
- Wi-Fi connectivity(9891)

CE

EMC
EN: 61326

Features

	9890	9891
3.5" TFT 960x480 pixels Color LCD display	*	*
Images(JPEG) & Video(3GP)	*	*
Simultaneously measure and display 6 channel of particle sizes, measure particle size down to 0.3 µm	*	*
Air temperature and humidity, Dewpoint & Wet bulb temperature	*	*
Max, Min, DIF, AVG record, Date/time setup controls, alarm	*	*
MicroSD (MAX. use 8GB) memory card, USB interface	*	*
Auto Power Off	*	*
Selectable sample time, count data, programmable delay	*	*
Store 10000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location label	*	*
Language selection English, Chinese, French, German, Spanish	*	*
Bluetooth interface		*
Wi-Fi connectivity		*

Specifications

Particle Counter	
Channel	0.3, 0.5, 1.0,2.5, 5.0, 10µm
Flow Rate	0.1ft^3(2.83L/min) controlled by internal pump
Light source	Laser
Count Modes	Cumulative,Differential Concentration
Count efficiency	50%@0.3um;>0.45um 100%(according to ISO21501)
Zero count	every five minutes counting(JIS B9921)
Concentration limits	10%, 4,000,000 particles per ft^3
Delay time	0 -24 hour
Calibration	PSL particles in air
Operation environment	10 to 40ºC（50ºF to 104ºF）
Storage environment	-10 to 50ºC（-14ºF to 122ºF）
Air Temperature Measure	
Air Temp Range	0 to 50ºC/32 to 122ºF; Basic Accuracy: ±1ºC/2ºF
Humidity Range	0 to 100%RH; Basic Accuracy: ±3.5%RH(20%~80%RH)
Dew Point Temp. Range	-30~100ºC/ -22~199ºF
Wet Bulb Temp. Range	0~80ºC/ 32~176ºF



Model 9891

Size(HxWxD): 92mm x 239mm x 63mm
Weight: 790g

Accessories:
3.7V Li battery, USB cable, CD, gift box with carrying case.



Main Menu



GAS Detectors



Show readings on the images



6 channel of particle sizes



Particle Counter



DT-9880/9881/9880M/9881M/9883M
Particle Counter with TFT color LCD display & Camera function

9880/9881/9880M/9881M are Particle Counter with 2.8" color TFT LCD display & a microSD memory card for capturing images(JPEG) or video(3GP) for viewing on your PC, providing fast, easy and accurate readings for particle counter, GAS (HCHO,CO) detectors, air temperature & relative humidity measurements. It is the first combination of these measurements in global, would be the best instrument for environment protection and energy save. The dewpoint temperature measurement will be very visiable for wet and dry proof. It is a good hand for industrial measurements and data analyzing, the real scene and time can be displayed on color TFT LCD. Any memory readings can be recorded in SD card. The user can be back in office to analyze the measured air quality under the support of software.
9883M is 4 in 1 Particle Counter.

CE
EMC
EN: 61326



Model 9880

Features

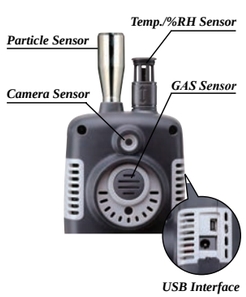
	9880	9881	9880M/9881M	9883M
2.8" TFT 320x240 pixels Color LCD display	*	*	*	*
Images(JPEG) & Video(3GP)	*	*	*	*
Simultaneously measure and display 6 channel of particle sizes, measure particle size down to 0.3 μm	*	*	*	*
The determination of suspended particle concentration in the air of the weight method (PM2.5/PM10)			*	*
GAS (HCHO,CO) detectors		*	-/*	*/-
TVOC, CO_2				*
Air temperature and humidity, Dewpoint & Wet bulb temperature	*	*	*	*
Max, Min, DIF, AVG record, Date/time setup controls, alarm	*	*	*	*
MicroSD (MAX. use 8GB) memory card, USB interface	*	*	*	*
Auto Power Off	*	*	*	*
Selectable sample time, count data, programmable delay	*	*	*	*
Store 5000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location label	*	*	*	*
Language selection English, Chinese, French, German, Spaish	*	*	*	*

Specifications

Particle Counter		9880	9881	9880M 9881M	9883M
Channel	0.3, 0.5, 1.0,2.5, 5.0, 10μm	*	*	*	*
Flow Rate	$0.1ft^3$(2.83L/min) controlled by internal pump	*	*	*	*
Count Modes	Cumulative, Differential,Concentration	*	*	*	*
Coincidence Loss	5%, 2,000,000 particles per ft^3	*	*	*	*
Mass Concentration Channel	PM2.5 : 0~500ug/m^3 ; PM10: 0~500ug/m^3			*	*
Air Temperature Measure					
Air Temp Range	0 to 50ºC/32 to 122ºF; Basic Accuracy: ±0.5ºC/1ºF	*	*	*	*
Humidity Range	0 to 100%RH; Basic Accuracy: ±2.5%RH(20%~80%RH)	*	*	*	*
Dew Point Temp. Range	-30~100ºC/ -22~199ºF	*	*	*	*
Wet Bulb Temp. Range	0~80ºC/ 32~176ºF	*	*	*	*
GAS Detectors					
HCHO (methanal) Range	0.01~5.00ppm; Basic Accuracy: ±5%F.S		*	-/*	*
CO (carbon monoxide) Range	0~1000ppm; Basic Accuracy: ±5%F.S		*	-/*	
CO_2 Range	0~9999ppm; Basic Accuracy: ±75PPM ±5% of reading				*
TVOC Range	0.00~10mg/m^3; Accuracy: ±5%F.S				*

Size(HxWxD): 240mm x 75mm x 57mm
Weight: 570g

Accessories :
NiMH battery, gift box with carrying case.





Main Menu



GAS Detectors


Show reading on the images


JPG images/AVI videos

DT-9850M/9851M

Particle Counter with TFT color LCD display



EMC
EN: 61326

Model 9851M

9850M/9851M are Particle Counter with 2.8" color TFT LCD display & a microSD memory card, providing fast, easy and accurate readings for particle counter, HCHO detector, air temperature & relative humidity measurement. It is the first combination of these measurements in global, would be the best instrument for environment protection and energy save. The dewpoint temperature measurement will be very visible for wet and dry proof. It is a good hand tool for industrial measurements and data analyzing, the real scene and time can be displayed on color TFT LCD. Any memory readings can be recorded in SD card. The user can be back in office to analyze the measured air quality under the support of software.

Specifications

Particle Counter	
Channel	0.3, 2.5, 10μm
Flow Rate	0.1ft^3(2.83L/min) controlled by internal pump
Count Modes	Cumulative, Differential,Concentration
Coincidence Loss	5%, 2,000,000 particles per ft^3
Mass Concentration Channel	PM2.5: 0~500ug/m^3 ; PM10: 0~500ug/m^3
Air Temperature Measure	
Air Temp Range	0 to 50ºC/32 to 122ºF; Basic Accuracy: ±1ºC/1.8ºF
Humidity Range	0 to 100%RH; Basic Accuracy: ±3.5%RH(20~80%RH)
	±5%RH(0~20%RH)
	±5%RH(80~100%RH)
Dew Point Temp. Range	-30~100ºC/ -22~199ºF
Wet Bulb Temp. Range	0~80ºC/ 32~176ºF
HCHO Detectors (9581M)	
HCHO (methanal) Range	0.01~5.00ppm; Basic Accuracy: ±5%F.S

Size(HxWxD): 240mm x 75mm x 57mm
Weight: 570g

Accessories :
NiMH battery, gift box with carrying case.

PM-280/CM-280 PM2.5 Air Quality Detector



EMC
EN: 61326

Model PM-280

Features

PM2.5/PM10 (PM-280)
Air temperature and humidity
HCHO/ TVOC/CO detection
CO_2 detection (CM-280)
Auto Power Off
Wireless interface



Specifications

	Size Channels	Range	Resolution	Accuaacy	PM-280	CM-280
Particle counter	PM2.5/PM10	0~2000ug/m^3	1 ug/m^3		*	
HCHO detection		0.00~5.00ppm	0.01ppm	±5% F.S	*	*
TVOC detection		0.00~9.99ppm	0.01ppm	±5% F.S	*	*
CO_2 detection		0~9999ppm	1ppm	±75 ppm ±5% of reading		*
CO detection		0~1000ppm	1ppm	±5% F.S	*	*
Temperature		-10 to 60°C / 14 to 140°F	0.1°C /°F	±2°C (±3.6°F)	*	*
Humidity		0~100%RH	0.1%RH	±3.5%RH(20~80%RH) ±5%RH (0~20%RH/80~100%RH)	*	*

Size(HxWxD): 112mm x 60mm x 50mm **Weight:** 240g
Accessories : NiMH battery, gift box with carrying case.

DT-9680/9681/9682

Air Quality Monitor

9680 Series is Particle Mass Concentration Monitor with LCD display, providing fast, easy and accurate readings for particle counter, air temperature & relative humidity measurements. It can real-time monitor the indoor air quality and can store 5000 data, help you know the the health level of indoor environment. It will open the wireless interface, implementing household electronic products such as air conditioner, air purifier, so as to realize home automation and environment protection.

Features

	9680	9681	9682
Digital LCD display	*	*	*
Indicates health level of indoor environment.	*	*	*
PM2.5/PM10	*	*	*
HCHO detector	*	*	*
TVOC detector	*		*
CO_2 detector		*	*
Air temperature and humidity detector	*	*	*
Memory for 100 complete data sets (counts, relative humidity, temperature, date, time)	*	*	*
Date/Time setup controls, alarm	*	*	*
Low-power consumption mode	*	*	*
Wireless interface (Optional)			

Specifications

		9680	9681	9682
Particle Mass Concentration				
Channel	PM2.5 : 0~999ug/m³	*	*	*
Channel	PM10 : 0~999ug/m³	*	*	*
Air Temperature Measurement				
Air Temp Range	-20 to 70℃/-4 to 158℉; Basic Accuracy:±1℃/℉	*	*	*
Humidity Range	0 to 100%RH;	*	*	*
Basic Accuracy:	±3.5%RH@20 to 80%RH ±5%RH@0 to 20%RH or 80 to 100%RH	*	*	*
Gas Detectors				
HCHO Range	0.01~5.00 ppm; Basic Accuracy: ±5% F.S	*	*	*
TVOC Range	0.01~9.99 ppm; Basic Accuracy: ±5% F.S	*		*
CO2 Range	0~10000 ppm; Basic Accuracy: ±5%±75ppm		*	*

Size(HxWxD): 160mm x 85mm x 73mm
Weight: 360g

Accessories :
NiMH battery, gift box.



EMC
EN: 61326

Model 9680

DT-968/968W/969/969W PM2.5 Air Quality Detector

968/969 is a new core algorithm, comprehensive dynamics, night detection, digital signal processing, optical electro-mechanical integration, and other high-tech. Testing has high precision, stable performance, fast response time, easy to carry, easy to operate. On PM2.5 testing to innovative design and algorithm, greatly reducing the cost of the tester, and reach the international advanced level of similar products.

Dewpoint Wet bulb

Features

2.4" TFT 320 x 240 pixels Color LCD display	968	968W	969	969W
PM2.5/PM10	*	*	*	*
Air temperature and humidity	*	*	*	*
Analog bar indicator	*	*	*	*
Auto Power Off	*	*	*	*
HCHO			*	*
Wireless interface		*		*

Specifications

		968	968W	969	969W
Particle Counter Channel	2.5,10um	*	*	*	*
Mass Concentration	PM2.5:0～2000ug/m^3;PM10:0～2000ug/m^3;	*	*	*	*
Resolution	1ug/m^3	*	*	*	*
HCHO	0.00~5.00mg/m³			*	*
HCHO Accuracy	±5%F.S			*	*
Air Temperature Measurement					
Air Temp Range	0 to 50℃/32 to 122℉	*	*	*	*
Basic Accuracy	±1℃/1.8℉	*	*	*	*
Humidity Range	0 to 100%RH	*	*	*	*
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH	*	*	*	*

Size(HxWxD): 103mm x 60mm x 51mm
Weight: 146g

Accessories :
NiMH battery, gift box.



Wi Fi

EMC
EN: 61326

Model 968

DT-96/96B/96H
Mini Particle Counter





EMC
EN: 61326

Model 96

96 Particle Counter with 2.0” color TFT LCD display provides fast, easy and accurate readings for particle counter & particle mass concentration with air temperature & relative humidity measurements. It is the first combination of these measurements in global, would be the best instrument for environment protection and energy save.
96B provides particle counter, air temperature, relative humidity with Bluetooth interface.
96H provides particle counter, air temperature, relative humidity & HCHO Measurement.

Features

	96	96B	96H
2.0” TFT 220*176 pixels Color LCD display	*	*	*
The determination of suspend particle concentration in the air of the weight method (PM2.5/PM10)	*	*	*
Particle Counter PM2.5/PM10	*	*	*
Air temperature and humidity	*	*	*
Auto Power Off	*	*	*
Real time clock display	*	*	*
Analog bar indicator	*	*	*
HCHO Measurement			*
Bluetooth interface		*	*

Specifications

		96	96B	96H
Particle Counter				
Channel	2.5,10um	*	*	*
Mass Concentration	PM2.5:0～2000ug/m3; PM10:0～2000ug/m3;	*	*	*
Resolution	1ug/m3	*	*	*
Air Temperature Measure				
Air Temp Range	0 to 50℃/32 to 122℉	*	*	*
Basic Accuracy	±1℃/1.8℉	*	*	*
Humidity Range	0 to 100%RH	*	*	*
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH	*	*	*
HCHO Measurement				
HCHO Range	0 to 5.00PPM			*
Basic Accuracy	±5% F.S			*

Size(HxWxD): 185mm x 55mm x 38mm
Weight: 139g

Accessories :
NiMH battery, gift box with carrying case.

DT-122
WBGT Thermal Index Meter

The 122 WBGT Thermal Index meter measures temperature, humidity, human body temperature and thermal index (WBGT). Features user-adjustable WBGT audible alarms and the ability to adjust indoor or outdoor measurement Settings. It features an easy-to-read LCD display, as well as a four-level LED indicator.

Features

- The measurement shows: ambient temperature and humidity, body temperature and WBGT
- The IN/OUT mode is displayed
- User can choose the temperature unit (℃/℉)
- WBGT alarm value can be set
- Alarm sound size setting
- Four indicator lights: Attention (blue), warning (green), serious warning (yellow), danger (red)
- Low battery indicator

EMC
EN: 61326



Model 122

Specifications

Function	Range	Resolution	Accuracy
WBGT	0-50℃	0.1℃/℉	±1.0℃ (20 to 40℃); other: ±2.0℃
Temperature	0-50℃	0.1℃/℉	±1℃
Human Body Temperature	32.0-42.5℃	0.1℃	±0.3℃
Humidity	0-100%RH	0.1%RH	±3.5%RH (20%-80%RH); ±5%RH (0%-20%RH/ 80%-100%RH)
Black Globe Temperature	20-60℃	±1.0℃ (0-40℃); other ±2℃	
Operating Temperature	0-50℃ (32-122℉)		
Storage Temperature	0-60℃ (32-140℉)		

Size(HxWxD): 210mm x 67mm x 38mm **Weight:** 190g
Accessories: 2 x 1.5V battery, gift box with carrying case.

PM-122 PM2.5 Air Quality Detector

PM-122 is a new core algorithm, comprehensive dynamics, night detection, digital signal processing, optical electromechanical integration, and other high-tech. Testing has high precision, stable performance, fast response time, easy to carry, easy to operate.

Features

- 2.4” TFT 320 x 240 pixels Color LCD display
- The determination of suspend particle concentration in the air of the weight method (PM2.5/PM10)
- Air temperature and humidity
- Analog bar indicator, Wireless interface
- Auto Power Off

EMC
EN: 61326



Model PM-122

Specifications

Particle Counter Channel	2.5,10um	
Mass Concentration	PM2.5:0～2000ug/m3;PM10:0～2000ug/m3;	
Resolution	1ug/m3	
Air Temperature Measurement		
Air Temp Range	0 to 50℃/32 to 122℉	
Basic Accuracy	±1℃/1.8℉	
Humidity Range	0 to 100%RH	
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH	

PM-125/127 PM2.5 Air Quality Detector

PM-125/127 is the device that contains PM2.5, PM10, HCHO, TVOC, CO2, temperature and humidity detecting. The device uses high precision sensor to ensure the reliability of detecting. What makes it different is the PM-127 uses NB-iot(Narrow Band Internet of Things) technology.

Features

	PM-125	PM-127
Intelligent control purifiers, air purification equipment new fan	*	*
Detecting PM2.5&PM10&CO_2 (HCHO&TVOC Optional)		*
2.8’’ TFT Color display with 320*240 Pixels	*	*
Simultaneous measurement of PM2.5 and PM10	*	
Analog bar indication & Auto power off	*	*
Wi-Fi IEEE802.11b/g/n Communication Interface	*	*
AC-220V&DC-24V power supply		*
NB-iot remote communication, RS-485 communication interface		*



Model PM-125

NB-iot



Model PM-127

Specifications

	Range	Accuracy	Resolution
Particle counter PM2.5/PM10	0~2000ug/m3		1 ug/m3
HCHO detection	0.00~5.00ppm	±5% F.S	0.01ppm
TVOC detection	0.00~9.99ppm	±5% F.S	0.01ppm
CO2 detection	0~9999ppm	±75 ppm ±5% of reading	1ppm
Temperature	-10 to 60°C / 14 to 140°F	±2°C (±3.6°F)	0.1°C /°F
Humidity	0~100%RH	±3.5%RH(20~80%RH) ±5%RH(0~20%RH/80~100%RH)	0.1%RH



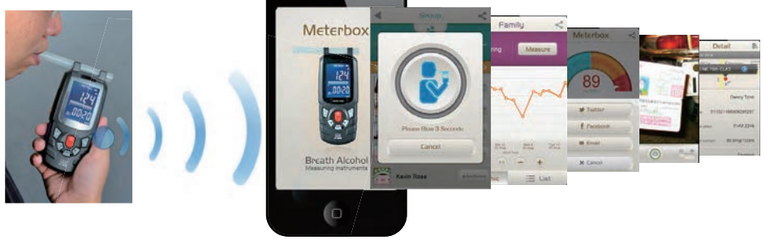


Alcohol Tester



iAlcotest software
for Alcohol Tester

The smart choice
- Scene mode
- Party mode
- Police mode
- Driving self testing
- Group assignment
- Family use
- History record for each mode



800A/800B are simple to use, rapid response tester that are used to determine whether or not a person has any alcohol in has breath. They use the fuel cell sensor, so the reading is impossible to be affected by anything in the subject's breath other than alcohol.
800A is with red and blue backlit alarm for drunkenness.
800B is with red LED alarm for drunkenness.

Features

	800A	800B
Fuel cell sensor is high accuracy and reliability	*	*
Short warm up time, fast response and recovery time	*	*
Magnificent man-machine interaction interface, real time reading display	*	*
Two stages acousto-optic alarm for drink and drunkenness	*	*
Auto power off under lack of pressure, refuse test and interruption indication	*	*
Five detection unit selectable (mg/L,mg/100ml,g/L,%BAC,‰BAC), Alarm level adjustable	*	*
Disposable backflow blowing nozzle design, safety and health	*	*
High capacity rechargeable battery power	*	*
Multinational drunk driving alarm threshold selection	*	*
Red and blue backlit alarm	*	
Red LED alarm, datalogger and storage function		*
Detection data centralized management and USB interface to PC		*
Built-in Bluetooth, the detection data can be transferred and shared with cloud storage and cloud computing of the meter's cloud service by a smart mobile.		*
The historical record of the inquiry function		*

CE
EMC
EN: 61326



Model 800A

Specifications

Function	Range	Resolution	Accuracy
Measurement	0.000mg/L ~1.500mg/L	0.001mg/L	C<0.400 : ±0.020mg/L 0.400≤C<1.000 : ±5% C≥1.000 : ±20%
Repeatability	C<0.400 : 0.007mg/L, 0.400≤C<1.000 : 1.75%, C≥1.000 : 6%		
Calibration cycle	6 months		
Operation temperature range	0 ~ 50ºC		
Storage temperature range	-10 ~ 60ºC		
Breath flow continuity	3s (flow: >20L/min)		
Working voltage	7.4V (Rechargeable battery)		

Size(HxWxD): 240mm x 160mm x 100mm
Weight: 584g

Accessories:
7.4V Li battery, power adaptor, pipe, gift box with carrying case.







Model 800B

DT-8000/8100

Professional Alcohol Tester



Model 8000

CE

EMC
EN: 61326



Bluetooth

Model 8100

This breath alcohol detector is a special instrument for testing breath alcohol concentration, which adopts the fuel cell alcohol sensor that has professional grade accuracy, high sensitivity and repeatability. Simplified keyboard makes the instrument more concise and easier to operate, the user only needs to boot the tube blowing, the instrument will can automatically measure, the inside of the instrument is provided with multiple national drunk driving standard, when measured breath alcohol concentration exceeds a predetermined value, the instrument will automatically audible and visual alarm. The instrument with backlight LCD display and intuitive clarity, structure compact, easy to carry and use.This is a reminder for your safe travel.

Features

	8000	8100
Fuel Cell. Alcohol sensor, high accuracy and reliability	*	*
Magnificent man-machine interaction interface	*	*
Two stage acousto-optic alarm for drink and drunkenness	*	*
Refuse test and interruption indication	*	*
Five detection unit selectable (mg/L,mg/100ml,g/L,%BAC,‰BAC)	*	*
Disposable backflow blowing nozzle design, safety and health	*	*
High capacity rechargeable battery powered	*	*
Multinational drunk driving alarm threshold selection	*	*
Auto power off	*	*
Built in camera, Bluetooth interface		*

Specifications

Function	Range	Resolution	Accuracy
Measurement	0 to 2.500 mg/L, 0 to 0.500%BAC 0 to 500 mg/100ml	0.001% BAC	-0.040mg/L or -10% of reading
Sensor	Professional fuel cell sensor		
Response time	≤5s		
Operating Temperature	0°C to 40°C		
Storage Temperature	-10°C to 60°C		
Power supply	Rechargeable battery		

Size(HxWxD): 200mm x 78mm x 36mm
Weight: 504g
Accessories: 7.4V Li battery, power adaptor, pipe, gift box with carrying case.



AL-01

Portable Civilian Breath Alcohol Detector

This product is a portable civilian breath alcohol detector. Coupled with fuel cell alcohol sensor, professional precision, high sensitivity and repeatability. Small and simple, easy to operate, users only need to turn on the blow tube, the instrument will automatically detect. When the concentration exceeds the standard, it will automatically sound and light alarm. Compact structure, easy to carry and use. This is a reminder of your travel safety.

Features

Fuel cell alcohol sensor, high precision, high reliability
Five test units are optional (mg/L, mg/100ml, g/L, %BAC, ‰BAC)
Portable and small, easy to carry
Disposable reflux nozzle design , safe and sanitary
Automatic shutdown

Specifications

Measurement Range	0 to 2.500 mg/L, 0 to 0.500%BAC, 0 to 500 mg/100ml
Resolution	0.001% BAC
Accuracy	-0.040mg/L or -10% of reading
Response time	≤5s
Alarm mode	Audible and visual alarm
Operating temperature	0°C to 40°C
Storage temperature	-10°C to 60°C
Power supply	Rechargeable battery

CE

EMC
EN: 61326





Model AL-01

Size(HxWxD): 160mm x 55mm x 35mm
Weight: 205g
Accessories: 7.4V Li battery, power adaptor, pipe, gift box with carrying case.

RocarMini Mini Breath Alcohol Detector

RocarMini can accurately detect the alcohol concentration of human oral exhale. It can be used to detect the alcohol concentration of your body at any time, so as to prevent excessive drinking and protect your health.

Features

TypeC/Lightning interface
Mobile phone power supply, no additional battery installation
App record data
Environmental alcohol detection
Excessive drinking warning
Evaluation of hangover power

Specifications

Range	0.0 ~ 500.0 mg/100mL
Accuracy	0.0 (+0.3)mg/100mL
	22.0 (-5 ~ +10)mg/100mL
	88.0 (-10 ~ +20)mg/100mL

Size(HxWxD): 172mm x 26mm x 23mm **Weight:** 126g
Accessories: Gift box.

CE

EMC
EN: 61326



Model RocarMini



Vehicle Maintenance Solutions

a varied section of products for vehicle maintenance can support to measure PPM, Dwell, Angle, Car current, Battery tester, Relay tester, Tire pressure etc.



www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com



Vehicle maintenance solutions



Automotive Oscilloscope DMM with TFT color LCD display

P521

9996 is Professional Automotive True RMS Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features.



Auto-ranging Automotive Digital Multimeters

P531

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- 17 Functions including DCV, ACV, VFD, LoZ, DCA, ACA, Resistance, RPM (Tach), pulse width (mS), Dwell angle, Duty cycle, Frequency, Temperature (IR Temperature) (°C/°F), Capacitance, Continuity and Diode Check.
- Measuring Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.



EVSE Test Adapter Kit for Electric Vehicle Charging Station

P525

The EVSE-200 is an extender for interfacing Electric Vehicle Supply Equipment (EVSE) to test socket of installation tester for verification of electrical safety and functional testing. It is intended for testing Mode 3 EV supply equipment with type 2 connector.
The ESVE-200 adapter allows you to conduct tests in combination with appropriate test instruments like an installation tester (for example DT-6650 Series).



Automotive Battery Tester

P527

BT-120/130 is battery Conductance and Electrical System Analyzer which can be used to detect 6 volt-12 volt ordinary lead-acid batteries. It can display test results in seconds.



Coating Thickness Tester

P530

Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

Professional Automotive Oscilloscope Multimeter with TFT color LCD display



- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature(°C/°F), Capacitance, Continuity and Diode Check.
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Measuring Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic trans mission controls.



Bluetooth PC interface

AT-9996/9996BT
Professional Automotive Oscilloscope DMM with TFT color LCD display





9996 is a Professional Automotive True RMS Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features.

- ***IP67 dust and water proof***
- ***True RMS***
- ***Cloud computing***

Model 9996

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

- ***TFT color LCD display***
- ***6000 counts***

EMC & LVD
EN: 61326
EN: 61010-1, EN: 61010-02-031



Features

Large 6000 count 320 x 240 TFT color LCD display
Bluetooth 4.0 (AT-9996BT)
AC, AC+DC true-RMS measurements
Records events and trends
Saves measurements
A/D convert fast sampling time
Min/Max
Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
Data Hold, Relative functions/ Auto Power Off
Fused current inputs and Overload protection on all ranges.
Measuring Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.
IP67 dust and water proof

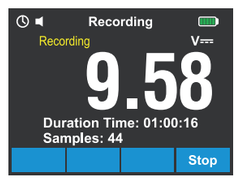
Specifications

Automotive True RMS Multimeter Functions				**AT-9996**	**AT-9996BT**
Function	Maximum	Max resolution	Accuracy	*	*
Voltage DC	1000V	0.1mV	±(0.9% + 5d)	*	*
Voltage AC	1000V	0.1mV	±(1.5% + 5d)	*	*
Current DC	10A	0.1μA	±(1.5% + 3d)	*	*
Current AC	10A	0.1μA	±(1.8% + 5d)	*	*
Temperature	-40°C to 1000°C -40°F to 1832°F	0.1°C/1°C 0.1°F/1°F	±(3.0%)	*	*
Resistance	60MΩ	0.1Ω	±(1.0% + 2d)	*	*
Capacitance	60mF	0.01nF	±(4.0% + 5d)	*	*
Frequency	10MHz	0.01Hz	±(1.0% + 5d)	*	*
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)		±(2.5%+4d)	*	*
Dwell Angle	4CYL, 5CYL,6CYL, 8CYL		±(2.5%+4d)	*	*
Duty Cycle	0.1~99.9%		±(2.0%+5d)	*	*
Period	60mS		±(3.0%+5d)	*	*
Pulse Width	30mS		±(3.0%+5d)	*	*
Diode and Continuity	Yes			*	*
Bluetooth 4.0					*

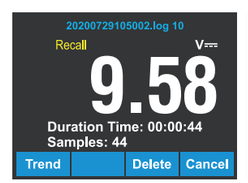
Size(HxWxD): 220mm x 96mm x 60mm
Weight: 631g
Accessories:
Test leads, 6x1.5V AA batteries, Type K temperature probe, Software, gift box with carrying case.



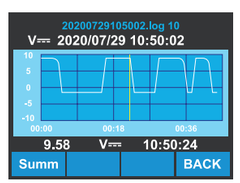
SETUP Operation



Start recording



Recording in memory



Trend Capture function

EV Charging Station Test Analyzer

EVSE-1550 is an all-in-one Electric Vehicle Charger Checker for Level 1 and Level 2 with wireless connectivity. The EV-connectors for Type 1 and Typ 2 connectors designed Electric Vehicle charger checker performs EV charger safety checks and operation checks with additional Insulation test, Earth Loop resistance test to ensure the safety and functionality of EV Charger compliance with IEC61851-1. Measuring datas can be transmitted to smart phones via bluetooth and visually analyze and store.



Features

- Larger and higher quality 1024x768 IPS 8” color TFT display
- Perform EV charger safety checks and operation checks
- RCD/GFCI Trip time/current measurement
- Embedded high capacity Li-Poly rechargeable battery
- Adding Earth loop resistance test
- Adding Insulation test for charging cable

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT III 600V

EN 61010-1 CAT IV 300V



Model EVSE-1550

Specifications

Supply Measurement			
	Range	Resolution	Accuracy
Voltage	5V to 300V	1V	±(5.0% + 2 digits)
Voltage Measurement	L to N, L to PE and N to PE		
Revese polarity indicaiton	L to N, for single phase option only		
Freqeuncy Range	45 Hz to 65 Hz	1Hz	±1digits
EVSE INTERFACE(EV charger function)tests			
Proximity detection (PP) states	No proximity/ Proximity detected, unlatched/ Proximity detected, latched		
Control pilot (CP) states			
Set and read states	State A-Disconnected/ State B-Connected/ State C-Charging/ State D-Charging with ventilation/ State E-CP short to PE		
0-Read only state	State F-EVSE charger fault condition		
Maximum voltage	± 14V		
Frequency range	940 Hz to 1040 Hz		
Duty Cycle range	8% to 97%		
Maximum charging current indication	According to IEC61851-1:2017, table A.7 and A.8		
Personal Protection RCD/GFCI Tests			
Trip time accuracy	±(1% + 1 ms)		
Trip current accruacy	±3% (Apply to all RCD/ GFCI tests)		
Personal Protection Tests, 230V single phase/ 400V three phase			
	Test Current	Max. Test time	Polarity selection
RCD 30mA AC Test	31.5mA AC (5% above nominal trip current)	300ms	0° and 180° of an input sine wave
RCD 6mA DC Test	6mA DC (5% above nominal trip current)	300ms	0° and 180° of an input sine wave
Personal Protection Tests, 120V Single phase/240V two phase			
GFCI/CCID 5mA AC Test	6mA AC (5% above nominal trip current)	300ms	0° and 180° of an input sine wave
GFCI/CCID 20mA AC Test	21mA AC (5% above nominal trip current)	300ms	0° and 180° of an input sine wave
Tripping Current Ramp Up Test, 230V Single phase/ 400V three phase			
	Test Current	Step time	Max. Test time
RCD AC Ramp test	AC Current ramp up to 30mA in 2 mA steps	300ms	4.5 s
RCD DC Ramp test	Up at rate of 6mA in 2.5s, then held at 6mA DC	300ms	11.25s
Tripping Current Ramp Up Test, 120V single phase/240V two phase			
GFCI/CCID 5mA AC test	AC Current ramp up to 6mA in 0.5mA steps	100ms	1.2 s
GFCI/CCID 20mA AC test	AC Current ramp up to 20mA in 1mA steps	100ms	2 s
Touch Voltage Test			
50V limit	Test current typically 1/3 of RCD nominal test current		
Earth Loop Impedance			
Suppy Voltage	95V-253V 45Hz to 65Hz	1 Ω maximum	
Nonimal Test Current	<15mA, (will not trip 20mA GFCI)		
Display range	1 Ω-1.99k Ω		
Insulation Resistance			
Display range	0.01M Ω to 19.9M Ω	0.01M Ω maximum	
Open circuit test voltage	500V		
Short circuit test current	<2mA		
Protection	Warning if >30V AC or DC present		

Size(HxWxD): 276mm x 86mm x 212mm **Weight:** 1.2kg
Accessories : Adaptor: Type 2 to NACS, Type 2 to Type 1, USB cable type C, Carrying Pouch with shoulder strap.

EVSE Test Adapter Kit for Electric Vehicle Charging Stations



The EVSE-200 is an extender for interfacing Electric Vehicle Supply Equipment (EVSE) to test socket of installation tester for verification of electrical safety and functional testing. It is intended for testing Mode 3 EV supply equipment with type 2 connector.
The ESVE-200 adapter allows you to conduct tests in combination with appropriate test instruments like an installation tester (for example DT-6650/6653/6656 Series).

Functions

- PE Pre-Test: With this safety feature the PE conductor can be tested for possible presence of dangerous voltage against earth.
- Proximity Pilot (PP) state “Cable Simulation”: With PP State rotary switch the adapter can simulate various current capabilities of charging cables.
- Control Pilot (CP) state “Vehicle Simulation”: With CP State rotary switch selector various charging states can be simulated.
- Simulation of CP error “E”
- Simulation of PE error (Earth fault)
- Simulation of PE error (Earth fault)

Product information

- Suitable to vehicle charging stations with charging mode 3
- EV-connectors for type 2 and type 1
- Measuring terminals L1, L2, L3, N and PE to connect test device like installation tester to perform safety and functional tests.
- Terminals for CP signal output to check communication between adapter (=simulated electrical vehicle) and charging station.

Product highlights

- Separate phase indication by three LED lamps for easy check if voltage is present.
- Mains socket offering the possibility to connect an external load to check if the electric power meter works and counts in the right manner.
- IP 54 rating - Dust and splashing water protected

EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

EN 61010-1 CAT II 300V



Model EVSE-200

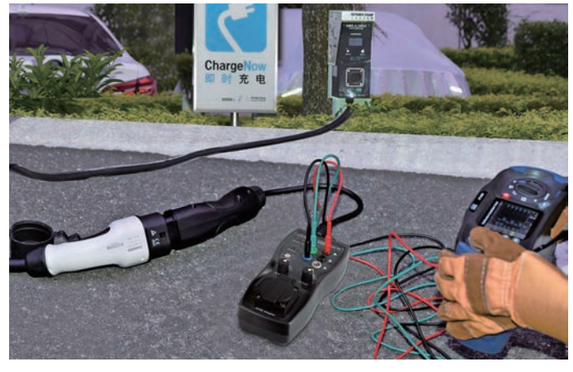
The EVSE-200 adapter simulates the presence of a connected electrical vehicle, by allowing the station to release a charging output voltage. With line (L1, L2, L3),Neutral,and Ground inputson the EVSE-200 you can perform a full safety installation test using the 6650 Series.

Technical specifications

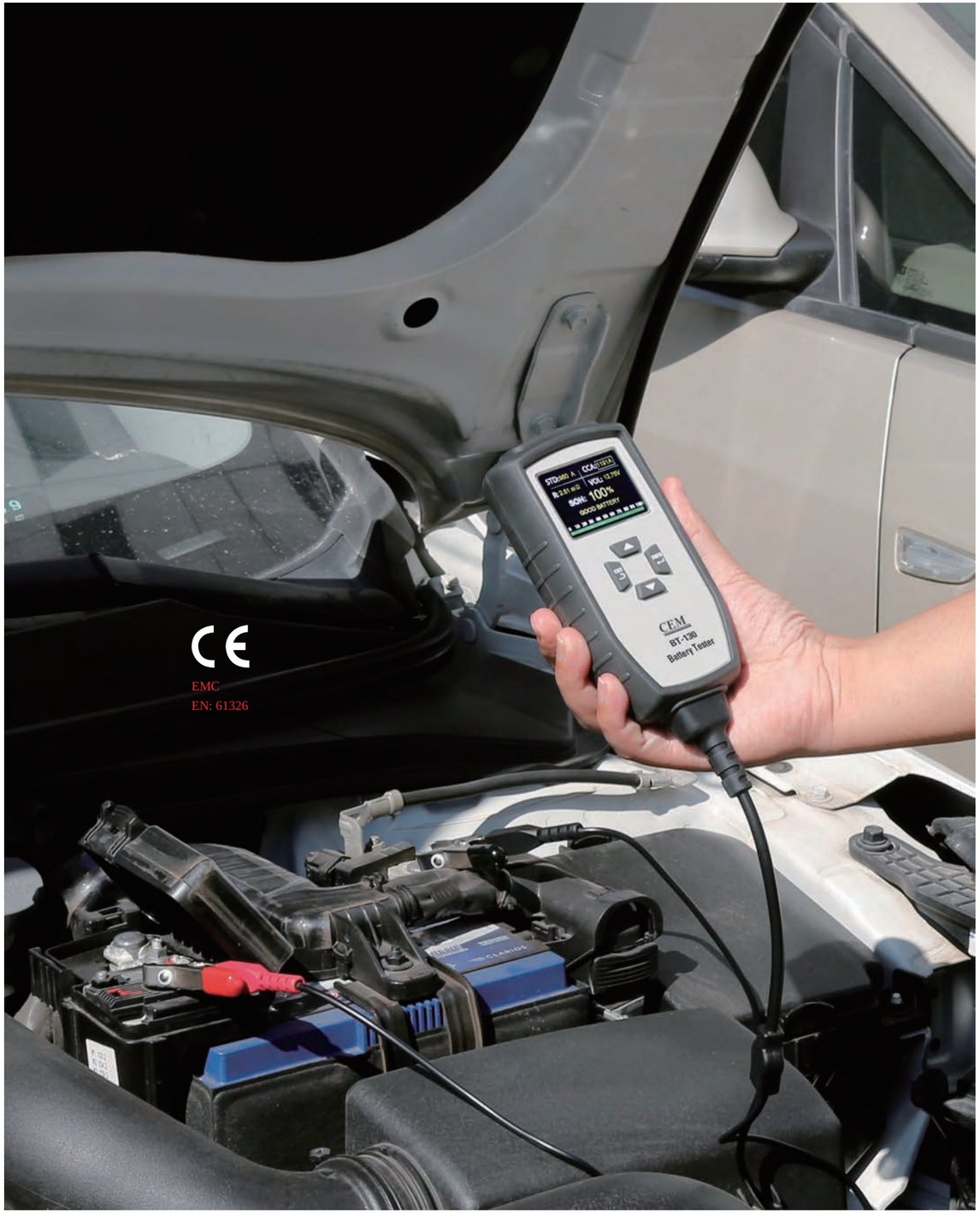
Input	Max.250V (single -phase system)/max.430V (three -phase system).50 /60HZ,MAX 10	
EVC -200 -Connector	AC charging mode 3. Suitable for type 2 wall top contact or fixed cable with vehicle connection (type 2. 7P operational phase)	
EVC -100 -Connector	AC charging mode 3. Suitable for type 1 with vehicle connection (Type 1,5P single -phase)	
Dimensions(B*H*L)	235*60*60mm(length without connecting cable)	
Weight	832g(Weight without connecting cable)	
IP protection	IP54	
Safety	IEC/EN 61010-1 IEC61010-2	
Overvoltage category	CAT II 300V	
Pollution degree	2	
Protection classification	double insulation	
Altitude	Max 2000 meters above sea level	
Working temperature range	0°C...40°C	
Maximum relative humidity	95 %RH (0°C ~ 40°C), non-condensing	
Storage temperature range	-10°C ~ 50°C	
Maximum relative humidity	90 %RH (-10°C ~ 40°C) 80 %RH (40°C ~ 60°C)	
PE pre-test	yes	
PP simulation	open(Error condition or disconnection of plug)	
	13A	Coding for maximum current of the EV cable. EVSE is connected and can operate in any of these coding position.
	20A	
	32A	
	63A	
CP simulation	states A（EV disconnected）	
	states B（EV connected）	
	states C（EV charged without ventilation）	
	states D（EV charged with ventilation）	
CP error“E”	on(CP short to PE via diode)/off	
PE error	on (PE error)/off	

Size(HxWxD): 208mm x 105mm x50mm **Weight:** 832g
Accessories: Type 2 play(standard), Type 1 play(Optional), Gift box & Carrying case.

Models			
	6650	6653	6656
EV Test 6 mA (RCD A/EV, RDC-DD)		*	*
Insulation safety function	*		*
Insulation at L-N, L-PE, N-PE inputs	*		*
Auto Test Sequence		*	*
Test smooth dc sensitive RGD's (T'ype B/B+)		*	*
Earth resistance	*		*
Covering all basic installationtest functions	*	*	*
Bluetooth interface	*	*	*



Automotive Battery Tester



BT-120/130
Automotive Battery Tester

BT-130 battery tester adopts the most advanced conductivity test technology in the world. It can conveniently, quickly and accurately measure the actual cold start current capacity of vehicle starting battery, the health state of battery itself and the common faults of vehicle starting system and charging system, so as to help maintenance personnel find problems quickly and accurately, so as to realize the rapid maintenance of vehicle.

Battery Conductance and Electrical System Analyzer can be used to detect 6 volt-12 volt ordinary lead-acid batteries. It can display test results in seconds.

Features

	BT-120	BT-130
Test battery testing ranges from 100 to 2000 CCA	*	*
Detect bad cells	*	*
Test deep discharge battery	*	*
Protect against reverse polarity	*	*
Multiple battery rating systems: CCA, JIS, EN, DIN, SAE, IEC	*	*
Test ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and GEL battery etc.	*	*
Support multi-languages: Chinese, English		*
2.4”TFT color display, resolution 240(RGB) x 320 Pixels.		*
Upload the recorded test data to computer(windows) and print it out.		*

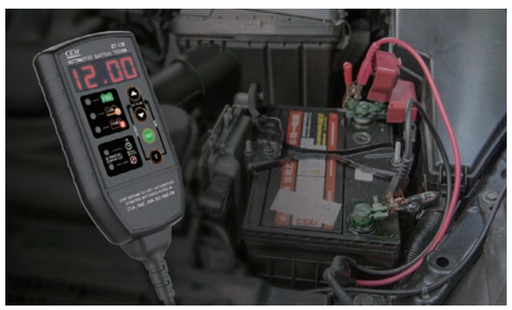
Specifications

Test voltage range	8 to 30V DC
Battery type	Ordinary lead-acid battery, AGM flat battery, AGM spiral battery, colloidal battery, EFB battery, etc.
Working temperature	0~50°C
Voice version	Chinese, English
Battery capacity range	30Ah~200Ah
Test method	Kelvin Four-terminal sensing
Battery test standard	CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE
Measurement functions	Battery starting capacity test, starting load test, operation load test and charging system test

Measure Standard	Measure Range	Measure Standard	Measure Range
CCA	100-2000	DIN	100-1400
BCI	100-2000	IEC	100-1400
CA	100-2000	EN	100-2000
MCA	100-2000	SAE	100-2000
JIS	26A17-245H52		

Size(HxWxD): 168mm x 78mm x 38mm Weight: 265g

Accessories: Gift box with carrying case.





Model BT-130

EMC
EN: 61326



Model BT-120

DT-1707A
High Precision Current Testers

The high-precision AC/DC clamp ammeter is a precision instrument for verifying AC/DC current, using internationally advanced fluxgate technology. Accuracy can reach up to 0.05%



EMC
EN: 61326



Model 1707A

Specifications

Function	Range	Accuracy
Current DC	0 to 1000A	≤0.04% ± 0.01%
Current AC	0 to 707A AC current bandwidth: 0 to10kHz)	≤0.05% ±0.01%
1.97” (50mm) Jaw opening		

Industrial medical and electrical testing equipment
Measure instantaneous current and voltage values in isolation and measure current in a contactless manner. The measurement range is from 0.1A to 1000A.



Energy equipment
Our integrated transducer integrates advanced AC and DC sensing technology and signal conditioning circuits (RMS, real value, threshold detection, etc.).
Output switch signal, relay form signal, electrically isolated standard signal, can be directly connected to the programmable controller or monitoring equipment.



High-speed EMU
Achieve high performance specifications (accuracy from 0.01% to 0.05%, short circuit response time from a few milliseconds to a few microseconds).
Wide temperature range, high insulation withstand voltage and electromagnetic compatibility design to meet different countries’ railway standards.



Electric vehicle
We have developed current transducers for electric vehicle related industries, which can be used for power management and motor drives in cars, buses and trucks. Our products contribute to energy saving and environmental protection. Through the current control of high energy consumption applications, our products strive to reduce energy consumption



AT-5 Engine Tachometer



EMC
EN: 61326



Model AT-5



The AT-5 tachometer can measure RPM of engine by bringing it close to plug cord of the engine. This tachometer has many measuring modes for various types of engines like 2 stroke (1 and 4 cylinders), 4 strokes(1, 6 and 8 cylincers). An antenna lead is supplied to use if needed.

- Measuring method count pulses
- RPM display interval 0.5sec
- Accuracy ±10 RPM

Specifications

Measurable Engine		Measurable RPM Range
Stroke	Cylinder	
2	1	100~20000
4	2	
4	3	100~13000
2	2	100~10000
4	4	
2	3	100~6500
4	6	
4	1	100~20000
4	5	100~7000
2	4	100~4800
4	8	

Size(HxWxD): 156mm x 42mm x 20mm
Weight: 77g
Accessories: Antena lead and hang strap, Gift box with carrying case.

DT-156H
Coating Thickness Tester

Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques

Features

- Non-magnetic coatings(e.g. paint, zinc)on steel
- Insulating coatings(e.g. paint)on no-ferrous metals
- No-ferrous metals coatings on insulating substrates
- Menu operation system
- Two working modes: DIRECT and GROUP mode
- One point calibration, two points calibration and basic calibration easily
- Memory for 1500 readings(30 GROUP readings)
- Delete single readings and all group readings easily
- Low battery, error indication
- USB interface for PC software
- 4 levels of battary indication
- Error indication
- Easily adapt to lighting conditions with 8 levels of backlight

EMC
EN: 61326



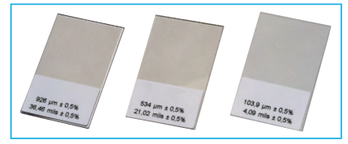


Model 156H

Specifications

Sensor probe	F	N
Working principle	magnetic induction	Eddy current principle
Measuring range	0~1350um	0~1350um
Guaranteed tolerance (of reading)	± (2.5%+2)um	± (2.5%+2)um
Repeatability	± (1%+1)um	± (1%+1)um
Low range Precision	0.1um	0.1um
Minimum curvature radius	1.5mm	3mm
Diameter of Minimum area	7mm	5mm
Basic critical thickness	0.5mm	0.3mm

Size(HxWxD): 113.5mm x 54mm x 27mm
Weight: 110g
Accessories: Two “AAA” batteries, USB cable, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.



Precision Standard



Calibration Iron



Calibration Aluminum

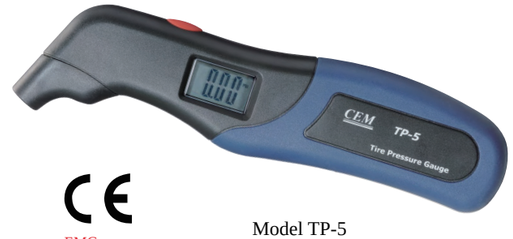
TP-5 Tire Pressure Gauge

Specifications

Range	5-100PSI
Accuracy	±(1%+0.5)PSI

Size(HxWxD): 156mm x 42mm x 20mm
Weight: 77g
Accessories: One CR 2032 button battery, clamshell





EMC
EN: 61326

Model TP-5

- White LED lighted tip helps you find the tire stem easily
- Much easier use than conventional air gauges
- Red pushbutton turns on/ off and units selected
- Measures tire pressures of 5 to 100 pounds per square inch (PSI)
- Press red pushbutton turns on, LCD display 0.00 PSI
- Take the tire gauge spiracle at the tire stem, then the tire gauge will memorize the maximal pressure value
- Press red pushbutton to select the different units, takes turns as PSI, Kpa, Bar
- Press red pushbutton 5s to turn off the tire gauge

AT-9666

Auto-ranging Automotive Digital Multimeters

EMC & LVD
EN: 61326
EN: 61010-1, EN: 61010-02-031



Model AT-9666

Automotive Digital Multimeter provides multi-functions:

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- Oversized high contrast 4000 counts LCD display with backlight
- 17 Functions including DCV, ACV, VFD, LoZ, DCA, ACA, Resistance, RPM (Tach), pulse width (mS), Dwell angle, Duty cycle, Frequency, Temperature (IR Temperature) (ºC/ºF), Capacitance, Continuity and Diode Check.
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold, Relative functions/ Auto Power Off
- Fused current inputs and Overload protection on all ranges.
- Measuring Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.

Specifications

Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.9%+3d)
Voltage AC	4V, 40V, 400V, 700V	±(1.5%+3d)
VFD	50.0 to 700V	±(4.0%+3d)
LoZ AC/DC Voltage	4V, 40V, 400V, 600V	±(3.0% + 30d)
Current DC	40mA, 400mA, 4A, 20A	±(1.5%+3d)
Current AC	40mA, 400mA, 4A, 20A	±(1.8%+5d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(1.0%+2d)
Capacitance	40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF	±(4.0%+5d)
RPM(Tach)	600 ~ 4000RPM;1000 ~ 12000RPM(x 10RPM)	±(2.0%+4d)
Dwell Angle	4, 5, 6, 8CYL	±(2.0%+4d)
Duty Cycle	0.1~99.9%	±(2.0%+2d)
Frequency	10MHz	±(0.1%+4d)
Temperature	-40ºC ~ 1000ºC/-40ºF ~ 1832ºF	±(3.0%)
IR Temperature	-30ºC ~ 550ºC/-22ºF ~ 1022ºF	±(2.0%)
Pulse Width	1.0~20mS	±(2.0%+20d)
Diode Check	Open circuit voltage 3.2V dc typical; Test current 1mA typical.	
Continuity Test	Threshold 50Ω, Continuity Beeper 2kHz	

Size(HxWxD): 182mm x 82mm x 55mm
Weight: 360g

Accessories: Test leads, type K temperature Probe, IR temperature probe (IR-82 optional), Inductive pick-up and 9V battery, Gift box with carrying case.

DT-9008/9008C/3116 Special Meter & Clamp Type Meter for Oil Field

Auto-ranging Automotive Digital Multimeter



Model 9008



Model 9008C

EMC & LVD
EN: 61326
EN: 61010-1, EN: 61010-02-031



Model 3116

9008/3116 are designed as special automotive digital multimeter and clamp type meter for oil field.

Specifications

Function	Range	Resolution	Basic Accuracy
Voltage DC	0V～700V	0.01V	±(0.8%rdg+5dgt)
Voltage AC	0V～700V	0.01V	±(0.8%rdg+5dgt)
Current AC	1A～300A	0.1A	±(2.8%rdg+5dgt)
Resistance	1ohm～10Mohm	0.1ohm	
Phase	0°～360°	1°	±3°
Duty Cycle	0.1 to 99.9%	0.1%	
Frequency	10Hz～400Hz	0.01Hz	±(2.0%rdg+3dgt)
Measure Phase condition	Voltage：50V～700V/ Current：±(2.8%rdg+5dgt)		
Well number	100number		
Data save	1000		
Duty Cycle	± (1.2% reading +2 digits)		
Clock	Year month date		
Display	TFT, 320（RGB）x240		
Measurement Rate	3 times per second		
Input impedance	About：10MΩ		

Specifications 9008C

Function	Range	Accuracy (% of reading)
AC Current (50/60Hz)	30.00AAC	± (2.8 % + 10 digits)
	300.0AAC	± (2.8 % + 5 digits)

Size(HxWxD): 170mm x 79mm x 50mm (9008), 197mm x 70mm x 40mm (3116)
150mm x 58mm x 35mm (9008C)
Weight: 188g (9008), 183g (3116), 205g (9008C)
Accessories: Test leads, Inductive pick-up, 9V battery and gift box with carrying case.

AT-9906DIS/9965

Auto-ranging Automotive Digital Multimeters

Automotive Digital Multimeter provides multi-functions:

Auto-ranging Automotive Digital Multimeter

- RPM(RPM 2 Stroke or 4 Stroke mode active) measurement for automotive engines with 4 to 8 Cylinders using the inductive Pick-up.
- Oversized high contrast LCD display with backlight.
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors and ignition
- Data Hold , Relative functions & auto power off.
- Fused current inputs and Overload protection on all ranges.

EN 61010-1 CAT III 1000V





Model AT-9906DIS

Features

	9906DIS	9965
Digital display counts	3200 with Analog Bargraph	4000 with Analog Bargraph
Auto ranging	*	*
1ms Peak hold, MAX/MIN hold		*
Overload protection on all ranges	*	*
Low battery indication	*	*
Inductive Pick-up	*	*

Specifications

	9906DIS	9965	
Function	Range	Range	Basic Accuracy
Voltage DC	320mV/3.2V/32V/320V/600V	400mV, 4V, 40V, 400V, 600V	±(0.5%+2d)
Voltage AC	3.2V, 32V, 320V, 600V	400mV, 4V, 40V, 400V, 600V	±(0.8%+4d)
Current DC	320uA,3200uA, 32mA, 320mA, 10A	400uA, 4000uA, 40mA, 400mA, 10A	±(1.2%+2d)
Current AC	320uA, 3200uA, 32mA,320mA, 10A	400uA, 4000uA, 40mA, 400mA, 10A	±(1.5%+4d)
Resistance	320Ω, 3.2kΩ, 32kΩ, 320kΩ, 3.2MΩ, 32MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM;600 ~ 12000RPM(x 10RPM)	600~4000RPM;600~12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	0.1~99.9%	±(1.5%+5d)
Frequency	320Hz/3200Hz/32kHz	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20ºC ~ 760ºC/-4ºF ~ 1400ºF	-20ºC ~ 760ºC/-4ºF ~ 1400ºF	±(3.0%+2d)
Capacitance		40nF, 400nF, 4uF, 40uF,400uF,4mF,40mF	±(3.0%+2d)
Pulse Width		0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 3V dc; Test current 0.3mA typical.		
Continuity Test	Threshold 35Ω, Continuity Beeper 2kHz		

Size(HxWxD): 170mm x 79mm x 50mm
Weight: 366g

Accessories: Test leads, type K temperature Probe, Inductive pick-up, 9V battery and gift box with carrying case.

EMC & LVD
EN: 61326
EN: 61010-1, EN: 61010-02-031

AT-9955 Automotive Digital Multimeter With IR Laser Thermometer

Automotive Digital Multimeter provides multi-functions:

Automotive Digital Multimeter With IR Laser Thermometer

IP67 Dust and water proof

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- Oversized high contrast 4000 counts LCD display with backlight
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature (IR Temperature) (ºC/ºF), Capacitance, Continuity and Diode Check.
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold, Relative functions/ Auto Power Off
- Fused current inputs and Overload protection on all ranges.
- Measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.

EN 61010-1 CAT III 1000V





Model AT-9955

Specifications

Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 700V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM;600 ~ 12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Frequency	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20ºC ~ 760ºC/-4ºF ~ 1400ºF	±(3.0%+2d)
IR Temperature	-20ºC ~ 550ºC/-4ºF ~ 1022ºF	±(3.0%+2d)
Capacitance	40nF, 400nF, 4uF, 40uF, 400uF,4mF,40mF	±(3.0%+2d)
Pulse Width	0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 3V dc; Test current 0.3mA typical.	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.kHz	

Size(HxWxD): 182mm x 82mm x 55mm
Weight: 360g

Accessories: Test leads, type K temperature Probe, IR temperature probe (IR-82 optional), Inductive pick-up and 9V battery, Gift box with carrying case.

AT-9950DIS/9950T/AT-950A/AT-950B

Automotive Multimeters

True RMS (AT-9950T)



EN 61010-1 CAT III 600V



Model AT-9950DIS

AT-9950DIS/9950T/AT-950A/950B are very versatile automotive meters and can be used for many different diagnostic works on car and truck. Many functions are offered for your choice.

- AT-9950DIS/9950T: RPM (RPM 2 Stroke or 4 Stroke mode active) measurements for automotive engines with the Inductive Pickup
- AT-950B: RPM measurement for automotive engines with the inductive Pickup
- AT-950A: RPM measurements for automotive engines wtih the test leads
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors and ignition and ignition

Features

	9950DIS/9950T	950A	950B
Digital display counts	3200 with Analog Bargraph	2000	2000
AC True RMS	9950T		
Auto ranging	*		
Manual ranging		*	*
Overload protection on all ranges	*	*	*
Data Hold	*		
Low battery indication	*	*	*
Inductive Pick-up	*		*

EMC & LVD
EN: 61326
EN: 61010-1,
EN: 61010-02-031



Model AT-950B



Model AT-950A

Specifications*

Function	Max. Range	Resolution	Basic Accuracy	9950DIS/9950T	950A	950B
Voltage DC	600V	0.1mV	±(0.5%+2d)		*	*
	1000V	0.1mV	±(0.5%+2d)	*		
Voltage AC	750V	1mV	±(1.0%+2d)	*		
Current DC	10A	0.1uA	±(1.5%+2d)	*	*	*
Current AC	10A	0.1uA	±(1.5%+2d)	*		
Resistance	32MΩ	0.1Ω	±(2.0%+3d)	32M	20M	20M
RPM (Tach)	12,000RPM	1RPM	±(2.0%+5d)	*	10,000RPM	*
Dwell Angle	2~10CYL	0.1°	±(1.2%+2d)	*	*	*
Frequency	32kHz	0.1Hz	±(1.2%+2d)	*		
Duty Cycle	0.1%~99.9%	0.1%	±(1.2%+2d)	*		
Temperature	760°C/1400°F	0.1°C/°F	±(3.0%+3d)	*		
Diode Test				*	*	*
Continuity Check				*	*	*

Size(HxWxD): AT-9950DIS/9950T : 189mm x 91mm x 31.5mm
AT-950A/AT-950B : 209mm x 43mm x 30mm
Weight: AT-9950DIS/9950T : 280g
AT-950A/AT-950B : 200g

Accessories:
9V Battery, Rubber holster and Inductive pick-up(except AT-950A)

DT-960CP

Autoranging True RMS Multimeter with EVSE-Current & Hz Measurements

DT-960CP is a True RMS compact digital multimeter with EVSE-Current & Hz Measurements, Double molded plastic housing and over sized high contrast 6000 counts LCD display.

Features

- 6000 Counts digital display
- True RMS measurement
- Safety design
- Data Hold/ MAX/MIN recording mode
- Flash light/ Backlight
- Auto Ranging & Auto Power Off
- Bluetooth interface with Meterbox pro software
- EVSE -Current (Sensitivity :Vrms>5V)

Specifications

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.0%
Current DC	10A	±1.0%
Current AC	10A	±2.0%
Resistance	60MΩ	±1.5%
Capacitance	6000μF	±3.0%
Frequency	10kHz	±1.0%
Duty Cycle	99.9%	±1.2%
EVSE -Current (Sensitivity :Vrms>5V)	6 to 80A	±(1.5%+2d)
Diode Check		
Continuity Test		

Size(HxWxD): 120mm x 67mm x 46mm **Weight:** 200g
Accessories: Test leads, 1.5V AAA x 2 batteries and clamshell.



Flexible clamp
Model DT-320BS

Model 960CP

Meterbox Pro

Available on the App Store
Get it on Google play



AT-205P/AT-9945/AT-9945T Automotive Digital Multimeters

Automotive Digital Multimeter provides multi-functions:

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up
- AT-9945T is True RMS Autoranging Automotive DMM
- Oversized high contrast 4000 counts LCD display with backlight
- 13 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature (°C/°F), Capacitance, Continuity and Diode Check
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold and Relative functions, Over-range indication, Auto Power Off
- Fused current inputs and Overload protection on all ranges
- AT-9945/9945T measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls

Specifications

Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 700V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM (Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Frequency	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
Capacitance	40nF, 400nF, 4uF, 40uF, 100uF	±(3.0%+2d)
Pulse Width (9945)	0.1~10mS	±(3.0%+5d)
Duty Cycle	Open circuit voltage 1.5V dc; Test current 0.3mA typical.	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.7KHz	

Size(HxWxD): AT-205P: 146mm x 66mm x 41.5mm AT-9945/9945T: 195mm x 92mm x 38mm
Weight: AT-205P: 200g; AT-9945/9945T: 380g
Accessories: Rubber holster, Test leads, type K temperature Probe, Inductive pick-up and 9V battery.

True RMS (AT-9945T)

Large LCD display

EN 61010-1 CAT III 600V



Model AT-205P



Model AT-9945

EMC & LVD
EN: 61326
EN: 61010-1,
EN: 61010-02-031

AT-9135

Automotive Circuit Multi-Function Tester with LCD display



EMC
EN: 61326

Model AT-9135

Automotive Circuit Multi-Function Tester is an equipment used to test the automotive electrical system within 12 to 24 volts.It can save the testing hours for the automotive electrical system. It is designed to testing the system without re-connection between the vehicle battery and the testing components.

Functions

Determine the polarity and circuit circumstance (short/open)
Activating the components with positive or negative current without jumper wire
Testing the continuity of the circuit
Digital LCD display with backlight
Locate missing cylinders
Measuring frequency of the high-tension ignition pulses and we could calculate the rotational speed of engine according to the measured frequency
Peak detection
Testing the voltage of the circuit and the voltage reading will be indicated on the LCD display within 1/10th of a volt

Size(HxWxD): 240mm x 78mm x 40mm
Weight:200g

CF-09 Automotive Current Short Tester

The automotive current short tester can test vehicle's short-circuit current range from 10 to 30 amp with CF-01/CF-01S adapters. LED indicate the circuit range. It is convenient to operate.

Features

Determine the circuit circumstance(short or open)
LED indication
Over-load audible warning
Manual and automatic test function
Measurement current range:10A,15A,20A, 25A, 30A.
Power charge by vehicle battery

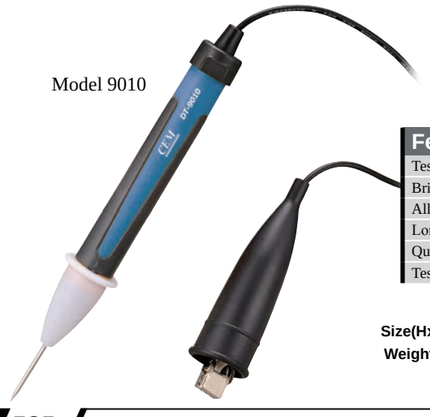
Size(HxWxD): 200mm x 78mm x 44mm
Weight:206g
Accessories: CF-01/CF-01S adapter, Gift box.



EMC
EN: 61326

Model CF-09

DT-9010 Automotive Circuit Voltage Tester



Model 9010

Features

Test common automotive circuits up to 12 volts
Bright 360 degree visual indication
Alligator clip connects to ground
Long flexible test lead
Quickly test automotive circuits for proper voltage
Tests auto wiring, fuses, battery source

Size(HxWxD):189mm x 26.5mm x 2.6mm
Weight: 60g



AT-9995/9995E

Professional Automotive DMM with USB Interface

AT-9995 is professional Automotive DMM with RS232 interface, AT-9995E is with wireless USB interface; It can be used for many different diagnostic works on car and truck. Many functions are offered for your choice.

Large LCD display

Wireless USB Interface (RF 433MHz) (AT-9995E)

Features

- Oversized high contrast 4000 counts with Bargraph backlight LCD Display
- RPM measurement for automotive engines with 1 to 12 Cylinders using the inductive pick-up
- Data Hold and Relative functions
- Max Hold and Min Hold
- Auto Power Off
- Fused current inputs and overload protection on all ranges

EN 61010-1 CAT III 1000V

EMC & LVD
EN: 61326
EN: 61010-1, EN: 61010-02-031



Specifications

Function	Max Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 750V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	±(2.5%+2d)
Dwell Angle	1CYL, 2CYL, 3CYL, 4CYL, 5CYL, 6CYL, 8CYL, 10CYL, 12CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Period	0.1~20mS	±(3.0%+5d)
Pulse Width	0.1~10mS	±(3.0%+5d)
Frequency	30kHz	±(2.0%+2d)
Temperature	-20ºC ~ 760ºC/-4ºF ~ 1400ºF	±(3.0%+2d)
Diode Check	Open circuit voltage 1.5V dc typical;	
	Test current 0.3mA typical	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.7kHz	



Size(HxWxD): 197mm x 88.4mm x 41.2mm
Weight: 635g

Accessories :
Rubber holster, Test leads, type K temperature Probe, software, RS-232 cable/USB interface, Pick-up, 9V battery and gift box with carrying case.





Model CF-06

Model CF-08

CE
EMC
EN: 61326







Features

- Large 3 1/2 LCD display with bar graph
- Peak hold and Data hold function (CF-08)
- 30 A measurement greater than the current alarm sounds will be issued (CF-08)
- DCA zero for accurate measurment
- Unit with Max/Mini-Blade plug

Specifications

Fuse Type	Resolution	Banana Plug	Measuring Range	Acuracy
CF-06: 30A/Max-Blade		100mA	30A/48V/DC/AC	0-30A ±2.0% reading
CF-08: 80A/Max-Blade		100mA	80A/48V/DC/AC	0-80A ±2.0% reading



Size(HxWxD): CF-06/08: 112mm x 45mm x 33mm Weight: 165g
Size(HxWxD): 165mm x 40mm x 33mm Weight: 200g
Accessories: Clamshell and 9V battery.

CF-01/01S/CFCL-01/01S Car Fuse Adapter & CF-02/02S/03/03S/04/04S Car Current Testers

Measuring adaptor for easy current detection and measurement of 200mA/20A/30A currents on blade-type be connected to any commercially available by a 4mm-banana plug/pin plug.



Model CF-01S



Model CFCL-01



Mini-Blade Type



Max-Blade Type



Model CF-02

CE
EMC
EN: 61326



Specifications

MODEL	Fuse Type	1999 Counts LCD Display	Resolution	Banana Plug	Measuring Range	Accuracy
CF-01	20A/ Max-Blade			*	20A/48VDC/AC-10sec.	±2.0% reading
CF-01S	20A/ Mini-Blade			*	20A/48VDC/AC-10sec.	±2.0% reading
CF-02	20A /Max-Blade	*	10mA		20A/48VDC-10sec.	±(2.0% reading + 2 digits)
CF-02S	20A/ Mini-Blade	*	10mA		20A/48VDC-10sec.	±(2.0% reading + 2 digits)
CF-03	1A/Max-Blade	*	0.1mA		200mA/48VDC	±(1.5% reading + 2 digits)
CF-03S	1A/Mini-Blade	*	0.1mA		200mA/48VDC	±(1.5% reading + 2 digits)
CF-04	30A/Max-Blade	*	100mA		30A/48VDC-10sec.	±(2.0% reading + 2 digits)
CF-04S	30A/Mini-Blade	*	100mA		30A/48VDC-10sec.	±(2.0% reading + 2 digits)
Maximum measuring voltage: 48V max.						
Cable length: approx. 75cm						

Size(HxWxD): CF-01/01S: 84mm x 30mm x 10mm **Weight:** 77g
Size(HxWxD): CF-02/02S/03/03S/04/04S: 86mm x 37mm x 28.5mm **Weight:** 68g
Accessories: 12V battery (CF-02/02S/03/03S/04/04S).

RT-05/100 Automotive Relay Tester

Quickly and accurately test 3 terminal electro-mechanical relays for many domestic and imported automobiles. The Automotive relay tester will interrogate and identify an unknown relay terminal configuration then self configure its own internal circuitry to perform all required test functions automatically. The Automotive relay tester can be used to perform the following tests: coil resistance, surge supression device (resistor or diode), open/closed contact integrity, contact cyclic testing for intermittent failure detection, loaded contact continuity, relay contacts stuck open or closed and time to contact closure and opening. Unit automatically indicates test results with a series on red, green and yellow performance lights.



CE
EMC
EN: 61326

Model RT-05



Model RT-100

Specifications

		RT-05	RT-100
Coil Resistance	20 to 500 ohms (includes any parallel transient supression resistors)	*	*
Coil Test Voltage	9 Volts	*	12V&24V
Contact Resistance Threshold	200 Milliohms	*	*

Size(HxWxD): 128mm x 68mm x 30mm Weight: 185g
Accessories: One 9V battery, clamshell

AT-05A Automotive Tachometer

Professional digital tachometer measures accurate engine RPM with Inductive Pick-up



AT-05A

CE
EMC
EN: 61326

AT-05B Automotive Tachometer



RPM measurement for automotive engines with 1 to 8 Cylinders.

CE
EMC
EN: 61326

BT-12 Digital Automotive Battery Analyzer

BT-12



3 colors LED indicate different conditions

CE
EMC
EN: 61326



AT-05B

AT-953



RT-01 Refractometer for Anti-freeze & Battery Fluid testing

CE
EMC
EN: 61326



- Range: Ethylene glycol 1.15-1.30 specific gravity
- Minimum Scale Division: 5ºC
- Automatic Temperature
- Compensation range: 10 to 30ºC



DT-5352/5502S/5354/5504/4064E/4104E/4204E

Digital Storage Oscilloscope

Including 7 measurement functions in one: oscilloscope, waveform generator, multimeter, FFT spectrum analyzer, frequency counter, protocol analysis, amplitude-frequency curve analysis

- 350 MHz / 500 MHz oscilloscope bandwidth, 5 GSa/s sample rate
- Standard 400 Mpts memory depth
- 600,000 wfms/s refresh rate, easy to capture exceptional and low probability events
- Advanced function calculation function
- Standard 50MHz single-channel arbitrary waveform generator
- The oscilloscope captures the waveform, the waveform generator generates the waveform, help engineers to further analyze the circuit
- Waveform cloning function, quickly generate captured waveforms
- A variety of triggers and bus decodes
- Optional multimeter and multimeter data logger function
- Standard Bode plot for loop test analysis
- Multi-interface design: USB Host & Device, LAN, VGA; supports standard SCPI communication, USB Device supports USB TMC



Model 5504

Specifications

Model	5352	5502S	5354	5504	4064E	4104E	4204E
Bandwidth	350MHz	500MHz	350MHz	500MHz	60MHz	100MHz	200MHz
Channel	2	2	4	4	4	4	4
Sample Rate	5GS/s				1GS/s		
Horizontal Scale (s/div)	500ps/div-1000s/div, step by 1-2-5				2ns/div		1ns/div
Display	10.4inch LCD touch screen				8inch LCD touch screen		
Record length	400M				40M		
Waveform Refresh Rate	max 600,000 wfms/s				max 45,000		max 75,000
Vertical Sensitivit	1MΩ:1mV/div~10V/div; 50Q:1mV/div~1V/div						
Vertical Resolution(A/D)	8bits						
Input impedance	1MΩ ±2%, in parallel with 15pF±5pF; 50Ω±2%						
Input coupling	DC, AC, Ground						
Trigger type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, 12C, SPl, RS232, CAN						
Decoding Type (optional)	RS232, I^2C, SPI, CAN						
Automatic measurement	Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width, -Pulse Width, +Duty Cycle, -Duty Cycle, Delay A→B ⨍, Delay A→B ⇂, Cycle RMS, Cursor RMS, Screen Duty, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase A→B ⇂, Phase A→B ⨍, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.						
Waveform math	+, -, *, /, FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)						
Communication interface	USB Host, USB Device; Trig Out (Pass/Fail); LAN port; VGA port; EXT Trigln						
Printer compatibility	PictBridge						

Arb Waveform Generator Specifications

Max Frequency Output	50MHz
Sample Rate	250MS/s
Channel	1 channel
Vertical Resolution	14bits
Amplitude Range	2mVpp - 5Vpp (≤50MHz); 2mVpp - 20Vpp (≤50MHz)
Waveform Length	16k
Output Waveformsa	Sine, Square, Pulse, Ramp, Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, Noise, and others, total 46 built-in waveforms, and user-defined arbitrary waveform

Multimeter Specifications (optional)

Full Scale	4½ digits	Auto Range	√
Measure	Voltage, Current, Capacitance, Resistance, Frequency, Duty cycle, Diode test		
Capacitance	2nF - 20mF: ±(4%±10digit)		
Voltage	DCV: 20mV, 200mV: ±(0.5%±10digit), 2V, 20V, 200V: ±(0.3%±5digit), 1000V:±(0.5%±5digit) ACV: 200mV, 2V, 20V, 200V: ±(0.8%±10digit) 750V: ±(1%±10digit) frequency: 40Hz-1000Hz		
Current	DCA: 20A: ±(2%±10digit) ; ACA: 20A: ±(2.5%±10digit)		
Impedance	200Ω~2MΩ: ±(0.8%±10digit),20MΩ: ±(1%±10digit) 100MΩ: ±(5%±10digit)		

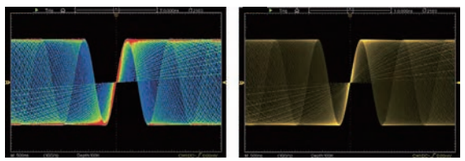
Size(HxWxD): 422mm x 226mm x 135mm **Weight:** 5kg

Accessories: Power Cord, CD Rom, Quick Guide, USB Cable, Probe, Probe Adjust, Q9 Cable, Multimeter Lead, Current Ext Module.



Model 4204E

1. Multi-level grayscale, and color temperature display



2. Built-in 6-digit high-precision frequency counter, support the statistics on the max. and min. values.



3. Standard 50MHz single-channel waveform generator, 250 MSa/s sample rate, 16k arbitrary waveform length, built-in 64 pre-defined waveforms.



4. Standard FFT, real-time operation of waveform data Support 4 FFT windows: Rectangular,Hamming, Hanning and Black-harris



DT-4072/4102/4122/4074/4104

2CH / 4CH Tablet Digital Storage Oscilloscope



Model 4072

- Oscilloscope + Multimeter(2CH type)
- Max 120MHz Bandwidth，1GS/s sample rate
- 14-bit high resolution ADC
- 40M record length; 45,000 wfms/s waveform refresh rate
- Low back ground noise
- 8-inch 800 x 600 high resolution LCD, multi-touch screen, more user-friendly operation experience
- SCPI and LabVIEW supported
- Multi- trigger, and bus decoding function
- Multi-interface integration - USB host, USB device, LAN, Wi-Fi (optional)

14-bit hardware ADC, high measurement accuracy
Equipped with 14-bit high-resolution hardware ADC, the precision is 64 times against other oscilloscope on market.
You can observe the waveform details more clearly, and measure the changes of small voltage signals more accurately.



Magnifier view of 8 bits sampling Magnifier view of 14 bits sampling

Size(HxWxD): 270mm x 191mm x 48mm **Weight:** 1.7kg
Accessories: Power Cord, Adapter, Probe, CD Rom, Quick Guide, USB Cable, Probe Adjust, Stand holder, BNC-SAM, Multimeter Lead, Current Ext Module, Bag (optional).

Specifications

Model	4072	4102	4122	4074	4014
Channel	2			4	
Sample Rate	1GS/s				
Vertical Resolution(A/D)	8bits				
Horizontal Scale (s/div)	2ns/div - 1000s/div, step by 1-2-5				
Input impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF				
Max Input Voltage	1MΩ ≤ 300Vrms;				
Probe Attenuation Factor	0.001X - 1000X, step by 1-2-5				
Sample Rate / Relay Time Accuracy	±10 ppm max (Ta = +25)				
Input Coupling	DC, AC, GND				
Vertical Sensitivity	1mV/div - 10V/div (at input)				
Trigger type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I^2C, SPI, RS232/UART, and CAN (optional)				
Bus Decoding (optional)	I^2C, SPI, RS232/UART, CAN				
Trigger Mode	Auto, Normal, and Single				
Automatic measurement	Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase A→B ↑, Phase A→B↓, Preshoot, Rise Time, Fall Time,+Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B ↑, Delay A→B↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edges Count, Area, Cycle Area, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF				
Waveform math	+, −, ×, ÷, FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, Digital Filter				
Waveform Storage	100 waveforms				
Frequency Counter	available				
Battery	7.4V, 8000mAh,s 5 hours operation				

DT-2015P/2036P/2075P Spectrum Analyzer

Built-in more than 200 mainstream EMC test standards and regulations templates. The user selects the corresponding template, and the software automatically sets the spectrum analyzer and records the test data. The data and regulations can be compared on the same screen. Users can also customize regulations for comparative analysis.

- Frequency range 9kHz - 7.5GHz
- -162 dBm Displayed Average Noise Level (DANL)
- Phase noise -106 dBc/Hz @1GHz and offset at 10 kHz
- Total amplitude accuracy <0.7 dB
- 1 Hz minimum resolution bandwidth (RBW)
- EMI pre-compliance test kit, optional EMC test software
- Waterfall plot graphic, modulation signal quality analysis, audio demodulation, ect. multiple general and extended test functions.
- tandard Pass/Fail on-site test and alert function
- Adopt all-digital intermediate frequency technology
- Multiple interfaces: USB Host, USB Device, LAN, earphone interface, HDMI
- 10.4-inch multi-touch screen



Model 2036P

Specifications

Model	2015P (TG)	2036P (TG)	2075P (TG)
Frequency Range	9 kHz - 1.5 GHz	9 kHz - 3.6 GHz	9 kHz - 7.5 GHz
Frequency Resolution	1Hz		
Aging rate	<1 ppm/Year		
Phase Noise (fc=1GHz)	<-106 dBc/Hz @10 kHz offset		
Resolution Bandwidth (-3dB) (RBW)	1 Hz to 1 MHz (1-10 steps by sequence)		
Video Bandwidth(-3dB)(VBW)	10 Hz to 3 MHz		
Display Average Noise Level (DANL)	(Preamp on, Input Attenuation= 0 dB, Sample Detector, Trace Average ≥20, 20°C to 30°C, Input Impedance=50 Ω, RBW normalizes to 1Hz)		
100 kHz - 1 MHz	-135 dBm (Typical)		
1 MHz - 500 MHz	-162 dBm (Typical)		
500 MHz - 1.5 GHz	-158 dBm (Typical)		
1.5 GHz - 3.6 GHz	-	-158 dBm (Typical)	-158 dBm (Typical)
3.6 GHz - 6 GHz	-	-	-154 dBm (Typical)
6 GHz - 7.5 GHz	-	-	-149 dBm (Typical)
Detectors	Positive-peak, negative-peak, normal, sample, RMS avg, voltage avg, quasi-peak		
Trace functions	Clear write, Max Hold, Min Hold, View, Blank, Average		
level unit	dBm, dBuW, dBpW, dBmV, dBuV, W, V		
Tracking generator (-TG Model)	100 kHz - 1.5 GHz (Tracking generator)	100 kHz - 3.6 GHz (Tracking generator) 35 MHz - 3.6 GHz (Signal generator)	100 kHz - 7.5 GHz (Tracking generator)
Output power level range	-30 dBm - 0 dBm	-40 dBm - 0 dBm	
Output power level resolution	1 dB		
Communication Port	USB HOST, USB DEVICE, LAN, earphone port, VGA, REF		

Size(HxWxD): 340mm x 177mm x 90mm **Weight:** 2.6kg
Accessories: Power Cord, CD Rom, Quick Guide, USB Cable, N-BNC

DT-5352S

Digital Storage Oscilloscope

Including 7 measurement functions in one: oscilloscope, waveform generator, multimeter, FFT spectrum analyzer, frequency counter, protocol analysis, amplitude-frequency curve analysis.

- 350 MHz / 500 MHz oscilloscope bandwidth, 5 GSa/s sample rate
- Standard 400 Mpts memory depth
- 600,000 wfms/s refresh rate, easy to capture exceptional and low probability events
- Advanced function calculation function
- Standard 50MHz single-channel arbitrary waveform generator
- The oscilloscope captures the waveform, the waveform generator generates the waveform, help engineers to further analyze the circuit
- Waveform cloning function, quickly generate captured waveforms
- A variety of triggers and bus decodes
- Optional multimeter and multimeter data logger function
- Standard Bode plot for loop test analysis
- Multi-interface design: USB Host & Device, LAN, VGA; supports standard SCPI communication, USB Device supports USB TMC



Model 5352S

Specifications

Bandwidth	350MHz
Channel	2
Sample Rate	5GS/s
Horizontal Scale (s/div)	500ps/div-1000s/div, step by 1-2-5
Display	10.4inch LCD touch screen
Record length	400M
Waveform Refresh Rate	max 600,000 wfms/s
Vertical Sensitivit	1MΩ:1mV/div~10V/div; 50Q:1mV/div~1V/div
Vertical Resolution(A/D)	8bits
Input impedance	1MΩ ±2%, in parallel with 15pF±5pF; 50Ω±2%
Input coupling	DC, AC, Ground
Trigger type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, 12C, SPl, RS232, CAN
Decoding Type (optional)	RS232, I^2C, SPI, CAN
Automatic measurement	Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width, -Pulse Width, +Duty Cycle, -Duty Cycle, Delay A→B ⇂, Delay A→B ↿, Cycle RMS, Cursor RMS, Screen Duty, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase A→B ↿, Phase A→B ⇂, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.
Waveform math	+, -, *, /, FFT, FFTrms, lntg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)
Communication interface	USB Host, USB Device; Trig Out (Pass/Fail); LAN port; VGA port; EXT Trigln
Printer compatibility	PictBridge

Arb Waveform Generator Specifications

Max Frequency Output	50MHz
Sample Rate	250MS/s
Channel	1 channel
Vertical Resolution	14bits
Amplitude Range	2mVpp - 5Vpp (≤50MHz); 2mVpp - 20Vpp (≤50MHz)
Waveform Length	16k
Output Waveformsa	Sine, Square, Pulse, Ramp, Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, Noise, and others, total 46 built-in waveforms, and user-defined arbitrary waveform

Size(HxWxD): 340mm x 177mm x 90mm **Weight:** 2.6kg
Accessories: Power Cord, CD Rom, Quick Guide, USB Cable, N-BNC

DT-4051 Bench-type Digital Multimeter

Features

- 4 inch 480 x 320 pixels high resolution LCD
- 5 1/2 digits and 4 1/2 digits resolutions
- Reading rates up to 150 readings/s
- True RMS AC voltage / current measurement
- Dual line display supported
- The change trend analysis accessible via special chart mode
- SCPI supported - remote control, and data-sharing possible via LAN, USB, RS232 port, and WiFi (optional)
- Multi- IO interface: USB Device / Host, RS232, LAN, and ext.



Model 4051

Specifications

Function	Range	Accuracy
DC Voltage	200mV to 1000V	0.015 ±0.004
Ture RMS AC Voltage	200mV to 750V	0.2 +0.05
DC Current	200.000μA to 10.0000A	0.055 +0.005
Ture RMS DC Current	20.0000mA to 10.0000A	0.50 +0.10
Resistance	200.000Ω	0.030 +0.005
	2.00000kΩ, 20.0000kΩ, 200.000kΩ	0.020 +0.003
	2.00000MΩ	0.040 +0.004
	10.0000MΩ	0.250 +0.003
	100.000MΩ	1.75 +0.004
Diode Test	2.0000V	0.05 ±0.01
Continuity	2000Ω	0.05 ±0.01
Frequency period	20Hz to 1MHz (200mV to 750V)	0.01 +0.003
	220Hz to 10kHZ (200mA to 10A)	0.01 +0.003

Test Current

Function	Range	Test Current	Accuracy 1 Year ±(% of reading + % of range)
Capacitance	2.000nF	200nA	3 +1.0
	20.00nF	200nA	1 +0.5
	200.0nF	2μA	1 +0.5
	2.000μF	10μA	1 +0.5
	200.0μF	100μA	1 +0.5
	10000μF	1mA	2 +0.5
Temperature	temperature sensors under 2 categories supported -thermocouple (ITS-90 conversion between B /E/J/ K / N / R / S /T type), and thermal resistance(RTD sensor conversion between Pt100 and Pt385 type)		

Size(HxWxD): 235 x 110 x 295mm **Weight:** 3kg
Accessories: Power Cord, Quick Guide, USB Cable, Fuse, Test Leade, Alligator Clip

Healthcare Screening Solution



AM-384
Nucleic Acid Extraction and Testing All-In-One Machine

CEM Nucleic acid extraction and testing all-in-one machine (AM-384) is an automated work platform integrating sample QR code scanning, sampling, extraction, amplification, fluorescence detection and so on, realizing sample in, result out! The machine has a built-in 24-well extractor and a 384-amplified fluorescence detector, which can meet the needs of multiple target sites or multiple pathogens detection in the same sample.

High throughput
384-well fluorescence detection module, compatible with 96-wells.

Automated
Sample in, result out.

Simple operation
One-button start-up and automated data analysis.

Contamination Protection
HEPA filtration system, UV sterilization.

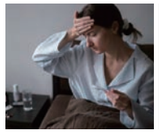


Model AM-384

Specifications

Whole Machine	Specification(LxWxH)	1260mmx704mmx1030mm
Sampling Module	Automated Scanning	equipped
	Automation Switching Lid	equipped
	Pipette Sampling Range	5-1000uL
	Sampling accuracy	<5%(Min volume)
Extraction Module	Processing volume	100μL~300μL
	Sample amount	24
	Heating Temperature	30°C~80°C
	Method of use	Magnetic bead method
Amplified & Fluorescence Detection Module	Amplification amount	384 well
	Amplification Method	Isothermal amplification or QPCR
	Fluorescence channel	1-6
	Fluorescence Detection Accuracy	CV<3%
	Temperature Accuracy	±0.3°C
	Pipette Channel	24
	Pipette range	2-300uL
	Pipetting Accuracy	CV<2%@10% range
	Sample Volume	5-30μL

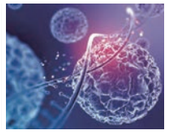
Application Scenario



Pathogen testing of clinical samples for unknown fever



Pre-operative and postoperative pathogen multiplex testing



Tumour multi-targeted loci testing

FIA-80 Immunofluorescence Analyser

Features

- Two detection modes, meeting different needs.
- Quick mode: Result in 10 seconds.
- Normal mode: Result in 3-15 minutes.
- Built-in printer, print results directly.
- Built-in QR code scanner to record sample number directly.
- Time-resolved immunofluorescence-based methodology for more accurate results.
- Adopts Android system, the operation software is simple and clear.

Specifications

Intra-Channel CV	1% (series standard card)	**Display**	7 inches Capacitive Touch
Differential CV between stations	3% (series standard card)	**Operating System**	Android4.4
Quick Mode	Support	**Methodology**	Time Resolution
Standard Mode	Support	**Excitation light**	365nm
Auto Print	Support	**Emitted light**	610nm
LIS interface	Support	**Number of channels**	1
Data storage	50,000 entries	**Card insertion method**	Manual
History	Support	**Printer**	Thermal printer
Data export	USB Flash Drive & LIS	**Language**	Chinese/English, can add others
Power Requirements	110-240VAC 50/60Hz	**Calibration reading**	code card
Operating Environment	Temperature: 5°C-40°C Humidity: 10%-80% Air pressure: 86.0-106.0kPa	**Applicable card type**	Single card triple 100x16x4.8mm
Data Interface	usb, ethernet, wifi, Bluetooth	**Card Barcode**	Two-dimensional code

Size(HxWxD): 142mm x 190mm x 245mm **Weight:** 1.5kg



Model FIA-80

e-dx04

Immuno/ Molecular/ Biochemistry Automatic Integrated Analyzer



Model e-dx04



CEM e-dx04 immuno/molecular/biochemical fully automated integrated analyzer is a compatible immunoassay,nucleic acid molecular amplification detection and biochemical detection POCT (point-of-care testing) instrument platform, which uses microfluidic technology, semiconductor technology and electrochemical detection technology to achieve a variety of pathogens, Biomarker qualitative and quantitative detection. The analyzer is easy to operate, the consumables are fully enclosed with no cross-contamination.and it can realize the sample in and the result out.

Designed for POCT

- No need for professional training, all pre-test preparations can be completed within one minute
- Consumables are fully enclosed, no cross contamination, no routine maintenance,unique electrochemical control and detection technology
- No need for refrigerated storage of consumables
- Android system with Internet of Things (loT) platform
- Includes external docking station, supports up to 96 throughput, flexible to support all kinds of use scenarios

Reagent Module List

Model	e-Idx Immunoassay	e-Bdx Biochemical assay	e-Mdx Molecular extraction/detection
Principle	Immuno &Electrochemical	Enzymatic & Electrochemical	PCR with electrochemistry
Linearity	r ≥0.99	r ≥0.99	r>0.99
Precision	CV ≤5%	CV ≤ 5%	LOD=1copy
Storage condition	2-30°C	2-30°C	2-30°C
Detection time	20 minutes	3 minutes	30 minutes
Reagent list	e-Idx CRP/SAA/PCT	e-Bdx Cholesterol/ Triglycerides/LDL	e-Mdx FluA/B/MP/Cov/ Adv

Size(HxWxD): 342mm x 260mm x 263mm
Weight: 2kg

TQ-96 Automatic Nucleicacid Extractor



Model TQ-96

Reagents and consumables

1.Virus Sampling Tube

High safety: medical material, good sealing, good stability, to prevent leakage, to ensure biosafety Various choices: suitable for nasal and pharyngeal swabs, containing inactivation preservation solution. Convenient operation: independent disposable package, no need for refrigeration, can be transported at room temperature.

2.Nucleic acid extraction reagent

Nucleic acid extraction reagent is extracted by magnetic bead method, which has a wider application field, and it can be efficiently extracted and purified from various kinds of whole blood, serum, plasma, swab, puncture fluid, urine, alveolar lavage, many kinds of animal and plant samples, bacillus, and other complex samples, so as to obtain high-purity and high-quality nucleic acid.

Automatic Nucleic Acid Extractor is an integrated system for fully automatic nucleic acid extraction and purification. The system uses the principle of nucleic acid extraction by magnetic bead method, the magnetic beads and nucleic acid molecules are specifically recognised and efficiently combined, and the adsorption, transfer and release of the magnetic beads by magnetic rods are used to realise the transfer of the magnetic beads/sample, and complete the operation of nucleic acid extraction and purification.



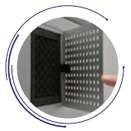
Graphical operation interface



High extraction efficiency



High frequency vibration



Negative pressure HEPA, UV disinfection

Specifications

Working Flux	Simultaneous processing of 16~96 samples
Extraction method	Magnetic bead extraction
Extraction efficiency	≥95%
CV between extraction well	≤5%
Cross-contamination rate	≤1%
PID algorithm temperature control	Temperature rise speed ≥5°C/sec
Operation interface	8-inch touch screen, graphical operation interface, easy to learn
Operation time	15-30 minutes/time
Bio-safety	Totally enclosed design, built-in UV sterilisation and high efficiency filtration of HEPA device, to ensure biological safety
High Reliability	Unique high-speed movement structure, multi-directional programme design,to ensure high-speed and reliable operation of the equipment
Power down memory	Automatic recording of the current state, power-on intelligent recovery to continue testing
Database	SQLITE database, support real-time information query, etc.
Operating system	Embedded Linux
Reagent Matching	Match the mainstream reagents on the market
Weight	55kg
Volume	465mmx476mmx463 mm
Recommended Use Period	5 years

FZ-80

Real-Time PCR System

FZ-80 is small, lightweight, flexible and portable. It has a sensitive, fast and stable optical system. Precise temperature control, including hot cover function, to avoid aerosol pollution. The Android APP operates flexibly to support the program settings complete quickly. The equipment is compatible with most testing reagents on the market. Expandable WIFI function, test report printing function.

Specifications

Capacity	8, 0.2ml single tube / 8-row tube, transparent tube
Channels	Standard configuration: 2 channels: FAM , VIC Can expand ROX, CY5
Reaction volume	Recommend 10-80uL
Touch screen	Yes
Thermal technology	Peltier
Average heating-up rate	50°C to 90°C, ≥1.5°C/s
Maximum heating-up rate	50°C to 90°C, ≥2.5°C/s
Average cooling rate	90°C to 50°C, ≥1.5°C/s
Maximum cooling rate	90°C to 50°C, ≥2.0°C/s
Module control accuracy	≤0.5°C
Temperature accuracy	Absolute value of difference between measured value and set temperature ≤0.5°C
Temperature uniformity	±1°C
Sample Repeatability	CV<1%
linearity	r≥0.980
Excitation light/ Detection device	LED/ PD
Hot cover temperature	30-110°C
Extension interface	USB, WiFi
operating system	Android

Size(HxWxD): 270mm x 190mm x 123mm **Weight:** 4kg
Accessories: USB cable, Gift box.



Model FZ-80

Features

- High brightness narrow-band LED light source, stable operation and long service life;
- Fast reading portable system, high precision;
- Precise temperature control and hot cover function to avoid man-made pollution;
- App operates flexibly and supports customization and shortcuts;
- The equipment is open and compatible with most testing reagents on the market;

TQ-16 Nucleic acid extractor

It is mainly used for the extraction and purification of nucleic acids from biological samples. Through the mixing of liquids, the collection, release and transfer of magnetic beads, the nucleic acid extraction and purification can be realized automatically. The device has active heating and cooling functions, which can extract 32 samples at the same time, realizing high-throughput, fast and automated extraction of nucleic acids. This equipment can be equipped with different types of nucleic acid extraction kits according to needs, to extract and purify nucleic acids from blood, plasma, saliva, oral swabs, viruses, animal and plant tissues, bacteria, microorganisms and other samples.

Features

Simple and intelligent operation, with app touch screen
With LED lighting, which can observe the operation status of the instrument in real time
Small size and convenient handling
UV disinfection function to reduce the pollution of samples between different batches
Open design, program free editing
The software has complete functions and is suitable for all kinds of magnetic bead reagents

Specifications

Sample Flux	1~16
Treatment volume	20~1000μL
Consumables	Common Magnetic rod sleeve, 96 deep hole plate
Principle / working mode	Magnetic bead method, magnetic rod type / up-down mixing
Purification pore difference	CV≤3%
Magnetic bead recovery	> 95%
Lysis temperature	Room temperature ~ 120 °C
Elution temperature	Room temperature ~ 120 °C
Oscillatory mixing	The mixed mode of different requirements can be edited
Operation interface	7-inch touch screen
Program management	Create, edit, save as, delete, etc
Instrument extension interface	USB, WiFi
Lighting system	Yes
Purification and disinfection	Fan exhaust, UV disinfection



Model TQ-16



Size(HxWxD): 320mm x 220mm x 273mm **Weight:** 6kg
Accessories: USB cable, Gift box.

Real-Time PCR System



FZ-100 is a real-time PCR instrument of CEM, which is mainly used in nucleic acid detection. FZ-100 is small, easy to operate, flexible, and equipped with 4-channel fluorescence channels; it can adapt to most nucleic acid reagents on the market, and can accurately detect a variety of pathogens and gene targets, with a wide range of application scenarios.

- Flexible temperature control and fast detection
- 4-channel multiple fluorescence detection, 16 samples can be detected at a time
- Open and compatible, suitable for a variety of reagents, widely used
- Ergonomics, touch screen tilt design, easy to operate and read the results
- Integrated design, equipped with 8-inch touch control screen, stand-alone operation, no additional computer configuration
- Configure WiFi function to send and share test reports

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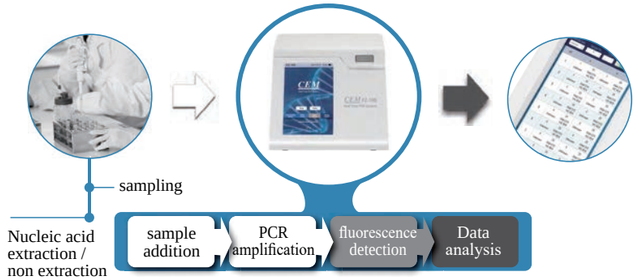
Testing process

■ PCR process ■ PCR analysis





Portable nucleic acid detection system





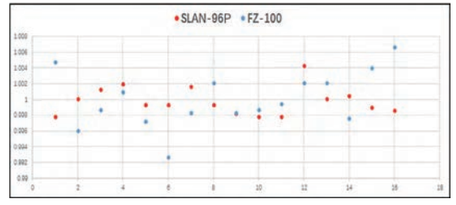
Model FZ-100

Specifications

Project	Index
Sample capacity	2*8 holes, 0.2ml single tube / 8 row tube, transparent tube
Sample volume	10~80uL
Touch screen	yes
Maximum rate of temperature increase	4.44°C/S
Maximun cooling rate	3.26°C/S
Heating temperature range	4~100°C
Temperature accuracy	±0.2°C@60°C,±0.3°C@95°C
Temperature homogeneity	±0.2°C
Fluorescent channel	Channel 1 FAM / Channel 2 VIC / Channel 1 ROX / Channel 1 CY5
Analysis method	CT value analysis, absolute quantitative analysis
Size(mm)	250*285*200
Power output	15V/13.4A, input 100-240VAC
Heating Lid	30~110°C
Sensitivity	Single copy gene can be detected
Sample linearity	Correlation coefficient R>0.999
Sample linear range	10 orders of magnitude
Consistency of test results	CV<1%
WIFI	yes
Interface	USB2.0
Operating system	Android
Weight	5kg
Test results	The fastest 30 minutes(depending on the condition of the supporting reagents)

Size(HxWxD): 285mm x 258mm x 200mm
Weight: 5kg
Accessories: USB cable, Gift box.

FZ-100 VS SLAN-96P ▼



Source of variance	Among groups	Inside group	Total
SS	6.07615E-07	0.000208415	0.000209022
df	1	28	29
MS	6.07615E-07	7.44339E-06	
F	0.081631541		
P-value	0.777201531		
F crit	4.195971819		

Using the sample test, there was no significant difference between FZ-100 and SLAN-96P, and the test results were reliable and consistent.

FZ-960
Real-Time PCR System

FZ-960 Real-Time PCR System is suitable for life science research, clinical diagnosis, epidemiological monitoring, food safety and others of molecular diagnostics.The instrument adopts a new fiber optic transmission system, which can complete the excitation and acquisition of fluorescence signal of 96 wells within 1 second, meanwhile, the instrument adopts powerful intelligent and precise temperature control technology, these make the optical detection module more sensitive, more stable and faster response.



Model FZ-960

Features

- **Highly sensitive and stable optical system**
  Adopting 96×2 independent fiber optic conduction design, dual-channel independent transmission of excitation and emission light, combined with long-life LED, significantly enhance the optical detection sensitivity and stability, eliminate fluorescence channel crosstalk.
- **Ultra-high speed detection performance**
  The whole 96-well fluorescence signal excitation and acquisition can be completed within 1 second, which greatly shortens the experimental cycle and is especially suitable for high-throughput detection.
- **Intelligent and precise temperature control technology**
  Innovative configuration of 6 semiconductor Peltier temperature control modules, with efficient heat dissipation system , the maximum temperature rise and fall rate is 4℃/s, and support for high-resolution melting curve (HRM) analysis.
- **Compact Intelligent Platform**
  Integrated with Windows 11 and multi-touch screen, It is reduced to realize the convenient installation of "ready-to-use" to meet the needs of various laboratory space. Data can be transferred to the cloud platform for intelligent analysis and real-time results.

Application Scenario



life science research



clinical diagnosis



Epidemic surveillance



Food safety

Specifications

Reaction Volume	10-80μL
Compatible Consumables	0.2mL single tube/8-row PCR tube/96-well PCR plate
Maximum Ramp-Up Rate	4℃/S
Heating Temperature Range	4-100℃
Temperature Accuracy	±0.38℃
Module Temperature Accuracy	0.08℃
Number of Fluorescent Channels	6 (2 customized)
Excitation Filter Setting	Channel 1:470nm ±15nm; Channel 2:530nm ±10nm;Channel 3:570nm±10nm; Channel 4:630nm±10nm; Channel 5 & 6: customization.
Detection Filter Setting	Channel 1:520nm±10nm; Channel 2:565nm±10nm; Channel 3:612nm±10nm; Channel 4:665nm±10nm; Channel 5 & 6: customization.
Support detection of fluorescent dyes or probes	Channel 1:FAM/SYBRGreen/EvaGreen/LCGreen/Fluorescein; Channel 2:VIC/HEX/TET/Cy3/J0E/Alexa555; Channel 3:ROX/Cy3.5/TexasRed; Channel 4:Cy5/LCRed640; Channel 5 & 6: customization.
Analyzing method	Quantitative and qualitative analysis
HRM analysis	Support
Hot cap temperature	30-110℃
Detection sensitivity	1 copy
Weight	14.9kg
Size	307.4(L)×454.4(W)×215.7(H)mm
Touch Screen	Support
WIFI	Support
Interface	USB / VGA/RJ45
Operating System	Win11
Operating Temperature	15-30℃
Storage Temperature	-20-55℃
Relative Humidity	≤85%

Size(LxWxH): 307mm x 454mm x 216mm
Weight: 14.9kg

CV-200
Immunochromatography AI Reader

CV-200 Immunochromatography Reader is capable of quickly and accurately interpreting colloidal gold reagent antigen and antibody results in seconds, is available with different magnetic adapters to accommodate a variety of test formats, such as single-cartridge, multi-cartridge and cup tests, and can be easily customised.



Model CV-200

Features

- Rapid reading of colloidal gold test strips by visual recognitio
- Detailed reading results can be viewed
- Save the test records and support historical records query
- Support test record export and analysis
- Support data uploading to the cloud service management platform for data analysis and processing
- Support a variety of project testing, can edit the project information in the cloud service management platform, and synchronized to the terminal
- Support the automatic identification of QR code to obtain the test project information

Specifications

Colors	16.7M TFT	**Screen Size**	5.0"
Battery Capacity	5000mAh	**Input Voltage (DC)**	5V/9V
Camera	500W	**Input Current**	2A (max)
WIFI	2.4G(802.11 b/g/n)		
Size	97*189*86.7mm		

Specification of recognisable test cards

Single card	L71mm×W21mm×H10mm
Twin Card	L71mm×W33mm×H10mm
Triple Card	L75mm×W41mm×H6.5mm
Quadruple Card & Pentaplus Card	L75mm×W57mm×H6.5mm

COV-2200/2201/2202 COVID-19 Antigen Rapid Test

COVID-19 Antigen Rapid test

is a lateral flow immunoassay with an integrated swab, intended for the qualitative detection of SARS-CoV-2 mucleocapsid protein antigen in anterior nasal (nares) swab samples.
Self-Test results in 15 minutes.
There are four kinds of serving package: 1set, 2sets, 5sets and 25sets for your choice.

Kit Contents

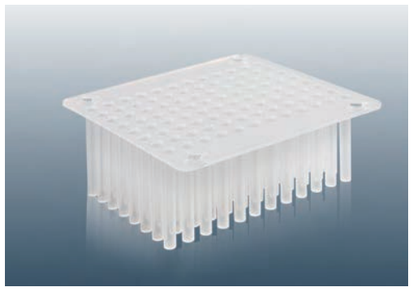
1. COVID-19 Test Card(s) with foil pouch
2. Extraction Buffer Tube(s), pre-filled or empty with sealed solution
3. Disposable Nasal Swab(s)
4. Product Manuals
5. Certificate of Conformity



PCR instrument 96 well tip comb magnetic sleeve

Features

- Made of polypropylene (PP) for greater safety.
- 12 x 8 arrangement, used to extract free DNA/RNA
- Can be sealed with an adhesive film, cold sealed or used with autoclaved deep-well plate covers.
- The thickness of the bottom and side walls of the plate is uniform, and the upper part of the orifice plate is flat and uniform, which is convenient for sealing and the hole size is consistent.
- Thin wall thickness, high magnetic bead extraction efficiency
- Good verticality to avoid residual magnetic beads in the tube sleeve
- High temperature conduction, uniform wall thickness, uniform temperature
- Clean environment, no dus



Size(HxWxD): 102mm x 102mm x 42mm
Weight: 15g
Accessories: Gift box.

18 High-risk Human Papillomavirus(HPV)Genotyping Real Time PCR Kit (Fluorescent PCR Melting Curve Method)



Features

- 1 Tube: 1tube for 1 sample detection.
- 18 Genotypes: Detected HPv Genotypes: (Designed in accordance with WHO/ARC/NMPA HPV classification guidelines)High-Risk Types: HPV16, 18, 31, 33,35, 39, 45,51,52, 56, 58, 59, 68
- Intermediate-Risk Types: HPV26, 53,66,73,82 4 Channel: Only use 4 fluorescent channel,including Fam,Vic,Rox,Cy5,compatible with widely used real-timePCR instruments(with melting curve analysis function)
- Accurate: High accuracy and sensitivity with all necessary controls
- Target region: Various regions in the viral genome including E6/E7
- TAT: 1.5 hour.

Specifications		
	CEM Kit	Other kit
HPV genotyping	18 High-risk	HPV16+18, or All(Multiple Tube)
Tube No.	ltube/sample	4-6tubes/sample
Sample additions No.	1	4-6
Cost	Less	more

Simple Steps

Sample Preparation
DNA Extraction

PCR Setup
Add 5uL sample and 20uL master mix to tube

Run PCR
50 cycles @ 95°C/52°C/75°C

Melting Curve
45-80°C gradient analysis

Auto-Report
Generate PDF with genotype calls

AI Handheld Electronic Colposcope
4K UHD Handheld colposcope with Real-Time AI Analysis

· Smart Imaging · Precise Diagnosis · Ultimate Portability



Bluetooth

20x Optical Zoom
12x Digital Zoom

300g
Ultra-Light weight

5.5” HD
Touch screen

AI-Assisted
CIN Grading

Bluetooth/iFi
Telemedicine

4K UHD Video
(3840x2160
@29.97fps)

Features

- **Advanced Imaging System**
  -20x Optical Zoom + 12x Digital Zoom (Total 240x Magnification)
  -8.5MP CMOs Sensor |4K UHD Video (3840x2160@29.97fps)
- **Adaptive Imaging Technology**
  -Day/Night Mode | I Y: 57.46 mm m | Fog Penetration
  -Wide Dyamic Range (WDR) : Clear imaging in low-light conditions
  -Highlight Suppression : Reduce glare for precise vascular pattern observation
- **AI-Powered Diagnosis**
  -Real-Time Abnormality Detection : Highlight suspicious areas with smart annotation.
  -CIN Grading Support : Assist clinicians in cervical intraepithelial neoplasia classification

Specifications	
Display	5.5”HD Touchscreen(1920x1080)
Camera	8.5MP CMOS Sensor,20xOptical Zoom+12x Digital Zoom
Video Output	4K UHD (3840x2160)
Image Formats	2160P/29.97,2160P/25,2160P/23.98,1080P/59.94,1080P/50,etc.(12 formats total
Function Features	Day/Night Mode, lmage Stabilization, Fog Penetration, WDR, Highlight Suppression
Special Effects	Vertical/Horizontal Flip, Black & White Mode
System	Android OS
Software	lmage Capture, Storage,Al Diagnosis, Report Printing
Connectivity	Bluetooth 5.0.WiFi
Power Supply	DC12V

Size(HxWxD): 50.0mm x 60.0mm x 93.9mm
Weight: 300g

The CEM ECG Blood Pressure Monitor is a home health monitoring device that integrates ECG monitoring and blood pressure measurement functions. This two-in-one device simultaneously measures blood pressure and electrocardiogram, including systolic pressure, diastolic pressure, pulse, supraventricular premature beats, ventricular premature beats, paired ventricular premature beats, triplet ventricular premature beats, supraventricular tachycardia, paired ventricular premature beats, dual ventricular premature beats, sinus rhythm, triplet supraventricular premature beats, dual supraventricular beats, atrial flutter, sinus rhythm + ectopic rhythm, ventricular tachycardia, sinus tachycardia, ectopic rhythm, sinus bradycardia, atrial fibrillation, and other indicators. Coupled with AI-assisted diagnostic software, it can effectively provide early warnings for various cardiovascular diseases.

Features

- Blood Pressure + ECG 2-in-1, composite indicators combined
- CEMMedSenseAI auxiliary diagnostic software provides early warnings for various cardiovascular diseases
- CEMhealth APP for health management, interfacing with large A models to generate professional health advice
- Convolutional neural network deep learning combined with CEM anti-interference algorithms for precise measurement of ECG/blood pressure
- 360°smart cuff wear self-test, false action prompt
- Offline and online dual mode, storing up to 9999 sets of data

CEM Health App

X AI Large Model

- CEM Smart Home Medical Ecology
- CEM MedSenseAl aided diagnostic software
- CEM health APP connects with AI large model

Specifications	
Measurement method	Oscillographic method/deep learning
Display	LCD segment code screen
Measuring range	0-299mmHg (0kPa-399.9kPa)
Accuracy	±3mmHg (± 0.4 Pa)
Battery	1200mA Li-ion battery (3.7V)
Automatic shutdown	2 minutes
Data transmission	Bluetooth
Memory	9999 group

Size(HxWxD): 165mm x 90mm x90mm
Weight:

Bluetooth



Model BP-6801

Portable 6-lead ECG recorder is a high-precision medical equipment based on wireless transmission technology, designed for real-time monitoring of patients' ECG signals, suitable for hospitals, homes, sports rehabilitation and other scenarios, breaking through the space limitations of the traditional wired devices to provide convenient and accurate remote monitoring services. With AI-assisted diagnosis software, it can effectively warn various heart diseases such as myocardial infarction, coronary heart disease, electrolyte imbalance, etc.

Features

- 6-lead ECG, multi-latitude indicators with CEMMedSenseAl auxiliary diagnostic software for early warning of various cardiovascular diseases
- CEM health APP health management, docking AI large model to generate professional health advice.
- Convolutional neural network deep learning with CEM anti-interference algorithm, intelligent identification of 31 types of ECG abnormalities, accuracy rate of more than 99%.
- Weighing only 30g, measuring on-the-go, ECG data can be measured in 30s.
- Maximum 9999 sets of stored data

CEM Health App

X AI Large Model

- CEM Smart Home Medical Ecology
- CEMMedSenseAl aided diagnostic software
- CEMhealth APP connects with AI large model

Bluetooth

Specifications	
Lead Configuration	6-lead
Power Supply	120mA Li-ion battery (3.7V)
Heart Rate Range	30-250BPM
Measurement Accuracy	±2 BPM (within 30-100 BPM range)
Operating Conditions	Temperature: 5-45°C Humidity: <95% RH (non-condensing) Atmospheric pressure: 70kPa-106kPa
ECG Recording Duration	30s/15min
Data Transmission	Bluetooth
Stored Data	9999 group

Size(HxWxD): 92mm x 32mm x 8.2mm
Weight: 30g



Model ECG-600

Single/Dual-level Non-invasive Ventilator

Provide comfortable bilevel treatment experience for patients with sleep apnea

CE 0197 FC



The newly launched single-level, dual-level, and Mini series of non-invasive ventilators are specifically designed for individuals suffering from respiratory function impairments. They excel in addressing conditions such as sleep apnea and COPD (chronic obstructive pulmonary disease), delivering stable and reliable support whether for home-based treatment or portable use.

Features

- Diverse Modes: Multiple operating modes to cater to varying respiratory requirements.
- Precise Pressure Control: Boasts a pressure adjustment precision of 0.5cmH_2O, with support for delayed pressure elevation.
- Rich Functions: Comes equipped with automatic air leakage compensation, a 6-level adjustable humidification channel, and more.
- Quiet Operation: Operates at a noise level of ≤30dB(A), with some models achieving ≤28dB(A).
- APP Data Management: Enables long-term data tracking and evaluation of treatment effectiveness.

Specifications

	HX-620	HX-680	HX-693
Working Modes	CPAP/APAP	CPAP/APAP/S/Auto S	CPAP/APAP/S/Auto S/T/ST/VGPS
Maximum Working Pressure	20cmH_2O	25cmH_2O	
Display	4.3-inch touch screen		
Adjustable Functions	Delayed pressure rise, Expiratory pressure reduction, Air leakage compensation		
Humidification Adjustment	6-level adjustment		
Heating Tube	Optional		
APP Data Management	Usage report/Treatment effect/Real-time data		
Operating Noise	28dB		
Power Supply	DC24 power adapter		
Dimensions	265×118×135mm (L×W×H)		
Single-level non-invasive ventilator	Dual-level non-invasive ventilator		

Specifications

	HX-663	HX-668	HX-660
Working Modes	CPAP/APAP	CPAP/APAP/S/Auto S	CPAP/APAP/Auto S/T/ST
Maximum Working Pressure	20cmH_2O	25cmH_2O	
Display	3.5-inch TFT screen		
Adjustable Functions	Delayed pressure rise, Expiratory pressure reduction, Air leakage compensation		
Humidification Adjustment	6-level adjustment		
Heating Tube	Optional		
APP Data Management	Usage report/Treatment effect/Real-time data		
Operating Noise	30dB		
Power Supply	DC24 power adapter		
Dimensions	270×156×148mm (L×W×H)		
Single-level non-invasive ventilator	Dual-level non-invasive ventilator		

Specifications

	HX-610
Working Modes	CPAP
Maximum Working Pressure	20cmH_2O
Adjustable Functions	Delayed pressure rise, Expiratory pressure reduction, Air leakage compensation
APP Data Management	Usage report/Treatment effect/Real-time data
Operating Noise	＜30dB
Power Supply	DC24 power adapter
Dimensions	135×82×48mm (L×W×H)
Single-level non-invasive ventilator	Single-level non-invasive ventilator

Applications



It is convenient to be used at home and the hotels for emergency.



Model HX-620



Model HX-663



Model HX-610

BP-106A/108/108H/108B/120

Electronic Blood Pressure Monitor

BP-106A/108 home blood pressure monitor is widely used and recommended by doctors and pharmacists for clinically-accurate home monitoring. The functions are included: Irregular heartbeat detection which captures your readings and any irregular heartbeats and body movement during measurement; Memory storage stores 99 total blood pressure readings.



Model BP-106A





Blood pressure category	Systolic mmHg (top number)		Diastolic mmHg
Normal	Less than 120	AND	Less than 80
Elevated	120 to 129	AND	Less than 80
High blood pressure Hypertension atage 1	130 to 139	OR	80 to 89
High blood pressure Hypertension atage 2	140 or higher	OR	90 or higher
Hypertensive emergency See your doctor right away	Higher than 180	AND/OR	Higher than 120

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

BP-108/108H/108B

Electronic Blood Pressure Monitors

Features

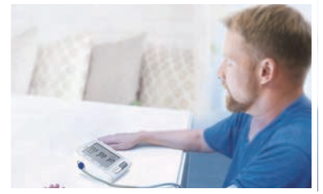
- Talking function
- 30 memory locations
- The date and time are displayed and stored together with every blood pressure value
- If the battery icon is displayed, the batteries are discharged and the device cannot be used until new batteries are installed

Specifications

Model		BP-108	BP-108H	BP-108B
Display	Digital LCD display	*	*	*
Measurement	Oscillometric method	*	*	*
Pressure Display Range	0-255mmHg	*	*	*
Measurement Range	Pressure: 0 to 295 mmHg	*	*	*
Pulse rate	40 to 199 beats/min	*	*	*
Accuracy	Pressure: Within ±3 mmHg	*	*	*
	Pulse rate: Within ±5% of reading	*	*	*
Power Supply	4×1.5V “AA” Batteries or USB DC 5V	*	3.7V Li-battery	
Operating Environment	5~40°C /15%~85%RH	*	*	*
Storage Environment	-20~55°C/15%~85%RH	*	*	*
Measurable Arm Circumference	220mm~320mm	*	*	*
Safety Classification	Internal power: Type B	*	*	*
Inflation	Automatic inflation with pumping	*	*	*
Air Release	Automatic rapid air release	*	*	*
Pressure Detection	Semiconductor pressure sensor	*	*	*
Pulse Detection		*	*	*
Measurement While Inflating		*	*	*
4G/Bluetooth connection			4G	Ble



Model BP-108



Size(HxWxD): 145mm x 100mm x 70mm **Weight:** 451g
Accessories: 4x1.5V “AA” batteries, Carrying case and Gift box.

BP-106A/120 Electronic Blood Pressure Monitors

Specifications

Display	Digital LCD display
Measurement	Oscillometric method
Pressure Display Range	0-255mmHg
Measurement Range	Pressure: 0 to 295 mmHg
Pulse rate	40 to 199 beats/min
Accuracy	Pressure: Within ±5 mmHg
	Pulse rate: Within ±5% of reading
Power Supply	4×1.5V “AA” Batteries
Operating Environment	5~40°C /15%~85%RH
Storage Environment	-20~55°C/10%~93%RH
Measurable Arm Circumference	220mm~320mm
Safety Classification	Internal power: Type B
Inflation	Automatic inflation with pumping
Air Release	Automatic rapid air release
Pressure Detection	Electrostatic capacity pressure sensor
Pulse Detection	Electrostatic capacity pressure sensor

Size(HxWxD): 141mm x 103mm x 75mm
Weight: 451g
Accessories: Carrying case and Gift box.

BP-106A Arm cuff is suitable for arm from 220 to 320mm circumference, the blood pressure monitor readjust itself to identify the necessary pumping pressure, if the pumping pressure set in the factory is not sufficient, the device identifies this and continues pumping.

Features

- Automatic voice broadcasting
- Intelligent pressurization
- 99 sets of stored data
- 3.7V lithium battery
- Pulse abnormality prompt
- Supports 4G connectivity
- The date and time are displayed and stored together with every blood pressure value





Model BP-106A

BP-80/80B/80H Electronic Blood Pressure Monitors



Model BP-80B

Specifications

Systolic/mmHg	Diastolic/mmHg		
<105	<60	Hypotonic	Consult your doctor
105-140	60-90	Normal	Self-monitoring is sufficient
140-160	90-95	Borderline hypertonic	Consult your doctor
>160	95-105	Mildly hypertonic	Consult your doctor
>160	105-115	Hypertonic,medium severity	Get medical attention
>180	>115	Severely hypertonic	Get medical attention immediately

Size(HxWxD): 66mm x 65mm x 30mm(80); 73mm x 68mm x 28mm(80B);
85mm x 85mm x 28mm(80H)
Weight: 99g(80), 107g(80B),133g (80H)

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

BP-2681/2881/120H

Smart Blood Pressure MonitorMedical-Grade Accuracy+ AI Health Management





Model BP-120H

X AI Large Model

CEM Health APP

- CEM Home Medical Ecology
- CEM health APP connects with AI large model

Features

- Self-developed neural network algorithm
- Double measurement by Kirschner Phonetic + Oscillometric method, more accurate results
- Access to AI model, online voice interaction APP health data analysis, remote transmission
- Misoperation tips
- Linear air release valve, more stable results
- Ergonomic design
- Large LCD segment code screen + eye protection backlighting

Specifications

Display Mode	LCD Segment Code, Reverse Display Screen
Measurement Principle	Oscillographic Method + Korotkoff Sound Method
Measurement Range	Pressure: 0 - 295mmHg (0 - 39.2kPa); Pulse: 40 - 199 beats/min
Measurement Accuracy	Pressure: ±3mmHg (±0.4kPa); Pulse: Within ±5% of the Reading
Communication Mode	4G + SIM Card
Power Supply	DC3.7V Lithium Battery, 2600mAh
Arm Circumference	22 - 36cm
Voice Broadcast	On/Off (Switchable)
Automatic Shutdown	Automatically Shuts Down After 3 Minutes of No Operation
Working Environment	Temperature: 5 - 40°C; Humidity: 15%RH - 80%RH Without Condensation; Air Pressure: 80 - 105kPa
Storage Environment	Temperature: -20 - 55°C; Humidity: 15%RH - 80%RH Without Condensation; Air Pressure: 80 - 105kPa

Size(HxWxD): 125*123*132mm
Weight: 536g
Accessories: Carrying case and Gift box.

DT-206

Intelligent Electronic Thermometer Patch



The intelligent electronic thermometer patch, specially designed for infants, is an ideal choice for working parents to remotely guard babies' health. Fits the baby's armpit without discomfort, and its waterproof design suits daily scenarios like bathing and playing.
Equipped with a high-precision sensor chip, it achieves accurate temperature measurement of ±0.1℃, automatically collects data every 2 minutes and displays in real time. Connected to mobile APP via Bluetooth, data is synchronized to the cloud—parents can check the temperature change curve and grasp fluctuation trends anytime when out.

Features

LCD display
Fast Sampling time
Easy to use
Safety and Anti-swallow
Particular efficient for taking the temperature
Bluetooth Interface and Android/iOS APP software

Specifications

Range(Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998	32 to 35.9ºC/89.6 to 96.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Response time	0.5 second

Size(HxWxD): 105mm x 60mm x 20mm **Weight:** 115g
Accessories: Clamshell



Model 206/208

Wearable Design

Intelligent Continuous Temperature Measurement

Universal for Adults / Children

APP Real-Time Monitoring

Remote Viewing

High / Low Temperature Alarm





CE 0197 FC

Oxygen saturation is the percentage of oxyhemoglobin (HbO2) that is combined with oxygen against all combinable hemoglobin (Hb). It is an important physiological parameter involved in respiration and circulation. The oxygen saturation of arterial blood in a normal human body is 98%. Oxygen saturation is an important indicator of the oxygen condition in the human body. In general, the normal values of oxygen saturation shall not be lower than 94%. If the measured value of oxygen saturation is lower than 94%, an insufficient supply of oxygen is considered.

The pulse rate is the number of pulse beats per minute. Normally, the pulse rate is consistent with the heart rate. In general, the pulse rate of every people is 60 to 90 beats per minute.

Size(HxWxD): 70mm x 32mm x 38mm **Weight:** 32g
Accessories: 2x1.5V AAA batteries, Clamshell

Specifications

Display mode	OLED display	
Power supply	DC 3V 2*1.5VLR03(AAA)	
Auto power off	Switch off after 15 seconds finger out	
Sensor Specifications		
Red light	660nm	
Infrared light	905nm	
Oxygen saturation（SpO2）	Measurement Range	35%--100%
	Measurement precision	±2% , (70%~100%) <70%，No requirement
	Resolution	1%
Pulse rate （PRbpm）	Measurement Range	25bpm-250bpm
	Measurement precision	±2bpm
	Resolution	1bpm
Perfusion index (PI%)	Measurement Range	0-50%
	Measurement precision	0.1% (0%~1%), 1% (1%~20%) >20%，No requirement
	Resolution	0.1%
Alarm		
Oxygen saturation（SpO2）	50%~100% Adjustable，Default：Upper limit 100%，Lower limit 94%	
Pulse rate（PRbpm）	25bpm~250bpm, Default：Upper limit 130bpm, Lower limit 50bpm	
Alarm mode	The value flash and beeping	
Service life	2 years	



Model GM-68



GM-68 diabetes testing kit is equipped with advanced technologies, bring more accurate and reliable results and better experience for your blood sugar control; Your blood sugar and uric acid conrtrol.

- Get results in 5 seconds. Portable. Travel Size
- Our state-of-the-art monitoring system includes a single touch strip ejection, so you no longer have to worry about manually removing the soiled strip.
- MEMORY – Keep a survey of your health using the memory storage capable of saving up to 99 readings

Specifications

	Blood Glucose	Uric Acid
Measuring Range	1.1mmol/L -- 33.3mmol/L	180umol/L -- 1190 umol/L
Accuracy	<4.2 mmol/L not exceeding ±0.83 mmol/L ≥4.2 mmol/L not exceeding ±15%	≤300 umol/L, not exceeding ±60 umol/L >300 umol/L not exceeding ±20%
Repeatability	<5.5 mmol/L SD <0.42mmol/L ≥5.5 mmol/L CV <7.5%	≤300 umol/L SD <20umol/L >300 umol/L CV <7.5%
Sample volume	1μL	1.6μL
Blood volume ratio	25-65%	35%-55%
Measuring time	8 seconds	10 seconds
Target blood	Fresh capillary whole blood and venous whole blood	
Memory groups	99 groups	

Size(HxWxD): 90mm x 50mm x 18mm **Weight:** 50g
Accessories: CR2032 battery, Clamshell

Micro blood sampling
Quick check
Automatically eject paper
Five-level electrical technology
Accurate measurement

DT-8806H/8806U/8816H

Non-Contact Clinical Forehead InfraRed Thermometer

8806U/8816H Clinical Forehead Infrared Thermometers ensure accurate and stable body temperature readings, which is particularly efficient for taking the temperature of newborn babies and children. From a distance of around 5cm, all you have to do is pointing it towards the forehead to read the temperature shown on the LCD screen.

Safety Conformance

- ISO80601-2-56 and ASTM E1965-98
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1)
- EN60601-1-11: Medical electrical equipment-Part 1-11:General requirements for basic safety and essential performance-Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment(IEC60601-1-11)



NB-ioT

Model 8816H

Features

	8806H	8806U	8816H
Measures skin temperature from 89.6°F to 108.5°F (32.0°C to 42.5°C) without contact	*	*	*
Accurate to ±0.5°F (±0.3°C) with 0.1°F/°C resolution	*	*	*
Adjustable alarm alerts user visually and audibly when temperature exceeds programmed limit	*	*	*
Optimal measurement distance of 1.9 to 5.9 in. (5 to 15 cm)	*	*	*
Surface temperature mode measures from 32.0°F to 140°F (0°C to 60.0°C)	*	*	*
Fast response (0.5 seconds)	*	*	*
Simply press the trigger and read temperature on the large backlit LCD display	*	*	*
Memory stores for easy recall	32 readings	32 readings	
Backlight LCD display	*	*	*
Complete with 2 AA batteries and pouch	*		*
USB interface		*	
NB-ioT			*

Specifications

Range(Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998	32 to 35.9ºC/93.2 to 89.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	5-15CM
Response time	0.5 second

Size(HxWxD): 146mm x 88mm x 43mm **Weight:** 205g
Accessories: 2x1.5V"AA"batteries (8816H), Carrying case and Gift box.



Model 8816H (NB-IoT Version)



Model 8806U (USB Version)



DT-8806/8806B/8806S

Non-Contact Clinical Forehead InfraRed Thermometers

Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

Safety Conformance

- ISO80601-2-56 and ASTM E1965-98
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1)
- EN60601-1-11: Medical electrical equipment-Part 1-11:General requirements for basic safety and essential performance-Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment(IEC60601-1-11)

Features

	8806	8806B	8806S
Housing colour	Purple	Purple	Purple
Precise non-contact forehead temperature measurements	*	*	*
Selectable ºC or ºF & forehead heat detection	*	*	*
Selectable Body and Surface temperature	*	*	*
Set alarm value and sound alarm	*	*	*
Memorization of the last 32 measurements	*	*	*
Automatic Data Hold & Auto power off	*	*	*
Automatic selection range	*	*	*
Display Resolution 0.1ºC(0.1ºF)	*	*	*
Backlight LCD display	*	*	*
Bluetooth & Cloud server		*	
Measuring distance	0.5-2.5cm	1-10cm	1-10cm

Specifications

Range(Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998	32 to 35.9ºC/93.2 to 89.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	1-10cm
Response time	<1 second

Size(HxWxD): 131mm x 82mm x 35mm **Weight:** 130g
Accessories: 2x1.5V"AAA"batteries, Carrying case and Gift box.



Model 8806

Slient Mode | Dual Mode | Low Battery Indication | Clear LCD Display with backlight







Bluetooth

Model 8806B/ 8806S

DT-8808S/8808H
Non-Contact Forehead InfraRed Thermometers

8808S/8808H adopts imported high-precision sensor, 1 second fast frontal temperature measurement, one-button fast switching, can be used for human body temperature and objects Temperature dual mode measurement, built-in temperature compensation to eliminate interference, the measurement accuracy in 35~42℃ full temperature segment can be up to ±0.3℃.



Model 8808S

Features

Precise non-contact forehead temperature measurements
Selectable ℃ or ℉ & forehead heat detection
Selectable Body and Surface temperature
Set alarm value and sound alarm
Memorization of the last 32 measurements
Automatic Data Hold & Auto power off
Automatic selection range
Display Resolution 0.1℃(0.1℉)
Backlight LCD display

Specifications

Range(Body mode)	35.0℃ to 42℃/95.0℉ to 107.6℉
Range(Surface mode)	0℃ to 100℃/32℉ to 212℉
Resolution	0.3℃/0.6℉
Basic accuracy ASTM E1965-1998	32 to 35.9℃/89.6 to 96.6℉(±0.3℃/±0.5℉)
	36 to 39℃/96.8 to 96.6 to 102.2℉(±0.2℃/±0.4℉)
	39 to 42.5℃/102.2 to 108.5℉(±0.3℃/±0.5℉)
Measuring distance	1~5cm (8808S), 5~15cm (8808H)
Response time	0.5 second

Size(HxWxD): 30mm x 140mm x 50mm **Weight:** 120g
Accessories: Two 1.5V "AAA" batteries, Carrying case and Gift box.

DT-8807S/8807B Non-Contact Clinical Forehead InfraRed Thermometers

8807S/8807B adopts imported high-precision sensor, 1 second fast frontal temperature measurement, one-button fast switching, can be used for human body temperature and objects Temperature dual mode measurement, built-in temperature compensation to eliminate interference, the measurement accuracy in 35~42℃ full temperature segment can be up to ±0.2℃.

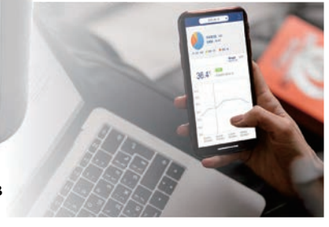
Safety Conformance

- ISO80601-2-56 and ASTM E1965-98
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1)
- EN60601-1-11: Medical electrical equipment-Part 1-11:General requirements for basic safety and essential performance-Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment(IEC60601-1-11)





Bluetooth



Model 8807B

Features

	8807S	8807B
Precise non-contact forehead temperature measurements	*	*
Selectable ℃ or ℉ & forehead heat detection	*	*
Selectable Body and Surface temperature	*	*
Set alarm value and sound alarm	*	*
Memorization of the last 10 measurements	*	*
Automatic Data Hold & Auto power off	*	*
Display Resolution 0.1℃(0.1℉)	*	*
Backlight LCD display	*	*
Bluetooth interface		*

Specifications

Range(Body mode)	32.0℃ to 42.5℃/89.6℉ to 108.5℉
Range(Surface mode)	0℃ to 60℃/32℉ to 140℉
Resolution	0.1℃/0.1℉
Basic accuracy ASTM E1965-1998	32 to 35.9℃/89.6 to 96.6℉(±0.3℃/±0.5℉)
	36 to 39℃/96.8 to 96.6 to 102.2℉(±0.2℃/±0.4℉)
	39 to 42.5℃/102.2 to 108.5℉(±0.3℃/±0.5℉)
Measuring distance	1~5cm
Response time	0.5 second

Size(HxWxD): 35mm x 142mm x 50mm **Weight:** 125g
Accessories: Two 1.5V "AAA" batteries, Carrying case and Gift box.

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Leyu1/Leyu2/Leyu3
Non-Contact Clinical Forehead InfraRed Thermometer

Leyu1/Leyu2/Leyu3 are pocket Clinical Forehead Infrared Thermometers, which ensure accurate and stable body temperature readings and transfer the measuring datas to the smart phone by bluetooth. Leyu1 is easy to use and safety with waterproof, and is particularly efficient for taking the temperature of newborn babies and children. From a distance of around 5cm, just point it towards to read the temperature shown on the smartphone by App.
Leyu2 shows temperature readings by white LED display.
Leyu3 shows temperature readings by LCD display.



Features

	Leyu1	leyu2	leyu2S	leyu3	leyu3S
White LED display		*	*		
LCD display				*	*
Fast Sampling time	*	*	*	*	*
Easy to use	*	*	*	*	*
Safety and Anti-swallow	*	*	*	*	*
Waterproof	*	*	*		
Non-contact measurement	*	*	*	*	*
Particular efficient for taking the temperature	*	*	*	*	*
Bluetooth Interface and Android/iOS APP software	*	*		*	

Specifications

APP software	Yes
LED indication for temperature	Yes
Range/Accuracy	Body: 35 ~ 42℃(95℉ ~107.6℉) / ±0.3℃(0.5℉)
	Surface: 0 ~ 60℃ (32℉~140℉) / ±1℃(1.8℉)
Accuracy	±0.2℃(0.4℉)
Response time	1s
Spectral response	8 to 14um
Measuring Distance	1 to 4cm
LED indication	Red/Green/Yellow/Blue
Operating temp	10 to 40℃(50 to 104℉)
Storage temp.	–10 to 60℃(14 to 140℉)
Relative humidity	10% to 90%RH operating, <80%RH storage
Power supply	CR2032



Leyu-808/808S Non-Contact Thermometers with Voice Reading

Features

	Leyu-808	Leyu-808S
Forehead temperature	*	*
LCD display	*	*
Easy to use & fast sampling time	*	*
Safety and Anti-swallow	*	*
Non-contact measurement without touching the body	*	*
Particularly efficient for taking the temperature	*	
Bluetooth Interface and Andriod/iOS APP software	*	

Specifications

Range/Accuracy	Body: 35 ~ 42℃(95℉ ~107.6℉) / ±0.3℃(0.5℉)
	Surface: 0 ~ 60℃ (32℉~140℉) / ±1℃(1.8℉)
Repeatability	±0.2℃(0.4℉)
Response time	1s
Measuring Distance	1 to 4cm
Power supply	2 x AAA batteries



Size(HxWxD): 48mm x 52mm x 105mm
Weight: 130g
Accessories: 2 x AAA batteries, Carrying case and Gift box.

www.cem-instruments.com
E-mail:cemyjm@cem-instruments.com

DT-886/886B
Ear Thermometers



Model 886



886/886B Infrared Ear Thermometers measure the kind of temperature from the eardrum has been found to be a clinically reliable indicator of body core temperature.They are high quality products incoperating the latest technology and tested in accordance with international standard.They perform a self-test every time and can be used by consumers in household environment and doctor in clinic as reference.

Features	886	886B
Unique Thermoscan Feedback system confirms the thermometer in the correct position and then confirms an accurate temperature reading taken by a constant light and a beep	*	*
Temperature results in degrees ºC or degrees ºF	*	*
Accurate and safe for newborns and the whole family, new ultra soft and gentle tip is warmed up for accuracy and extra comfort Memory recalls last 8 temperatures	*	*
Bluetooth & Cloud server		*

Specifications	
Temperature unit	ºC/ºF
Body Temperature range	32.0ºC~42.9ºC/89.6ºF~109ºF
Basic accuracy	35.5ºC~42.0ºC(±0.1ºC/0.2ºF)
Resolution	0.1ºC/0.1ºF
Response time	0.5S
Operating environment	5ºC~40ºC (41ºF~104ºF) /15~95%RH

Size(HxWxD): 155mm x 50mm x 33mm
Weight: 68g
Accessories:
2x1.5V batteries, Gift box.

DT-807 Non-Contact Clinical Forehead InfraRed Thermometer



Model 807

Accuracy: ±0.3ºC/±0.5ºF



Features
Precise non-contact Forehead temperature measurements
Selectable ºC or ºF
Selectable Body and Surface temperature
Automatic Data Hold & Auto power off
Display Resolution 0.1ºC(0.1ºF)
Backlight LCD display

Specifications	
Range (Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range (Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998(2003)	32 to 35.9ºC/93.2 to 96.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	1~5cm
Response time	0.5 second

DT-608 Mini Non-Contact Forehead Infrared Thermometer



Model 608



Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

Features
Precise non-contact body temperature measurements
Selectable ºC or ºF & forehead heat detection
Selectable Body and Surface temperature
Automatic Data Hold & Auto power off
Automatic selection range and Display Resolution 0.1ºC(0.1ºF)
0.5~2.5cm Measuring distance

Specifications	
Body temperature range	30.0ºC to 42.5ºC/86ºF to 109ºF
Surface temperature range	0ºC to 60ºC(32ºF to 140ºF)
Resolution	0.1ºC/0.1ºF
Basic accuracy	±0.3ºC at 30ºC~40ºC/86ºF~104ºF Range
Response time	0.5 second
Over range indication	LCD will show “Hi”/ “Lo”
Emissivity	fixed at 0.95
Spectral response	6~14um
Power off	Automatic shut off after 7 seconds, approx.

Size(HxWxD): 80mm x 40mm x 23mm
Weight: 33g
Accessories: One CR2032 button battery, Carrying case and Gift box.

DT-808H
Non-Contact Clinical Forehead InfraRed Thermometer

Safety Conformance

- ISO80601-2-56 and ASTM E1965-98
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1)
- EN60601-1-11: Medical electrical equipment-Part 1-11:General requirements for basic safety and essential performance-Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment(IEC60601-1-11)

Memorization of the last 32 measurements

Accuracy: ±0.3ºC/±0.5ºF



Model 808H

Features
Measures skin temperature from 89.6°F to 108.5°F (32.0°C to 42.5°C) without contact
Accurate to ±0.5°F (±0.3°C) with 0.1°F/°C resolution
Adjustable alarm alerts user visually and audibly when temperature exceeds programmed limit
Optimal measurement distance of 1.9 to 5.9 in. (5 to 15 cm)
Surface temperature mode measures from 32.0°F to 140°F (0°C to 60.0°C)
Fast response (0.5 seconds)
Simply press the trigger and read temperature on the large backlit LCD display
Memory stores up to 32 readings for easy recall
Bluetooth interface

Specifications	
Range(Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998(2003)	32 to 35.9ºC/89.6 to 96.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	5-15CM
Response time	0.5 second

Size(HxWxD): 146mm x 88mm x 43mm **Weight:** 205g
Accessories: 2x1.5V“AA”batteries, Carrying case and Gift box.

DT-8807H/8807HB Non-Contact Clinical Forehead InfraRed Thermometers

Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

Memorization of the last 10 measurements

Accuracy: ±0.2ºC/±0.4ºF

Bluetooth





Model 8807HB

Features	8807H	8807HB
Precise non-contact forehead temperature measurements	*	*
Selectable ºC or ºF & forehead heat detection	*	*
Selectable Body and Surface temperature	*	*
Set alarm value and sound alarm	*	*
Memorization of the last 10 measurements	*	*
Automatic Data Hold & Auto power off	*	*
Display Resolution 0.1ºC(0.1ºF)	*	*
Backlight LCD display	*	*
Bluetooth interface		*

Specifications	
Range(Body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(In Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998	32 to 35.9ºC/93.2 to 89.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	1~5cm
Response time	0.5 second

Size(HxWxD): 42mm x 35mm x 150mm **Weight:** 125g
Accessories: Two 1.5V “AAA” batteries, Carrying case and Gift box.

MT-1/MT-2

2 in 1 Non-Contact Clinical Forehead InfraRed Thermometer with TDS/TVOC

Body Temperature · Room Temperature · Object Temperature · Auto off · CE 0197 · FC



Model MT-1







Size(HxWxD): 35mm x 142mm x 50mm
Weight: 73g
Accessories: 2x1.5V batteries, Gift box.

Features

	MT-1	MT-2
TDS	*	
Body temperature	*	*
Ambient temperature/Surface temperature	*	*
White LED digital display	*	*
Selectable Body and Surface temperature	*	*
Fast response less than 1 second	*	*

Specifications

	MT-1	MT-2
TDS	TDS: 0-9990PPM	
Body temperature Measuring range	35-42°C (95 -107.6 °F)	
Ambient temperature measuring range	0-60°C (32 -140 °F)	
Basic accuracy	Body temperature: +0.2°C / +0.4°F TDS: +2%F.S	Body temperature: +0.2°C / +0.4°F TVOC: +5%F.S
Resolution	Body temperature: 0.1°C/°F TDS: 1PPM	Body temperature: 0.1°C/°F TVOC:0.001
Measuring distance	1-5CM	
Operating temperature	10-40°C	
Operating Humidity	<85%RH	
Battery type	2*AAA	
Tips: TDS = Total Dissolved Solids, which is any salt, metal or mineral in the water		

DT-8836/8836H Non-Contact Clinical Forehead InfraRed Thermometers

CE 0197 · FC



Model 8836/8836H





8836/8836H Clinical Forehead Infrared Thermometers ensure accurate and stable body temperature readings, which is particular efficient for taking the temperature of newborn babies and children. From a distance of around 20cm, all you have to do is pointing it towards the forehead to read the temperature readings on the LCD screen. The temperature readings are transmitted to smart phone via bluetooth which transmits information to the cloud.

Features

	8836	8836H
Precise non-contact forehead temperature measurements	*	*
Selectable ºC or ºF & forehead heat detection	*	*
Selectable Body and Surface temperature	*	*
Set alarm value and sound alarm	*	*
Face recognition	*	*
Image storage	*	*
Automatic Data Hold & Auto power off	*	*
Automatic selection range	*	*
Display Resolution 0.1ºC(0.1ºF)	*	*
Backlight LCD display	*	*
Readings memories	*	*
Records readings with real date and time stamp	*	*
Read the Max/Min measuring temperature	*	*
Automatic generation of data tables		*
Automatic Data Hold & Auto power off	*	*

Specifications

Range(body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998(2003)	32 to 35.9ºC/89.6 to 96.6ºF(±0.3ºC/±0.5ºF) 36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF) 39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	15-25CM
Response time	0.5 second

Size(HxWxD): 155mm x 50mm x 33mm **Weight:** 68g
Accessories: 2x1.5V batteries, Gift box.

DT-8809H/8809B/8809N

DT-8809B/8809N Non-Contact Infrared Thermometers for animals

CE 0197 · FC

Measuring distance 0.5~1m

Features

	8809H	8809B	8809N
Measuring distance with laser targeting		0.5-1m	0.5-1m
Precise non-contact forehead temperature measurements	*	*	*
Selectable ºC or ºF & forehead heat detection		*	*
Selectable Body and Surface temperature	*	*	*
Set alarm value and sound alarm	*	*	*
Memorization of the last 32 measurements	*	*	*
Automatic Data Hold & Auto power off	*	*	*
Display Resolution 0.1ºC(0.1ºF)	*	*	*
Backlight LCD display	*	*	*
Read the Max/Min measuring temperature	*	*	*
Red backlight & beeper alarm	*	*	*
Interface	Bluetooth	Bluetooth (Optional)	NB-IOT



Triple LCD display with white backlit



Red backlight alert



Model 8809H

Bluetooth







Specifications

Range(body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range(Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Range (animal mode)	32.0ºC to 50ºC/89.6ºF to 122ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy	±0.3ºC/±0.5ºF
Measuring distance	50-100CM
Response time	0.5 second

Size(HxWxD): 204mm x 155mm x 52mm **Weight:** 320g
Accessories: 9V battery, Gift box.

DT-806 Series Non-Contact Body Infrared Thermometers

Non-Contact Body IR Thermometer is a newly design with European style, specially designed to take the body temperature of a person regardless of room temperature.

CE 0197 · FC · FDA

Features

	806//806D/806R	806C	806CV	806B
Precise non-contact body temperature measurements	*	*	*	*
Selectable ºC or ºF & forehead heat detection	*	*	*	*
Selectable Body and Surface temperature	*	*	*	*
Set alarm value and sound alarm	*	*	*	*
Memorization of the last 32 measurements	*	*	*	*
Automatic Data Hold & Auto power off	*	*	*	*
Automatic selection range and Display Resolution 0.1ºC(0.1ºF)	*	*	*	*
Backlight LCD display	*	*	*	*
Meterbox iCare & cloud computing service				*
Red, orange, green LED indicator		*	*	
Talking function			*	
Body IR Thermometer analyzer				*
Measuring distance (Distance to Spot size)	1~10cm			
Bluetooth & Cloud server				*



Blue backlight
Low temperature reading alarm



Red backlight
High temperature reading alarm



Model 806/806C

Leyu Baby APP functions:
Temperature measuring data transferred to Cloud Edit, analysis & Store the temperature data
Connecting with iPhone/iPod/ iPad/Android Phone/Android Pad
Sharing the data with others by E-mail, facebook & twitter Trend capture Cloud backup

Leyu Baby APP





Model 806B



Size(HxWxD): 150mm x 58mm x 40mm
Weight: 157g
Accessories: 2 x1.5V "AAA" batteries, Carrying case and Gift box.

DT-8817

Non-Contact Clinical Forehead InfraRed Thermometer



Model 8817

Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

Features

- Precise non-contact forehead temperature measurements
- Selectable ºC or ºF & forehead heat detection
- Memorization of the last 10 measurements
- Selectable Body and Surface temperature
- Automatic Data Hold & Auto power off
- Set alarm value and sound alarm
- Display Resolution 0.1ºC(0.1ºF)
- Backlight LCD display

Specifications	
Range (In body mode)	32.0ºC to 42.5ºC/89.6ºF to 108.5ºF
Range (In Surface mode)	0ºC to 60ºC/32ºF to 140ºF
Resolution	0.1ºC/0.1ºF
Basic accuracy ASTM E1965-1998(2003)	32 to 35.9ºC/93.2 to 96.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	1~75cm
Response time	0.5 second

Size(HxWxD): 146mm x 104mm x 43mm **Weight:** 163g
Accessories: 9V battery, Carrying case and Gift box.

DT-8807 Non-Contact Forehead InfraRed Thermometer



Model 8807



Features

- Precise non-contact forehead temperature measurements
- Selectable ºC or ºF & forehead heat detection
- Selectable Body and Surface temperature
- Set alarm value and sound alarm
- Memorization of the last 32 measurements
- Automatic Data Hold & Auto power off
- Automatic selection range
- Display Resolution 0.1ºC(0.1ºF)
- Backlight LCD display

Specifications	
Range(Body mode)	35.0ºC to 42ºC/95.0ºF to 107.6ºF
Range(Surface mode)	0ºC to 100ºC/32ºF to 212ºF
Resolution	0.3ºC/0.6ºF
Basic accuracy ASTM E1965-1998	32 to 35.9ºC/89.6 to 96.6ºF(±0.3ºC/±0.5ºF)
	36 to 39ºC/96.8 to 96.6 to 102.2ºF(±0.2ºC/±0.4ºF)
	39 to 42.5ºC/102.2 to 108.5ºF(±0.3ºC/±0.5ºF)
Measuring distance	1~4cm
Response time	0.5 second

Size(HxWxD): 35mm x 160mm x 50mm **Weight:** 120g
Accessories: Two 1.5V "AAA" batteries, Carrying case and Gift box.

BS-860 High Definition Personal Video Borescope

BS-860 personal video borescope using 3.5" TFT LCD with high resolution: 320(W) × 240(H) application of H. 264 video codec technology makes images clearer. The flexible and comfortable wateproof (IP67) goose neck provide easy, simple and convenient way to check the place where hard to see.

Specifications	
LCD screen type	3.5"TFT
LCD Pixels	320x240
The max number of frames(FPS)	30FPS/S
Picture format from the camera	JPG(640x480)
Camera video format	AVI
Gooseneck length	1m(39")
Camera diameter	6mm(0.23")
Viewing distance	15cm to ∞
Viewing direction	Viewing angle 64º
Zoom and Rotation	2xZoom, 90º rotation
SD card	2GB/Max 32GB
Working voltage	Li Battery 3.7V/1800mA
Language	Support English,French,German, Spanish

Size(HxWxD): 120mm x 87mm x 185mm **Weight:** 584g
Accessories: 3.7V Li battery, gift box with carrying case.

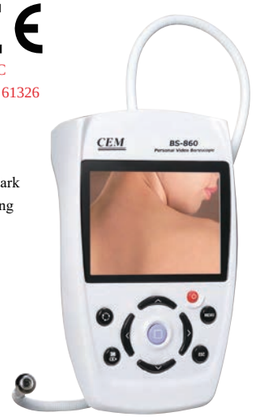
EMC
EN: 61326

Features

- 3.5" Color TFT LCD
- Camera and Video function
- Support real-time live view
- TV peripherals to support operations in other
- Highlighted with LED to support the operation in the dark
- Built-in 1800mAh lithium battery, support USB charging
- Standby function to support the charge
- Support rotating the image 180° from top to bottom
- Flexible gooseneck camera head with waterproof IP67







Model 860

DT-137/137S/137H

Electron Clinical Thermometers

The special-purpose of electron clinical thermometer is body temperature Measuring, offering safe, accurate and quick temperature readings. Select oral, rectal or axillary as your measurement site. No need to worry about broken glass or mercury hazards.

Oral Thermometer with Flexible Tip (137S)

Specifications	
Measurement range	32.0ºC -42.9ºC(89.6ºF-109.2ºF)
Measurement accuracy	±0.1ºC(0.2ºF)between 35ºC to 42ºC (95ºF to 107.6ºF)
Operating Temperature	10ºC to 40ºC(50ºFto 104ºF)
Storage temperature	-10ºC to +60ºC
Memory	For signaling the last measured value
Battery	3V, CR2032(137), LR44 1.5V (137S/137H)

Size(HxWxD): 156mm x 34mm x 22mm **Weight:** 32g
Accessories: 3V, CR2032(137), LR44 1.5V (137S/137H) battery, Clamshell



Model 137 Model 137H Model 137S

DT-106/106S Electron Clinical Thermometers

Features
Oral Thermometer with Flexible Tip (106S)
Electronic thermometers for adults, children, babies and pets for oral, armpit and rectal temperature measurement
This electronic thermometer with LCD display can read the measured value clearly and quickly. Using a precision chip
This thermometer has a beep sound. After the test, there will be a sound prompt or a fever sound.
The probe is waterproof and easy to clean

Specifications	
Measurement range	32.0ºC -42ºC(89.6ºF-107.6ºF)
Measurement accuracy	±0.1ºC(0.2ºF)between 35ºC to 42ºC (95ºF to 107.6ºF)
Measurement time	about 1 minute
Operating Temperature	10ºC to 40ºC(50ºFto 104ºF)
Storage temperature	-10ºC to +60ºC
Memory	For signaling the last measured value
Battery	LR44 1.5V





Model 106 Model 106S

Size(HxWxD): 125mm x 19mm x 10mm **Weight:** 32g
Accessories: 3V, CR2032(137), LR44 1.5V (137S/137H) battery, Clamshell

SM-136 Multifunction Electric Facial Massage Device

three modes have been designed according to the daily skin care routine: anti-wrinkle, Lifting and Comfort .

Frequency Conversion Radio Frequency Technology: Dynamic frequency conversion radio frequency can quickly activate collagen in the dermis, smooth wrinkles, and make the skin full. In addition, it is equipped with an intelligent thermostatic system to accelerate the absorption of essence and skin microcirculation.
Combination of Positive and Negative Ions: Positive ions can suck out hidden dirt and export residues that are difficult to reach by ordinary cleaning products; Negative ions can help the effective ingredients penetrate into the skin bottom and enhance the skin care effect.

Specifications	
Working mode	RF mode: anti-wrinkle
	EMS mode: Lifting
	Comfort mode: Vibration comfort
LED type	Red light
RF frequency	1MHz
Battery capacity	2600mAh
Power adapter	DC5V, 2.25A, TYPE C interface
Operating temperature	5°C ~30 °C relative humidity 20-80%

Size(HxWxD): 35mm x 180mm x 45mm **Weight:** 210g
Accessories: Carrying case and Gift box.



Model SM-136

The non-contact thermometer with automatic induction temperature measurement.
When the measured human body or object moves beyond the induction distance, it will automatically sleep.



Model AM-322

Safety Conformance

- ISO80601-2-56 and ASTM E1965-98
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1)
- EN60601-1-11: Medical electrical equipment-Part 1-11:General requirements for basic safety and essential performance-Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment(IEC60601-1-11)

Features
Precise non-contact temperature measurements
Selectable ºC or ºF & forehead heat detection
Selectable Body and Surface temperature
Set alarm value and sound alarm
Memorization of the last 32 measurements
Automatic Data Hold & Auto sleep
Automatic selection range
Display Resolution 0.1ºC(0.1ºF)
Backlight LCD display
Out of range prompt the display shows "Hi" / "Lo"

Specifications	
Body temperature range	32.0°C to 42.5°C / 89.6°F to 108.5°F
Surface temperature range	0°C to 50°C / 32°F to 122°F
Accuracy	±0.2°C / ±0.4°F
Measuring Distance	5-15CM
Response Time	0.5s
Out of range prompt	The display shows "Hi" / "Lo"
Emissivity	0.95fixed value
Wavelength	8~14um
Auto sleep	When the measured human body or object moves beyond the sensing distance, it will automatically sleep
Working temperature	10°C to 40°C (50°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Relative humidity	10%~90%RH (storage), <80%RH (operation)
Power Supply	DC 3.7V (ICR18500)
Waterproof level	IP54

Size(HxWxD): 180mm x 82mm x 55mm **Weight:** 255g
Accessories: Gift box with carrying case.



Non-contact temperature measurement

Dual Mode

LCD
Backlit display







- Measure the visitor's temperature
- 1080P HD Video
- Wide-angle lens
- Infrared Night Vision
- Motion detection with Humanoid filter
- Two-Way Talk with Noise Cancellation
- Remotely view the real-time video at any time
- Real-Time Notifications
- Force Disassembly Alarm
- 2.4GHz Wi-Fi
- Built-in Rechargeable Battery, Long Battery life
- White, black and gold color selectable

Specifications	
Temperature Measuring range	32°C to 45°C(89.6°F to 113°F)
Temperature measurement accuracy	±0.5°C
Temperature measurement distance	10 to 30 cm
Temperature measurement time	0.5 Second
Camera resolution	1080P
Video coding format	H.265
Camera field angle	144°
Day night switching mode	IR-CUT
Infrared night vision	Six 850nm Infrared lamp
Infrared night vision distance	More than 3m
Human detection distance	Far, middle and near adjustable, Up to 5m
Human detection angle	118°
Live view mode	Remotely view the real-time video at any time
Wireless connection	IEEE 802.11b/g/n Wi-Fi connection@2.4GHz RF 433MHz
Storage	Card Record(16G)/Cloud Record
Power supply	Hardwired to 24VAC Transformer, USB, rechargeable lithium battery
Battery	Lithium battery (3.7V, 5000mAh)
Standby current	200uA
Working current	180mA

Size(HxWxD): 139mm x 85mm x 32mm **Weight:** 260g
Accessories: Lithium battery, Carrying case and Gift box.



Model DR-100A

CE
EMC
EN: 61326
EN: 60825-1



Model DR-100B



Cold chain temperature and humidity data recording solutions



When transporting pharmaceuticals, clearly defined temperature and humidity limit values usually need to be complied seamlessly and continuously. Breaching these limit values can result in irreversible damage to the active substances or to the composition of the pharmaceuticals.

The control of the entire cold chain from production through to the delivery is an absolute must for GxP-compliant quality management, in order not only to ensure product quality, but also to avoid potential financial losses.

In clinics and hospitals, temperature and humidity values have the highest priority. Medicines and blood products, for example, need defined constant temperatures, in order not to spoil.



DT-1700H P388

7.7” TFT color Large LCD screen, convenient for direct viewings of key information including temperature, humidity, and dew point curve change data, Wet bulb, GPP, alarm status, etc. Data logger record up to 80 million data points, suitable for food production, environmental monitoring, medical and health, fire safety, warehouse, office, etc.



DT-270TK P118

The 270TK Food safety type-k thermometer in the food sector, cooling chain compliance has to be checked and verified. The ambient conditions may also have an influence on product quality. This makes continuous monitoring of temperature and relative humidity in the warehouse essential.



DT-191A P389

Larger LCD display output PDF Temperature & Humidity datalogger, high accuracy sensor, up to 32,000 recording points. A wide measuring range: -30℃ to 70℃/-22℉~158℉;

Built-in USB connector, no cable required to download data.



DT-194TH P392

194TH series output PDF Temperature/Humidity & Vibration dataloggers can monitor temperature/humidity/Vibration values efficiently and conveniently for long time by using the Datalogger. 194TK is thermocouple datalogger.

The readings are saved in the logger and simply read out by your PC with USB interface.



DT-193 P391

193 series Plug-PDF Temperature/Humidity/vibration dataloggers can monitor temperature/humidity/vibration values efficiently and conveniently for long time by using the Datalogger. 193TB1/193HB1 are with bluetooth, the readings can be read on the smartphone by APP software. 193TN1/193HN1 are with NB-IOT function, the readings will be uploaded to cloud server and can be read on the smart phone.

The readings are saved in the logger and simply read out by your PC with USB interface.

Business & Home & Portable Energy Storage Solutions







AC Electric Vehicle Charging Unit **P577**

EV-230 series LED INDICATOR LIGHTS - The LED indicator lights on the charging cable show you where your car is across three different charging levels. It alerts you if a fault is discovered, allow you to manage the problem right away.



Portable Power Stations **P581**

Digital LCD Screen displays real time performance metrics, including time until empty
Harness the sun's energy with the Solar Panel to charge the portable power station
Pass through charging to simultaneously charge and power devices
Compact size for convenient storage in a job box or vehicle, to power devices anywhere
Internal cooling fan maintains the appropriate operating temperature range



Micro inverter **P584**

Easy installation, just plug and play With Reactive Power Control, compliant with VDE-AR-N 4105: 2018 & EN 50549-1: 2019
External antenna for stronger communication with data transfer unit



Solar Storage & Grid-connected Hybrid Inverter **P585**

Including photovoltaic access, two-way transmission of battery energy, grid-connected, off-grid, and with EMS system for energy scheduling, the use of electricity efficiency is the best, load guarantee is the best;
Photovoltaic/mains charging mode is optional, battery/mains power supply mode is optional, lithium battery/lead-acid battery is optional, independent grid-connected, off-grid, parallel/off-grid integration and other modes can be selected;



Home Energy Storage Power **P587**

The BT series can work with connected solar panels, grid (or generator), load, built-in phosphoric acid lithium-ion battery, hybrid inverter and energy management system. There are four operating modes: SOL (Solar First), UEI (Mains Priority), SBU (Solar-Battery-Mains), and SUB (Solar-Mains-Battery), four operating modes, as described in the settings section of the user manual.

AC Electric Vehicle Charging Unit



Specifications				
MODEL	EV-230	EV-270A	EV-280	EV-290
Cable length	5M			
Input Frequency	50/60 Hz			
Max.Power	3.5KW/7KW/9.6KW/12KW	3.5KW/7KW/9.6KW/12KW	14KW(7KW*2)	14KW(7KW*2)
Max AC Charging Current	16A/32A/40A/50A	16A/32A/40A/50A	64A(32A*2)	64A(32A*2)
Connector Type	SAE J1772, IEC 62196-2, GB/T 18487.1-2015	SAE J1772, IEC 62196-2, GB/T 18487.1-2015	SAE J1772, IEC 62196-2, GB/T 18487.1-2015	SAE J1772, IEC 62196-2, GB/T 18487.1-2015
Status indication	Red, Green, Blue LED	LED/TFT LCD	Red, Green, Blue LED	Red, Green, Blue LED
Connection	Bluetooth, WIFI, Ethernet	Bluetooth, WIFI, Ethernet	Bluetooth, WIFI, Ethernet	Bluetooth, WIFI, Ethernet
Enclosure	IP65/IP54		IP54	
Installation Mode	Wall mounted type			floor type
Operating environment	-30~55°C, 5%~95%RH			
Altitude	<2000m			
Type of cooling	Natural cooling			

Size(HxWxD): 280x170x100mm (EV-230), 403x192x115mm (EV-270/280)
Weight: 6.5kg
Accessories: Screw(PA6X35) x 4PCS, Screw(M4 X12) x 2PCS, Wall Anchor(ϕ8x40) x 4PCS, Plate hand x 1PCS, Wall Dock x 1PCS, Quick Reference Guide

EV-210 series EV Charger, 110V-240V 32Amp, NEMA 14-50 Plug, 25ft Extension Cord, Indoor/Outdoor Portable EVSE Electric Vehicle Charger, Compatible with J1772 EVs

Features

- 240 Volts, 7.2 KW at 32 Amp, NEMA 14-50 plug, fast charging at home now is simple and convenient with EV-210 32A portable EV charger. Compact yet powerful, this charger is 6X faster than 10A level-1 chargers that are packed with your electric vehicles (EVs), proving up to 23 miles per hour of charge, with flexible amperage settings of 10/16/20/24/32A.
- This EV car charger adopts the SAE-J1772 standard plug for almost all electric cars and plug-in hybrid vehicles.

Specifications				
Cable Length	5m			
Max AC Charging Current	10 Amp	16 Amp	32Amp	40 Amp
Max Power	2.2kW	3.5kW	7kW	8.8kW
Connector Type	SAE J1772, IEC 62196-2, GB/T 18487.1-2015			
Enclosure	IP65/IP54			
Status Indication	Red,Green, Blue LED			
LCD	No/YES			

Size(HxWxD): 264x96x53mm **Weight:** 5kg
Accessories: Screw(KA4X25) x 4PCS, Screw(PM3 X12) x 4PCS, Wall Anchorx 4PCS, Wall Dock x 1PCS, connector holster, Quick Reference Guide



Model EV-210B



EV-12V Power Inverter 150W

EV-12V convert DC 12v to AC 220v 50Hz, provids 150 watts continuous modified sine wave power, featuring two AC outlets and USB ports for multi-purpose charging, great high efficiency, conversion efficiency.

Intelligent digital display battery/voltage: Real time display of input/output voltage/current status;
Power control without damaging the battery/appliance: built-in intelligent chip, automatically identifying the voltage required by different devices, ensuring safe charging without damaging the device.
Nine fold safety protection: overcharge protection, short circuit protection, shutdown protection, overload protection, overvoltage protection, undervoltage protection, electric shock protection, high temperature protection, and impact protection.

Specifications	
DC Input	DC 12V 20A Max
DC Output	USB Output: 4.5V ⎓ 5A; 5V ⎓ 4.5A; 5V ⎓ 3A; 9V ⎓ 3A; 12V ⎓ 2.25A;
	Type-C Output: 5V ⎓ 3A; 9V ⎓ 3A; 12V ⎓ 2.25A;
	DC Total Ouptut: 5V ⎓ 5A;
AC Rated Power	150W
AC Output Voltage	AC 220V~240V, 50Hz 150W Max (Corrective wave)
Length of cigarette lighter cable: 40cm+Connector	

Size(HxWxD): 190 x 80 x 45mm **Weight:** 300g
Accessories: Quick user guide



Model EV-12V



Features

Flexible configuration
60kW-160kW multiple power configuration methods to meet customer customization needs

Efficient charging
Wide voltage range, large charging current, reduced charging queue time improved operational efficiency

Safe and reliable
Complete protection to meet the latest national and industry standards

Ultra low energy consumption
Low power loss during operation and standby，effectively reducing customer operating costs

Cloud management
Support cloud management to provide customers with more convenient and intimate charging operation management solutions

Convenient payment
Support for payment methods such as Visa，Master card，RFID card，mobile payment etc

EV DC FAST Charger Series outdoor DC integrated charger adopts a new generation of 20kW to 40kW intelligent charging module, single and double guns can be arbitrarily selected according to customer needs. The dual-gun type can be distributed, according to the actual charging demand to meet the charging needs of small and medium-sized passenger cars and logistics vehicles.

Specifications						
MODEL	EV-D1000C 20	EV-D1000C 30	EV-1000C 60	EV-1000C 80	EV-D1000C 120	EV-D1000C 160
Cable length	5m/16.4ft					
Input Voltage	380 Vac±15%					
Input Frequency	45 to 65Hz					
Max.Power	20kW	30kW	60kW	80kW	120kW	160kW
Max. output current	67A	100A	200A	266A	400A	532A
Enclosure	IP54					
Operating environment	-30~55°C, 5%~95%RH					
Altitude	<2000m					
Size	420*190.7*660mm		750×450×1700mm			
Over voltage protection, under voltage protection, over current protection, leakage protection, grounding protection, over temperature protection, lightning protection, cpabnormal protection						



Efficient Allocation
Matrix topology, on-demand allocation, modules loaded on demand, and zero reactive power loss in standby mode.

Cloud-based Management
Supports cloud-based management, providing customers with more convenient and thoughtful charging operation and management solutions.

Support for Remote Upgrade
Supports the operation and maintenance platform, enables remote fault diagnosis, and supports remote OTA and USB-OTA upgrades.

High Protection
Adopts a G3 dust filter, and the air inlet side uses a sound-absorbing louver design. Modules are placed away from the air inlet to enhance system stability.

Precise Fan Speed Regulation
Features hardware protection functions that exceed national standards, with real-time battery status detection and early risk perception. Equipped with a proprietary patented risk early warning function to ensure component safety and prevent fire.

Intelligent Charging
Full matrix topology and flexible charging. It conducts intelligent and orderly management and control based on power distribution capacity and supports terminal automatic recognition of USB-OTA.

Specifications			
MODEL	EV-F1000C 360	EV-F1000C 480	EV-F1000C 640
Input Voltage	380 Vac±20%/ 50Hz		
DC Output Voltage Range	200V-1000V		
Rated Output Voltage	1000V DC		
Ultra-fast Liquid-cooled Charging Guns		Configure the Number of Guns on Demand 1-2	
Max.Power	360kW	480kW	640kW
Max. output current	1200A	1596A	2128A
Type of cooling	Air Cooling		
Cable length	5m/16.4ft		
Communication Mode	Ethernet interface, RS485, 4G		
Enclosure	IP54		
Operating environment	-30~55°C, 5%~95%RH		
Altitude	<2000m		
Size	Main Cabinet Overall Dimensions: 1350x1000x1950mm		
	Fast Charging Terminal: 98.8x325.5x1430mm		
	Liquid Cooling Terminal: 603.4x355.5x1700mm		
Over voltage protection, under voltage protection, over current protection, leakage protection, grounding protection, over temperature protection, lightning protection, cpabnormal protection			





Model PW-680

PW-680 Portable power station built-in 600w bidirectional inverter, 614Wh LiFePO4 high capacity battery. It's a rechargeable battery-powered generator. Equipped with AC outlet, DC carport and USB charging ports, they can keep all your gear charged, from smartphones, laptops, appliances like mini coolers, electric grill and coffee maker, etc.

Features

- Portable Power Station delivers 600W of Pure Sine-Wave AC power (up to 1200W surge)
- Built-in 614Wh High Capacity lithium-ion (LiFePO4) Battery pack allows for safe indoor use, even in confined spaces
- Bidirectional inverter technology
- Charge and power up to 7 devices simultaneously: two American Standard: 120V/60Hz (If Europe Standard: 220V/50Hz) outlets, four USB ports (100W USB-C PD, USB-C and 2 x USB-A) and a 12V car port
- Digital LCD Screen displays real time performance metrics, including time until empty
- Harness the sun's energy with the Solar Panel to charge the portable power station & built-in MPPT.
- Pass through charging to simultaneously charge and power devices
- Compact size for convenient storage in a job box or vehicle, to power devices anywhere
- Internal cooling fan maintains the appropriate operating temperature range

Accessories







Optional



Optional



Specifications	
Capacity	614Wh 24Ah*25.6V
Output	220V Outlets: 50Hz, 2.7A, 600W max. (Pure-Sine Wave for Europe Standard) or 120V Outlets: 60Hz, 5A 600W max. (Pure-Sine Wave for American Standard) USB-A x 2 Ports: DC5V, 2.4A max. USB-C Port1: 5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/5A 100W max. (PD3.0 quick charge) USB-C Port2: 5V/3.4A;9V/2A;12V/1.5A;18W max. 12V Output Port: 12V,10A max.
Solar charge Input	11-30V, 220W max.
Recharge Time	Fast charger 1.5 hrs
Battery Type	LiFePO4 Battery
Operation Temp	-10° to 40°C
Battery Life	2,000+ Life Cycles to 80%

Size(HxWxD): 300 x 200 x 240mm **Weight:** 6.3kg

Portable power station built-in $LiFePO_4$ high capacity battery. It's a rechargeable battery-powered generator. Equipped with AC outlet, DC carport and USB charging ports, they can keep all your gear charged, from smartphones, laptops, appliances, like mini coolers, electric grill and coffee maker, etc.



Specifications

	PW-1000	PW-1200	PW-2200	PW-520	PW-520H
Capacity	1280Wh 100Ah*12.8V	1228Wh 24Ah*51.2V	2048Wh 40Ah*51.2V	307.2Wh	384Wh
Output	220V Outlets: 50Hz, 4.54A, 1000W max. (Pure-Sine Wave for Europe Standard) USB-A x 2 Ports: DC5V,2.4A max. USB-C Port2: 5V/3A; 9V/3A; 12V/3A;15V/3A;20V/5A 100W max.(PD3.0 quick charge) USB-C x 2 Port2: 5V/3.4A; 9V/2A; 12V/1.5A; 18W max. 12V Output Port: 12V 10A max.	220V Outlets: 50Hz, 5.4A, 1200W max. (Pure-Sine Wave for Europe Standard) or 120V Outlets: 60Hz, 10A 1200W max. (Pure-Sine Wave for American Standard)) USB-A x 2 Ports: DC5V,2.4A max. USB-C Port1: 5V/3A; 9V/3A; 12V/3A;15V/3A;20V/5A 100W max. (PD3.0 quick charge) USB-C x 2 Port2: 5V/3.4A; 9V/2A; 12V/1.5A; 18W max. 12V Output Port: 12V 10A max.	220V Outlets: 50Hz, 10A, 2200W max. (Pure-Sine Wave for Europe Standard) or 120V Outlets: 60Hz, 18A 2200W max.(Pure-Sine Wave for American Standard) USB-A x 3 Ports: DC5V,2.4A max. USB-C Port1: 5V/3A; 9V/3A; 12V/3A;15V/3A;20V/5A 100W max. (PD3.0 quick charge) USB-C x 2 Port2: 5V/3.4A; 9V/2A; 12V/1.5A; 18W max. 12V Output Port: 12V 10A max.	USB-A 5V/2.4A Max USB-A(5~12V)18W Max, QC3.0 Built-in USB-C(5~20V) 60W Max, PD3.0 Built-in DC5521 12V/5A Max Car Port 12V/10A Max NOTE: The total output current of DC5521 and Car Port is 10A	
Solar charge Input	11-30V, 220W max.	11-30V, 220W max.	11-30V, 400W max.	100W Max (12~25V/5A)	
Recharge Time		Fast charger 1.5 hrs	Fast charger 2 hrs	power adapter : Full charge 3 to 4 hours, solar energy: Full charge 5 to 6 hours car charging :Full charge 5 to 6 hours	
Battery Type	$LiFePO_4$ Battery				
Operation Temp	-10° to 40°C				
Battery Life	2,000+ Life Cycles to 80%				
Size(HxWxD)		380x260x245mm	410x280x305mm	220x190x170mm	
Weight		14kg	18.5kg	5.5kg	

PW-2500E/2500C/2500U

2.5kW High-end Household Energy Storage Power Supply



ADVANTAGES

- Flexible capacity options, 2.56kWh~5.12kWh
- Excellent safety of LiFePO4 battery, certified by UL Lab
- Compatible with most of branded inverters in market
- Flexible pack battery, highly precious pack technology
- Cycle life> 5000+
- Easy installation with floor stand
- Module design to easy assembly and control temperature
- Batteries can be stacked for use, the user can buy extra battery to add capacity range from 2.5kWh to 5.12kWh.

Specifications

Model			
PW-2500E is 220V/ 50Hz Outlets input/ output Pure-Sine Wave for Europe Standard PW-2500C is 220V/ 50Hz Outlets input/ output Pure-Sine Wave for Chinese Standard PW-2500U is 110V/ 60Hz Outlets input/ output Pure-Sine Wave for American Standard			
AC output (Europe Standard)			
Output Wattage	220V-240V	2500W	Pure Sine Wave
Overload	220V-240V	2500W < load < 3000W, 2 minutes; 3000W < load < 3500, 8-10 seconds; 3500W < load; 200mS; (Before triggering short-circuit protection)	Error range ±50W
Instantaneous Peak Power	4998W Max		100ms
Frequency	50Hz ±1Hz	Short Circuit Protection	Yes
Inversion Efficiency	≥92%	Power Factor	≥0.99
Inductance & Capacitive Load	2500VA; Comply with the RCD load standard in the YD/T 1092-2018 UPS industry standard and can stably pull the load		
AC input			
Input Rated Voltage	220V	Input Voltage Range	176~264V
Input Undervoltage Protection	165V ±5V	Input Undervoltage Recovery	170V ±5V
Input Overvoltage Protection	270V ±5V	Input Overvoltage Recovery	265V ±5V
Input Current	11.5A	Input frequency	45~65Hz
MPPT input			
DC input voltage Range	10-85V DC	Rated Input Voltage	2400W (Single input 1200W)
NO. MPPT Tracker	2	Rated Input Voltage	48V DC
Input Max Current	≤25A		
Battery			
Battery Type	LiFePO4	Rated Capacity	50Ah
battery Capacity	2.56kWh (Max. 10.24kWh) Only one 2.56kWh battery is standard; Batteries can be stacked for use, the user can buy extra battery to add capacity range from 2.5kWh to 5.12kWh.		
Rated Voltage	51.2V	Working Voltage Range	43.2-57.6 V
Lifecycle	≥5000	Operating temperature	0~50℃
Operating humidity	5%~95% (Non-condensing)	Dimensions	380*300*490mm
Weight	40kg		

MPW-600 Series

Microinverter

The microinverters are all built to deliver safety and stability you can count on. Unlike high-voltage string inverter systems, our microinverters operate on less than 60V DC voltage, supported by 6,000V surge protection and IP67 enclosure ratings.

Features

- Easy installation, just plug and play
- With reactive power control, compliant with VDE-AR-N 4105: 2018 & EN 50549-1: 2019
- External antenna for stronger communication with data transfer unit
- High reliability: IP67 enclosure, 6000V surge protection





Model MPW-600

Specifications

Model	MPW-600	MPW-700	MPW-800
Input Data (DC)			
Recommended PV Module Power (STC) Range	250Wp-480Wp+	265Wp-570Wp+	300Wp-660Wp+
Peak Power Tracking Voltage		28V-45V	
Operating Voltage Range		26V-60V	
Maximum Input Voltage	60V	22	22
Maximum input current (A)	16A x 2	18A x 2	20A x 2
Maximum input short circuit current	20A per input	22.5A per input	25A per input
Output Data (AC)			
Maximum Continuous Output Power	640VA	768VA	880VA
Nominal Output Voltage/Range		240V / 211V-264V	
Nominal Output Current	2.66A	3.2A	3.7A
Maximum Output Fault Current (ac) And Duration		5.691Apk, 26.75ms of duration; 3.307Arms	
Nominal Output Frequency/ Range		60Hz/59.3Hz-60.5Hz	
Power Factor (Default/Adjustable)		0.99/0.8 leading…0.8 lagging	
Maximum Units per 20A Branch	6	5	4
Maximum Units per 30A Branch	9	7	6
AC Bus Cable		12AWG / 10AWG	
Efficiency			
Peak Efficiency		97.3%	
CEC Efficiency		97%	
Nominal MPPT Efficiency		99.5%	
Night Power Consumption		20mW	
Mechanical Data			
Operating Ambient Temperature Range		-40°F to +149°F (-40°C to +65°C)	
Storage Temperature Range		-40°F to +185°F (-40°C to+85°C)	
DC Connector Type		Stäubli MC4 PV-ADBP4-S2&ADSP4-S2	
Cooling		Natural Convection - No Fans	
Enclosure Environmental Rating		Type 6	
Features			
Communication		Encrypted ZigBee	
Isolation Design		High Frequency Transformers, Galvanically Isolated	
Energy Management		Energy Management Analysis (EMA) system	
Warranty		10 Years Standard ; 25 Years Optional	

Size(HxWxD): 280 x 215 x 36.5mm **Weight:** 1.5kg

4-15 kW | Single phase | Up to 4 MPPTs | Hybrid Inverter (HV)

Features

- Including photovoltaic access, two-way transmission of battery energy, grid-connected, off-grid, and with EMS (Energy Management System) for energy scheduling, the use of electricity efficiency is the best, load guarantee is the best.
- Photovoltaic/mains charging mode is optional, battery/mains power supply mode is optional, lithium battery/lead-acid battery is optional, independent grid-connected, off-grid, parallel/off-grid integration and other modes can be selected.
- The battery is 48V safety voltage, completely isolated from the power grid/photovoltaic, and has insulation detection, and has intelligent BMS battery management function, which can realize battery self-recovery, temperature compensation, charging band selection, extend battery life, and ensure battery safety and personnel safety.
- Ultra-wide voltage and frequency input range, which can be adapted to extremely unstable areas of the power grid.
- Fashionable appearance, simple and generous, beautiful, ultra-quiet natural cooling design, can be installed indoor, outdoor.
- Support RS485, WIFI, Bluetooth, GPRS remote monitoring mode, and RJ45, phoenix terminal, USB and other interface methods.
- Automatically switch from grid-connected mode to off-grid mode after power off, with a time of < of 5ms, which can ensure uninterrupted work of important loads.
- Using the leading technology in the photovoltaic energy storage industry, the loss is lower than similar products, and the tracking efficiency of MPPT reaches 99.9%, and the maximum conversion efficiency reaches 98%.



Model HPW-15K

Model HPW-5000C

HPW-4000/6000/8000/11K/15K
Solar Storage & Grid-connected Hybrid Inverter

Specifications					
Model	HPW-4000	HPW-6000	HPW-8000	HPW-11K	HPW-15K
Battery Input Data					
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery Voltage Range (V)	48 to 60	48 to 60	48 to 60	48 to 60	75 to 480
Max. Continuous Charging Current (A)	100	100	100	100	75
Max. Continuous Discharging Current (A)	100	100	100	100	75
PV String Input Data					
Max. Input Power (W)	6500	8000	2*6500	2*7500	7.2KW*4
Max.Input Voltage (V)	500	600	500	500	600
MPPT Operating Voltage Range (V)	60 to 500	120 to 550	90 to 500	90 to 500	120 to 550
Start-up Voltage	60	150	90	90	150
Nominal Input Voltage (V)	300-400	384	360-430	360-430	360
Max. Input Current per MPPT (A)	27	13	27	27	13
Number of MPPTs	1	2	2	2	4
Number of Strings per MPPT	1	2/1	2/1	2/1	4/2
AC Output Data (On-grid)					
Nominal Apparent Power Output to Utility Grid (VA)	4000	6000	8000	11000	15000
Max. Apparent Power Output to Utility Grid (VA)	6000	6600	8000	11000	15000
Nominal Output Voltage (V)	220/230/240	110/220 (American/ Europe Standard)	220/230/240	220/230/240	400 / 380, 2L / N / PE American Standard
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	60
Max. AC Current Output to Utility Grid (A)	17.4	30	37.4	47.8	68.2
Power Factor	Adjustable from 0.8 leading to 0.8 lagging				
AC Output Data (Back-up)					
Max. Output Apparent Power (VA)	4000	6000 (9000@60sec)	8000	11000	15000 (22500@60sec)
Nominal Output Voltage (V)	220/230/240	220	220/230/240	220/230/240	120 / 240
Nominal Output Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	60
Efficiency					
Max. Battery to AC Efficiency	98%	97.5%	98%	98%	97.5%
General Data					
Operating Temperature Range/ Relative Humidity	-35 to 60°C/ 0 to 95%RH				
Max. Operating Altitude (m)	4000	4000	4000	4000	4000
Cooling Method	Fan cooling	Natural Convection	Fan cooling	Fan cooling	Natural Convection
Display	LED, APP	LED, APP	LED, APP	LED, APP	LED, APP
Communication with BMS	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN
Communication with Meter	RS485	RS485	RS485	RS485	RS485
Communication with Portal	Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi
Noise Emission (dB)	<50	<50	<50	<50	<50
Ingress Protection Rating	IP20	IP65	IP20	IP20	IP65
Dimension	475*332.5*131mm	420x180x520mm	475*332.5*131mm	475*332.5*131mm	420x180x520mm
Weight	11.3kg	24.8kg	12.3kg	13.3kg	24.5kg

BT-50H Series
Low Voltage Battery System

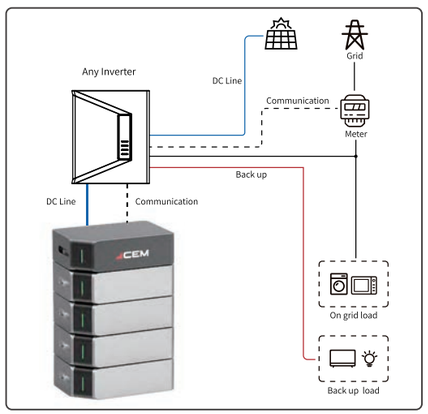
The BT-50H Series voltage battery solution is compatible with EH and ET inverters. It offers a wide capacity range from 5.12 kWh to 10.24 kWh, providing comprehensive energy storage options to meet demanding system requirements, from self-consumption optimization to backup usage. The stackable self-detecting modules make the system especially easy to install and maintain. Meanwhile, the reliable lithium iron phosphate (LFP) battery cell technology ensures maximum safety and a longer life cycle.



Specifications

Model	BT-50H-1	BT-50H-2	BT-50H-3	BT-50H-4	BT-50H-5
Cell Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery System Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Rated Capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Rated Voltage	51.2 V	51.2 V	51.2 V	51.2 V	51.2 V
Working Voltage Range	43.2-57.6 V	43.2-57.6 V	43.2-57.6 V	43.2-57.6 V	43.2-57.6 V
Dimension(W*D*H mm)	442 x 430 x 177	460 x 450 x 530	460 x 450 x 708	460 x 450 x 885	460 x 450 x 1062
Weight	45kg	95kg	140kg	185kg	230kg
Depth of Discharge	95%	95%	95%	95%	95%
Standard Charging Current	0.5C (50A) (25±2℃)				
Maximum Charging Continuous Current	1C (100A) (25±2℃)				
Standard Discharging Current	0.5C (50A) (25±2℃)				
Maximum Discharging Continuous Current	1C (100A) (N.A)				
Communication Port	RS485/CAN				
Protection Class	IP55				
Working Temperature/ ℃	0~50				
Shelf Temperature/ ℃	-20~60				
Humidity	5%~95% (w/o condensing)				
Altitude	<2000				
Design Life	15+ Years (25℃/°F)				
Cycle Life	3000+, 25℃				
Authentication level	VDE2510-50/IEC62619/IEC62477/IEC62040/CE/UN38.3				
Communication protocol	Pylon/Growatt/GOODWE/LUX/victron/voltronic/CEM				

COMPATIBLE WITH MAINSTREAMBR AND INVERTERS
Support various brand inverters in the market, such as SAJ, PYLONTECH, GOODWE, GROWATT, SMA, CEM and so on.





ESS-C125-261L/ C20HC-5015L
Liquid Cooling Business Energy Storage System



Distributed modular energy storage system is an energy storage system designed for industrial and commercial electricity scenarios. The PCS, PACK, BMS, and EMS in the system are all self-developed and produced by the company, with extremely high coupling, and can operate safely and efficiently in various application scenarios. The energy storage system consists of a power cabinet and a battery cabinet, characterized by small footprint and flexible configuration. It can be distributed and deployed in various industrial and commercial energy storage application scenarios, achieving functions such as peak shaving and valley filling, dynamic expansion, participation in power grid allocation, and emergency power consumption.

Modular design
- Different power levels of isolated or non isolated modules can be selected
- Optional AC/DC, DC/DC unidirectional or bidirectional conversion modules
- Optional MPPT module for photovoltaic access
- Optional STS module for parallel and offline switching

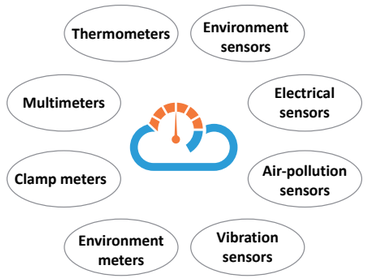
Safe & reliable
- Battery cabinet protection level IP55, power cabinet IP54
- The fourth level fire protection system ensures the safe and stable operation of the battery system
- Small capacity design of battery cabinet, physical isolation of cabinet body, and controllable faults

Specifications

Model	ESS-C20HC-5015L	ESS-C125-261L	ESS-C100-233L
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Capacity	3768Ah	314Ah	280Ah
Rated Battery Voltage	1331.2V	832V	832V
Max Charging Current	2652A/0.5P/1.1 times overload	221A/0.5P/1.1 times overload	197A/0.5P/1.1 times overload
Storage Temperature Range	-20~45°C	-20~45°C	-20~45°C
Cooling Methods	liquid cooling	liquid cooling	liquid cooling
Cycle Life	8000 cycles ≧ 70%DOD@25°C	8000 cycles ≧ 70%DOD@25°C	8000 cycles ≧ 70%DOD@25°C
Net Weight	≈43t	≈2.8t	≈2.75t
Operating Voltage Range	1040V~1518.4V	650V~949V	650V~949V
Max Discharge Current	2652A/0.5P/1.1 times overload	221A/0.5P/1.1 times overload	197A/0.5P/1.1 times overload
Operating Temperature Range	-30~60°C	-30~60°C	-30~60°C
Operating humidity	10%~90%	10%~90%	10%~90%
Communication Type	CAN/RS485/LAN	CAN/RS485/LAN	CAN/RS485/LAN
Size	6058mm*2550mm*2896mm	1000mm*1300mm*2400mm	1000mm*1300mm*2400mm
AC Side Parameters (Grid-connected)			
Nominal Power	2500KW	125kW	100kW
Nominal Voltage	690VAC	400VAC	400VAC
Permissible Grid Voltage Range	AC 690V(-10%~+10%)	AC 400V(-10%~+10%)	AC 400V(-10%~+10%)
Nominal Current	2091A	189A	151A
Output Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Range of Output Frequency	50Hz/60Hz ±2.5Hz	50Hz/60Hz ±2.5Hz	50Hz/60Hz±2.5Hz
Wire Connection Mode	L1, L2, L3	3+N+PE	3+N+PE
THDI	Full Load, 1.1 times long-term overload	Full Load, 1.1 times long-term overload	Full Load, 1.1 times long-term overload
Power Factor	-0.99~0.99	-0.99~0.99	-0.99~0.99

Meterbox Connect

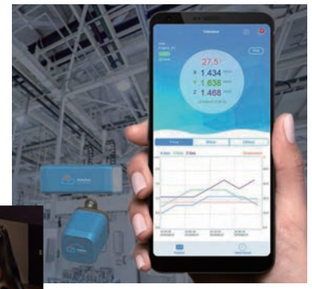
Meterbox Connect IoT platform enables your meters or sensor devices to be safely and efficiently connected to the network, allowing you and your team members to monitor measurement data in real time, easily manage assets, get the latest data at any time, and receive alarms in time.



Connect your measurement world

Wisdom leads the future life

The wide applications of Bluetooth, WIFI, ZIGBEE, GPS, NB-IoT etc involve extending Internet connectivity beyond standard devices, such as desktops, laptops, smartphones and tablets, to any range of traditionally dumb or non-internet-enabled physical devices and everyday objects. Embedded with technology, these devices can communicate and interact over the Internet, and they can be remotely monitored and controlled. CEM IoT applications are: Intelligent agriculture, transportation, security system, air conditioning, healthcare, power grid etc.



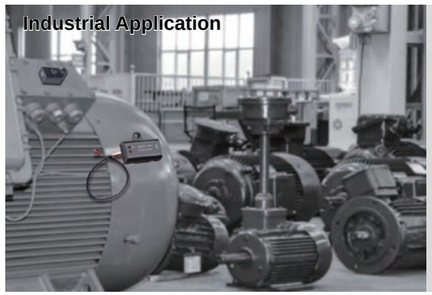




Wireless sensors paired with Meterbox Connect APP can improve your maintenance program.

- Real-time monitor assets
- Asset trends analysis
- Troubleshoot and identify eventseasily and quickly
- Receiving alarms in time from anywhere
- Create analysis report





Vibration sensor



DT-188V

AC Current & Voltage Datalogger



DT-176CV2



Multiple Thermocouple Thermometer



DT-270KT

2 in 1 Folding Infrared Thermometer



Pen Type Thermometer



DT-133A



PM2.5 Air Quality Detector



PM-127

PM2.5 Particle Counter



PM-500



Leyu Non-contact Clinic Forehead Infrared Thermometer



Leyu3

Intelligent Anti-Pollution Mask

Fan speed is adjusted by user's breath
PM2.5 Air Quality Protection



PM-10



Smart Lock

SL-01



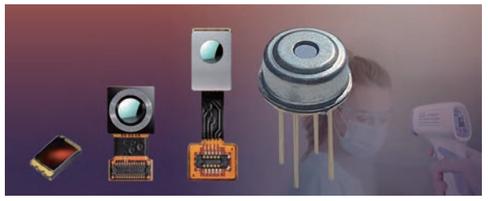


SL-02

MEMS Sensor and Module Sensor



IR-10D/ M3/ E3/ E6 MEMS Digital Non-Contact Infrared SMD Thermometer Sensors



Key Features

- Accurate and stable operation in thermally challenging environments
- 2x2.4x0.6mm QFN package (Model IR-10D)
- Commercial grade: object temperatures between -20 °C and 200 °C with typical accuracy of ±1° C; Medical grade: object temperatures between -20 °C and 100 °C with an accuracy of ±0.2° C in the human body temperature range
- Factory calibrated with I2C digital interface
- -20 °C to 85 °C operational temperature range

C9 Infrared Carbon Dioxide Sensor Module



Model C9



Is a single beam NDIR CO2 sensor, based on non-dispersive infrared (NDIR) technology with independent intellectual property, which can detect CO2 concentration of indoor air. With high accuracy, long term stability, small size, it is widely used for ventilation system, air purifier, air conditioner, HVAC transmitter, IAQ monitor.

Features

- NDIR Single beam NDIR technology with independent intellectual property
- Matrix calibration within whole measurement range and temperature range
- Auto-calibration mechanism with fresh air, no need of maintenance
- High accuracy, Long term stability, long lifespan
- Signal output PWM/UART
- Small size and compact structure, easy to install

Specifications	
Measurement Range	400~5000ppm default (extending to10000ppm)
Response Time	≤60s
Accuracy	±50ppm+5% of reading
Working Temperature	0°C~50°C
Working Humidity	0~95%RH(non-condensing)
Power Supply	DC 5V
Working Current	MAX 90mA
Signal Output	UART, PWM
Installation	Waterproof breathable film upwards

Application scenarios

Air cleaner | Fresh air system | Instrumentation | Farming and animal husbandry

Size(HxWxD): 38mm x 21mm x 14mm **Weight:** 6g
Accessories: blister packaging

PM5050/3510 Particle sensor

PM5050/3510 is a particulate matter concentration sensor that can measure the number concentration and mass concentration of suspended particulate matter in channels with different diameters in the air, and can output in the form of a digital interface or an analog interface. This product can be widely used in various handheld air quality detector products and various air purifier products.

Features

- Principle of Laser Scattering
- The smallest particle size channel of 0.3 um can be detected
- Quick response
- All data are calibrated by CNAS laboratory

Specifications		Resolution	PM3510	PM5050
Mini Resolution Particle Size	0.3μm	1	*	*
Measurement Range	0 to 2000ug/m3	1 ug/m3	*	*
Supply Voltage	5.0V		*	*
Response Time	<5s		*	*
Working Current	<100mA		*	*
Working Temperature	-10 to 50°C		*	*
Working Humidity	20 to 90 %RH(non-condensing)		*	*
MTBF	>30000 hours		*	*
Fan				*

Size(HxWxD): 50mm x 50mm x 20mm (PM5050), 45mm x 13mm x 15mm (PM3510)
Weight: 16g(PM5050), 12g (PM3510)
Accessories: blister packaging



Model PM5050





Model PM3510

Application scenarios

Air cleaner | Fresh air system | Instrumentation | Intelligent kitchen

AQM-08 Air quality sensor

The air quality sensor module measures the content of polluted gases in the air. It is small in size, fast in response time, and high in accuracy. It has a digital output interface and is simple to use. The sensor can be used for indoor environmental air quality detection, environmental protection departments, smart buildings, and smart home improvement systems, smart homes, shopping malls, schools and other applications.

Features

- Small volume
- React immediately when encountering polluted gas
- Quick response and high precision
- Simple to use, digital output interface

Specifications	
Supply Voltage	5.0V
Average power consumption	< 500mW
Response Time	<30s
Detection gas	HCHO, TVOC
Working Temperature	-10 to 50°C
Working Humidity	20 to 90 %RH
MTBF	>30000 hours





Model AQM-08

Application scenarios

Air cleaner | Fresh air system | Instrumentation

VS-20 Vibration sensor

The Vibration sensor it is small in size, fast in response time, and high in accuracy. The sensor can be used for applications for all industrial machinery vibration monitoring, such as transmission system, vehicle dynamics, drop testing, vibration control, bridge monitoring, structural testing, environmental simulation, seismic monitoring, flight flutter, ground vibration testing, engine testing etc.

Specifications		
Range	Velocity :200 mm/s : 0.5 to 199.9 mm/s	
	Acceleration :200 m/s^2 : 0.5 to 199.9 m/s^2	
Frequency range	10 Hz to 1 KHz	
Accuracy	± (5 % + 2 d) reading @80 Hz, 160 Hz.	

Size(HxWxD): 21mm x 21mm x 52mm **Weight:** 26g
Accessories: blister packaging

Features

- RMS & Peak measurement
- Wide frequency range
- Extreme Resolution
- Stable output
- Wide supply voltage range
- Low supply current



vibration monitoring



Bridge monitoring



Model VS-20

MEMS Pressure Sensor Module

MEMS Pressure Sensor is a pressure measurement device that converts pressure signals into electrical signals based on MEMS technology and semiconductor integrated circuit manufacturing and processing technology. CEM MEMS pressure sensor has the advantages of small size, light weight, low power, short response, mass production, low cost, easy integration, etc., and can be widely used in automobiles, consumer electronics, aerospace, medical equipment and industrial control, etc. field.

MPS 100AL1D



Model MPS 100AL1D



Specifications

Pressure range	20~120kPa Absolute pressure
Package type	4040LGA8
Operating temperature	-40~105°C
Supply voltage	3.3V
Product grade	Consumer grade
Normal temperature accuracy	±0.15% F.S.
Full temperature range accuracy	±0.5% F.S.
Output form	IIC
Response time	0.8ms
Factory pre-calibrated	Support customization of calibration parameters
Typical application	altimeter. barometer

MPS 100GD4D/A



Model MPS 100GD4D/A



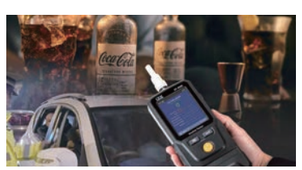
Specifications

Parameter	MPS 010GD4D/A	MPS 050GD4D/A	MPS 100GD4D/A
Pressure range	0~10kPa Surface pressure	0~50kPa Surface pressure	0~100kPa Surface pressure
Package type	8585DIP6	8585DIP6	8585DIP6
Operating temperature	0~70°C	0~85°C	-20~105°C
Supply voltage	3.3V/5V	3.3V/5V	3.3V/5V
Product grade	Consumer grade	Consumer grade	Consumer grade
Normal temperature accuracy	±1% F.S.		
Full temperature range accuracy	±1.5% F.S		
Output form	IIC/analog voltage (0.5~4.5V output)		
Response time	0.8ms		
Factory pre-calibrated	Support customization of calibration parameters		
Typical application	washing machine, dishwasher liquid level detection	industrial control massage chair, sphygmomanometer, oxygen generator	vacuum cleaner negative pressure detection, vacuum juicer negative pressure detection, automation equipment vacuum degree detection

MPS 040GM1D



Model MPS 040GM1D



Specifications

Pressure range	0~40kPa Surface pressure
Package type	Ceramic module
Operating temperature	0~70°C
Supply voltage	3.3V/5V
Product grade	Consumer grade
Normal temperature accuracy	±1% F.S.
Full temperature range accuracy	±1.5% F.S.
Output form	IIC
Response time	0.8ms
Factory pre-calibrated	Support customization of calibration parameters
Typical application	disposable invasive blood pressure sensor

MTP10-A6F8 MEMS Infrared Temperature Sensor

Throuch years of R8D and testing, CEM has developed MEMS infrared temperature sensors of different specifications and models which are suitable for temperature measurement in various scenarios. These sensors all use MEMS thermopile chips, which have the characterstics of hion sensitivity and high precision NTC. and are wicely used in medica temperature measurement, home appliance temperature measurement industrial temperature measurement and consumer electronics.

Features

- MEMS thermopile chips
- TO-39 Package
- High sensitivity
- 8~14um bandpass filter
- High precision NTC

Application Scene

- Non-contact temperature measurement
- Pyrometer
- Continuous monitoring of manufacturing temperature
- Industrial temperature transmitter



- DS Ratio 1:1

Model MTP10-A6F8



- DS Ratio 8:1

Model MTP10-A6L5.5



- DS Ratio 10:1

Model MTP10-A6L10.6

Performance parameters

Parameter	Value	Unit	Conditions
Chip Size	1.8*1.8	mm^2	
Sensitive Area	1.35*1.35	mm^2	
Field of View	62	°	at 50 % intensity points
Thermopile Resistance	43 ±10%	kΩ	Temp=25°C
Noise Voltage	27 ±2	$nV/Hz^{1/2}$	Temp=25°C
NEP	0.62	$nW/Hz^{1/2}$	500K,1Hz
Responsivity	9	V/W	500K,5.5um(LWP)
Temp Coefficient of Resistance	0.1	%/°C	25°C/50°C
Time Constant	32	ms	
Specific Detectivity	6.8E+07	$cmHz^{1/2}/W$	500K,1Hz
Thermistor Resistance	100 ±3%	kΩ	25°C
Thermistor BETA-Value	3950 ±1%	K	25°C/50°C





PM2.5 Dust Sensor

PM2.5 dust sensor can be divided into laser dust sensor and infrared dust sensor according to the working prnciple. Has developed diferent models and specifications of PM2.5 dust sensors according to the needs of different devices. They are suitable for resh air system, smart home. PM2.5 detection and in-vehicle air aualitvy purification and other fields.

Performance parameters

Parameter	Index	Unit
Types of particulate matter Detection	PM1.0, PM2.5, PM10	
Particle size range	0.3-10	μm
Mass concentration range of	1-1000	$μg/m^3$
Mass concentration range of	1	$μg/m^3$
Consistency of particulate mass concentration (PM2.5 standard value)	±10% (@100-500$μg/m^3$) ±10$μg/m^3$(@0-100$μg/m^3$)	
Single response time	≤1	s
Dc supply voltage	≤10	s
Working Current	Typ5.0 Min: 45 Max:55	V
Standby Current	≤85	mA
Data interface level	≤45	μA
storage temperature range	L<0.8 (@3.3); H>2.7(@3.3)	°C
Thermistor BETA-Value	-30~+70	°C
Working temperature range	-10~+60	
Working humidity range	0~99%RH (Non congeal)	Y
Mean time ofno barrier	≥3	
Output mode	UART/IIC/PWM	
Boundary dimension	37.8*34.811.8mm(LxWxH)	mm



Model PM-10



Model PM-12



Model PM-14

Feature

- Real-time monitoring output
- Quick response, Slim Design
- Small size and easy for installation
- Varied optional styles, good adaptation

Application Field

- Intelligent Appliance
- central ventilation system
- PM2.5 Detector
- Industrial dust detection





Automobile NDIR Gas Sensor

Nondispersive infrared (NDIR) gas sensor is one of the most closely related commercial sensors with optical sensors, is by incident infrared caused by the molecular vibration of the object gas, using it sability to absorb specific wavelength infrared properties to detect the gas and calculate its concentration. Automobile NDIR gas sensor has the characteristics of low power consumption, long life, stable signal, accurate measurement and no oxidation dependence. It can be used to evaluate automobile exhaust and measure air quality.

PM-10 Auto Automobile CO_2 Sensor





Features

- High measurement accuracy, stable andreliable performance
- Built-in pressure compensation,temperature compensation
- Quick response
- Long service life
- Support LIN or CAN output
- Protection class up to IP55

Application field

- In-vehicle environment detection
- Biological legacy detection invehicle
- Fresh air control in the car
- Battery thermal runaway gasmonitoring

Performance parameters

Detection gas type	0~10000ppm (0~1%) and can be 0 ~ 50000ppm (0~ 5%)
Detect range	+50ppm+5%RD
Detection accuracy	<1%FS/year
Stability	Run the operation for about 1min, and reach theperformance for about 5min
Preheat time	T_{90} <25s
Response time	8 ~ 18V DC，Power Allowable Ripple: Vp-ps60mV
Operating Voltage	Averages20mA@12V, Peaks65mA@12V
Working current	-40°C ~+105°C; 0~95%RH (no condensation)
Working environment	≥12year
Lifespan	≤45

PM-11 Auto Automobile CO_2 Sensor







Features

- NDIR detection principle
- Short warm-up time
- High sensitivity, high precision
- 400~10000ppm wide detect range design
- Low power consumption, long service life
- Advanced temperature compensation andautomatic calibration algorithm

Application field

- Automobile air conditioning system
- Air quality monitoring equipment
- Fresh air system
- Air purification equipment

Performance parameters

Measuring concentration range	400~10000ppm
Detection principle	NDIR
Measurement interval	2s
Detection accuracy	(50ppm + 5%)
Response time	T_{90} time is 90S
Communication Interface	UART
Working conditions	-30~+85°C，0~95%RH (no condensation)
Storage temperature	40~95°C
Supply voltage	DC 4.2V~5.5V
Average workingcurrent	13mA
Lifespan	≥10 years

Infrared temperature transmitter

The MEMS infrared thermopile temperature sensor is used to measure the area temperature, and the measured temperature value is used to identify the heat source information in the area, and output stable temperature value and heat source information at the same time.

Features

- Non-contact temperature measurement
- Millisecond response time
- Covers a wider range of temperature measurements
- Longer life and durability

Application scene

- Thermoelectric chemical
- Pipe temperature measurement
- Coal steel
- Asphalt temperature measurement

Performance parameters

Ambient temperature	0-60°C
Storage temperature	-20~80°C
Relative humidity	10-95% (No condensation)
Material	Stainless steel
Cable length	1.5m (Standard) Other special Featuress (Customize)
Working power	8-32 VDC
Output signal	0~5V/0~10V/4~20mA/RS485/K Type Thermocouple
Spectral range	8-14 um
Optical resolution	15:1
Response time	300 ms (95°C)
Temperature range	0-100°C/ 0-200°C/ 0-300°C/ 0-400°C/ 0-500°0-600°C/ 0-800°C/ 0-1000°C/0-1200°C
Temperature measurementaccuracy	+2% or +2°C of measured value. take the larger value +3% or +3°C of measured value. take the larger value
Repeatability	+1% or +1.5°C of measured value take the largervalue
Emissivity	Preset 0.95 (Adjustable by software)



- DS Ratio 15:1

Model MIT80-15



- DS Ratio 20:1

Model MIT80-20



NDIR CO2 Sensor Module

Feature

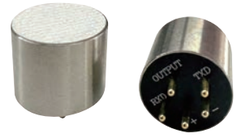
- Standard size, small integration
- Explosion-proof design, contantcurrent design
- Digital signal output
- Linear analog signal output

Application Fields

- Safety protection
- Storage and transportation
- Petrochemical engineering
- Pipeline Monitoring

Performance parameters

Detection gas type	carbon dioxide (CO_2)
Detection accuracy	0~0.2%: ±0.03;0~1%:+0.04: 0~5%: ±(0.05 + actual value 5%) 0~20%: ± (0.05 +actual value 6%)
Resolution	0~0.2%: 20ppm; 0~1%: 50ppm; 0~5%: 100ppm; 0~20%: 0.05%
Response time	T_{90}25S (environment temperature 20°C)
Zero point repeatability	+2%FSD (environment temperature 20°C)
Sensitivity repeatability	+2%FSD (environment temperature 20°C)
Long-term drift	+1%FSD/month (environment temperature 20°C)
Boot stabilization time	60S
Input voltage	3.2~5.5V DC typ:3.3VDC
Input Current	70~80mA; typ:75mA
Lifespan	> 5 years
Weight	15g



Model MPY20-CO_2



Pyroelectric Gas Sensors



Features

- Voltage mode, simple structure
- Large viewing angle, wide detection range;
- Thermal compensation chip, effectively reducingnoise interference
- Ultra-thin lithium tantalate chip, integrated OpAmp, high response rate
- Nitrogen package, high stability

Application field

- Gas analysis
- Medical industry
- Home electronics
- Industrial production

Performance parameters

Package form	TO39
Model	voltage mode
Window size	2.65x2.40 mm
Sensitive element size	1.6x1.6 mm
Thermal time constant	150 ms
Feedback resistor	60 GΩ
Recommended voltage	3~5V
Voltage response rate (nowindow)Rv(500K,10Hz,25°C)	≥300 V/W
Noise density (10Hz,BW1Hz,25°C)	<150 nV/$Hz^{1/2}$
Specific detection rate (withoutwindow) (D*500K,10HZBW1Hz,25°C)	4.5x 10^{8} cm·$Hz^{1/2}$/W
Optimum output load	47 kΩ
Field of view	≥110°
Working/storage temperature	-40~+80°C

MEMS Thermopile Gas Sensor



Model MPY20-A6-SF_6



Model MPY20-A6-SF_6 (Round Window)



Features

- MEMS Thermopile Element
- TO-39 Package (Dual Channel)
- 10.60/3.95um NBP Filter
- High Sensitivity
- High Accuracy NTC

Application scene

- NDIR SFGas Detection
- Power Equipment Satefy Monitoring
- Industrial Process Control
- Electrical Power System

Performance parameters

Parameter	Value	Unit	Conditions
Chip Size	1.8*1.8	mm^2	
Sensitive Area	1.35*1.35	mm^2	
Thermopile Resistance	43 ±10%	kΩ	Temp=25°C
Noise Voltage	27 ±2	nV/$Hz^{1/2}$	Temp=25°C
NEP	0.62	nW/$Hz^{1/2}$	500K, 1Hz
Responsivity	43	V/W	500K,5.5um(LWP)
Temp Coefficient of Resistance	0.1	%/°C	25°C/50°C
Time Constant	32	ms	
Specific Detectivity	6.8E+07	cm$Hz^{1/2}$/W	500K,1Hz
Thermistor Resistance	100 ±3%	kΩ	25°C
Thermistor BETA-Value	3950 ±1%	K	25°C/50°C

IR-M8 Non-contact Infrared Remote Temperature Measurement Module

It is a non-contact infrared remote temperature measurement module, integrating thermopile infrared sensor and 24 bit A/D converter, equipped with low-noise amplifier and other components, and carries out digital output through UART interface. It can realize the remote non-contact temperature measurement in the temperature range of 0°C~50°C and 50 cm.

The temperature measurement accuracy of body temperature 35°C~42°C can reach ± 0.5°C.



Model IR-M8

Specifications

Measurement Range	0 to 50°C
Temperature measuring distance	0~50cm
Resolution	0.1 °C
Temperature measurement accuracy	± 0.5 at 35 to 42°C
Input working voltage	DC12V
Interface pin	The communication mode of this module is UART :12V TX RX GND



Size(HxWxD): 155mm x 65mm x 35mm **Weight:** 130g
Accessories: blister packaging

IRM-32 32x32 Infrared Temperature Measurement Module

Specifications

Communication port	serial port USART
Temperature range	35°C~42°C
Measurement accuracy	±0.2°C
Temperature measuring distance	0.3~2.0 m
Relative humidity	0%~90%
Operating temperature	0~50 degrees
Storage temperature	-20 to 60°C (-4 to 140°F)
Infrared sensing	32 x 32 pixel
View Angle	33° x 33°
Infrared band	8 to 14μm
Waterproof class	IP65

Pin Definition

Pin	Pin definition	function description
1	VDD	power supply: 5 to 12V
2	GND	ground
3	TX	USART send
4	RX	USART receive





Model IRM-32

LDM-PEEK80 Industrial-Grade Laser Ranging Sensor

Industrial-grade laser ranging sensor meets the rapid test needs of various complex application environments, suitable for rapid measurement of uncoordinated targets and outdoor distance measurement in strong light environment, with high reliability and stable performance.

Specifications

Measuring range (favorable conditions)	0.05 to 100 m
Measuring range (unfavorable conditions)	60m
Measuring accuracy (favorable conditions)	±1.5 mm (95 % level of confidence)
Laser Class	Class III
Laser Type	635 nm, <5mW
Laser beam diameter at 77 °F (25 °C) approx. – at 33 ft (10 m) distance	 8mm C)
– at 165 ft (50 m) distance	40mm C)
– at 328 ft (100 m) distance	60mm C)
RS232	√
Dust Protect/ Splash proof	IP 68
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Power supply	12VDC 0.2mA



Model LDM-PEEK80



Size(HxWxD): 155mm x 65mm x 35mm **Weight:** 130g
Accessories: blister packaging

WRNM-1503


WRNM-1501


WRN-01D


WRN-01CF


WRN-01BF


WRF-02BLJ

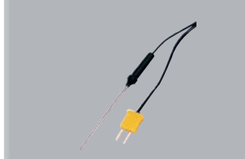

TP-250

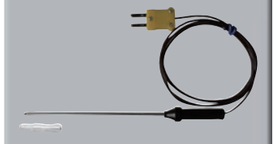

TP-200


NR-886B

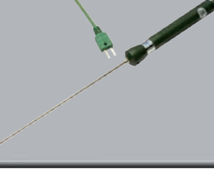

TP-300


TCP-100


TP-500


TP-304


NR-34A


NR-34B


NR-38


NR-31B


NR-33


2K-106


FC-92


FC-A23B

Specification：900mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-170A

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-28-A

Diameter：Φ4mm
CAT III 1000V
5A

TP-150


CF-735750

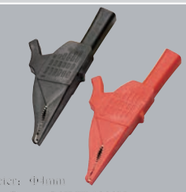
Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：16A

CF-735680

Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

CF-735650-1

Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT II 1000V
Current Rate：10A

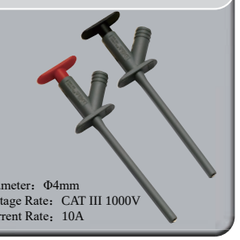
CF-735420

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：PEAK MAX

CF-735140

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

SC-9905

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

CF-734770-A

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

CF-733781

Specification：500mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

CF-733760

Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：16A

CF-732280-A

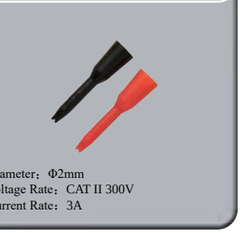
Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT II 1000V
Current Rate：8A

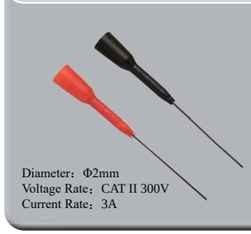
TL-901

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

TL-204

Diameter：Φ4mm
Voltage Rate：CAT II 1000V / CAT III 600V
Current Rate：10A

CF-733783

Diameter：Φ2mm
Voltage Rate：CAT II 300V
Current Rate：3A

CF-733784

Diameter：Φ2mm
Voltage Rate：CAT II 300V
Current Rate：3A

SD-9830

Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

SD-9829

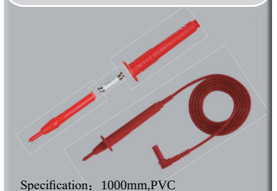
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

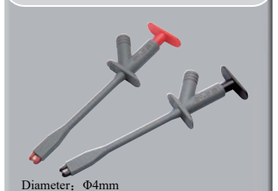
FC-300

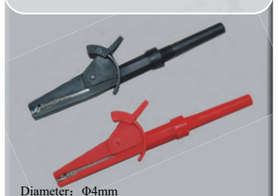
Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

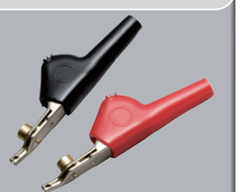
CF-735180-1

Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V

FC-735180

Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V

CF-734760

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

CF-735000

Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：10A

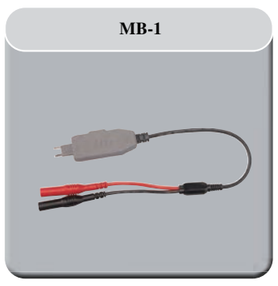
CF-732280

Voltage Rate：30V AC / 60V DC
Current Rate：8A

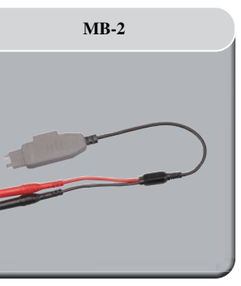
FC-A26

Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：10A

CF-734990

Diameter：Φ4mm
Voltage Rate：CAT II 300V
Current Rate：5A

MB-1


MB-2


MB-3


MB-8


FC-98A

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

TL-88-1

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

TL-88-4

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

TL-99-1

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-96B

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-108

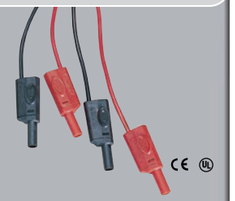
Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-138

Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：10A

FC-136

Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-49


FC-209D

Specification：1200mm,PVC
Diameter：Φ4mm
CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-107

Specification：1200mm,PVC
Diameter：Φ4mm
CAT III 1000V
Current Rate：10A

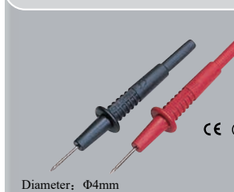
FC-204

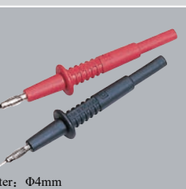

FC-178A

Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-106

Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：10A

FC-105A

Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：10A

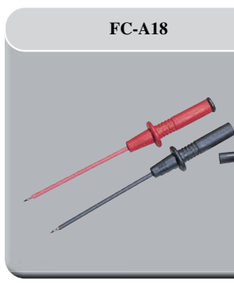
FC-105

Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：10A

FC-109

Diameter：Φ4mm
Voltage Rate：CAT II 300V
Current Rate：5A

FC-210

Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-A18


FC-A17


FC-206

Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-28

Diameter：Φ4mm
Voltage Rate：CAT II 1000V
Current Rate：5A

FC-A24

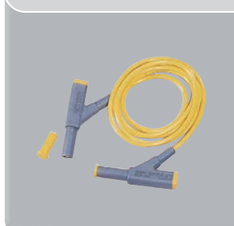

FC-A23

Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-209C

Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

FC-6R


FC-6Y


FC-A31

FC-A12
FC-A30

SD-9904



Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：5000VDC Hands-Free,
70VDC Handheld
Current Rate：15A Max

SD-9903B



Specification：1000mm,PVC
Voltage Rate：CAT III 1000V
Current Rate：10A MAX

SD-9903A



Specification：1000mm,PVC
Voltage Rate：CAT III 1000V
Current Rate：10A MAX

SD-9902



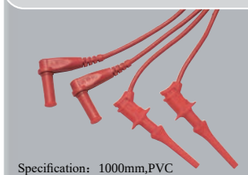
Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：150V DC
Current Rate：5A MAX

SD-9828



Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

SD-9826B



Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT II 300V
Current Rate：5A

SD-9826A



Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT II 300V
Current Rate：5A

FC-A23C



Specification：900mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-A15



Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

FC-209



Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

TL-118B



Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V / CAT IV 600V
Current Rate：10A

CP-20



SD-9901



Specification：1000mm,PVC
Voltage Rate：150V DC
Current Rate：5A MAX

SD-9831



Specification：1200mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

CF-735750



Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：16A

CF-735130



Specification：1000mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT III 600V
Current Rate：6A

SP-1



SP-3



TR-1



TR-72



USB-8852



BNC-1011



M-129



M-125



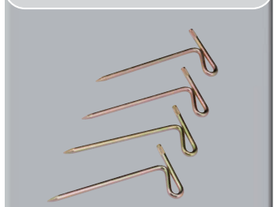
FC-732700



TL-601



M-530



TL-533



Specification：15300mm,PVC
Diameter：Φ4mm
Voltage Rate：CAT II 300V

TL-905



Diameter：Φ4mm
Voltage Rate：CAT III 1000V
Current Rate：10A

TL-532

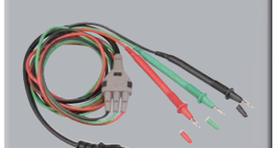


Diameter：Φ4mm
Voltage Rate：CAT II 300V
Current Rate：5A

TL-531



TL-534



F-0.2A/250V



F-0.5A/250V



F-10A/250V



F-10A/250V



F-500mA/1000V



F-10A/1000V



F-800mA/600V



F-200mA/600V

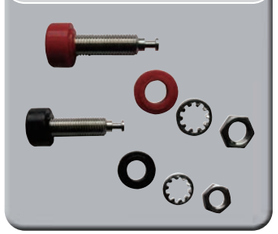


TL-210

Specification：610mm,PVC
Voltage Rate：300V CAT II
Current Rate：5A

TL-A014

Diameter：Φ4mm
Voltage Rate：Hand-held ratings – 30 VAC/60 DVC MAX.Hand free ratings – 2500 working VDC
Current Rate：15A

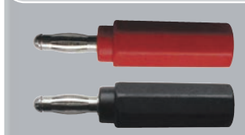
TL-A015-1


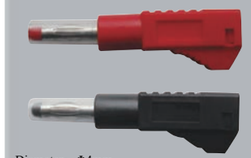
TL-A012

Diameter：Φ4mm
Voltage Rate：2500 Vrms Max.For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc
Current Rate：15A

TL-A011

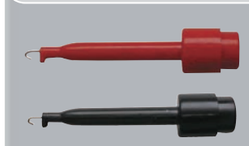
Diameter：Φ4mm
Voltage Rate：5000 Vrms Max. For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc
Current Rate：15A

TL-A005

Diameter：Φ4mm
Voltage Rate：600 Vrms For CE compliance: not intended for hand held use at voltage above 33 Vrms / 70 Vdc
Current Rate：20A

TL-A001

Diameter：Φ4mm
Voltage Rate：1500 VRMS per CATII 300V
Current Rate：20A

TL-A003

Diameter：Φ4mm
Voltage Rate：1000 V CAT III
Current Rate：24A

TL-A024B

Voltage Rate：30 VAC/60 VDC Max for hand-held 300 VDC Max for hand free
Current Rate：5A

TL-B001

Specification：50 Ohms
Diameter：BNC
Voltage Rate：500 V CAT I / 150 V CAT II
Current Rate：3A

TL-B011

Specification：50 Ohms
Diameter：BNC
Voltage Rate：Shield/Earth: 30 VAC / 60 VDC MaxInner conductor/Shield: 500 Vrms Max

TL-B003

Diameter：BNC / Φ4mm
Voltage Rate：500 V CAT I / 150 V CAT II
Current Rate：3A

TL-207

Specification：610mm,PVC
Voltage Rate：300V CAT II
Current Rate：5A

TL-208

Specification：610mm,PVC
Voltage Rate：300V CAT II
Current Rate：5A

TL-B008

Specification：50 Ohms
Diameter：BNC / Φ4mm
Voltage Rate：500 Vrms Max 30 VAC / 60 VDC Max for hand-held

TL-B009

Specification：50 Ohms
Diameter：BNC / Φ4mm
Voltage Rate：500 Vrms Max 30 VAC / 60 VDC Max for hand-held

TL-B010

Specification：50 Ohms
Diameter：BNC / Φ4mm
Voltage Rate：500 Vrms Max 30 VAC / 60 VDC Max for hand-held

TL-213

Diameter：Φ4mm
Voltage Rate：300 Vrms/DC
Current Rate：5A

TL-214

Specification：50 Ohms for BNC
Diameter：BNC
300 Vrms

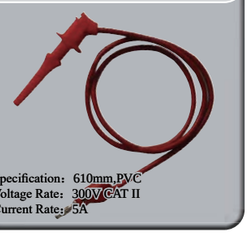
TP-301


TL-206

Specification：1200mm
Voltage Rate：CAT III 1000
Current Rate：10A

TL-211

Specification：610mm,PVC
Voltage Rate：300V CAT II
Current Rate：5A

TL-212

Specification：610mm,PVC
Voltage Rate：300V CAT II
Current Rate：5A

TL-209

Specification：610mm,PVC
Voltage Rate：300V CAT II
Current Rate：5A

AD-2


TL-A021

Diameter：Φ4mm
Voltage Rate：CAT III 1000
Current Rate：20A

TL-217


HD-02


HC-150


HC-8920


C-68


BG-01


ER-5003


ER-5005


ER-5001B


SG-0044-1


SG-0331-1


SG-71006BF-1


EC-2001C-20


EC-2001C-8


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