

Low Voltage  
Installation

**Megger**<sup>®</sup>



Reliable testing tools to  
help electricians to test  
faster and work smarter

**EN**  
ENGLISH



# Speed up your LV installation with rugged electrical testers from the industry leader

Contract and in-house electrical engineers are working under severe time pressure. Comprehensive final testing is essential before sign-off but must be rapid so you can move on quickly to the next job. Fast and efficient testing saves time on installation, diagnosis and repair.

Megger instruments have easy, guided operation for precise low-voltage testing in homes, offices and factories. Safety is in-built: there's overvoltage and overcurrent protection, wrong-connection alerts and other key safeguards. The instruments are rugged and durable, and withstand being transported from site to site.

## Meet local regulations and certifications

We can advise best practice to give even relatively inexperienced engineers the confidence to meet local regulations and certifications. We help develop your skills in renewables energy transitioning for testing Electric Vehicle charge points and the entire installations of PhotoVoltaic systems.

We are global allies for all your testing needs and stay up to date on industry developments. From this position, we can help whether you are a service or maintenance manager overseeing complex electrical installations, or a domestic electrician ensuring home safety.

## A trusted innovator and global partner

Megger is renowned as a true innovator of measurement and test equipment for electrical energy transmission – from power plant right through to socket. And we have a long pedigree – our famous crank inductor has been synonymous with accurate insulation measurement for generations of electrical engineers.

We have many groundbreaking instruments like insulation testers, micro-ohmmeters and multimeters. Each successive generation undergoes a systematic evolution by building in feedback from our global users to improve safety, reliability and economy. That has established us as one of the largest and most trusted suppliers of electrical test technology.

Our global headquarters are based in Dover, UK, and we have other manufacturing sites across Europe, USA and India.

## Widest range of measuring and test instruments

We are industry leaders with by far the longest tradition and the widest range of measuring and testing products: our portfolio now includes over 100 instruments and accessories. And the key technologies and patents that form the basis for our current success also pave the way for future innovations.

Our flagship MFT-X1 multifunction tester for example performs multiple complex diagnostic tests, with clear display and test results ensuring ease of use. We also offer CertSuite certification software, with CertSuite Installation versions generating installation certificates. CertSuite PAT provides PAT certification, and also enables you to use your mobile device to remotely control the tests.

This catalog covers our multifunction testers and accessories, EV charge point and PV testers, digital multimeters and clamp meters, insulation testers, and much much more. If you're looking to speed up your LV installation testing, you can count on Megger Instruments.



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# Multifunction Testers for Installation Certification

The MFT multifunction installation testers offer a comprehensive range of high-performance instruments tailored for electrical contractors. Our cutting-edge MFT-X1 has rapid battery swaps, TrueLoop™ technology, and full EV charge point testing capabilities. The versatile MFT1800 series has advanced

insulation testing, automated RCD features, and industrial-grade options like phase rotation testing in the MFT1825. These testers are built to enhance productivity and ensure reliable results when testing the safety and operation of low voltage installations.





## MFT-X1

## ULTIMATE EFFICIENCY FOR INSTALLATION TESTING

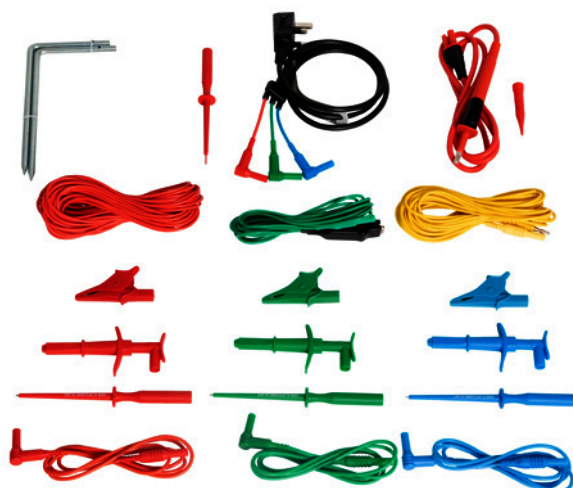
### Multifunction installation tester

**Best for:** Electricians who want to simplify complex testing, reduce downtime, and complete jobs faster to ensure accurate and compliant results every time.

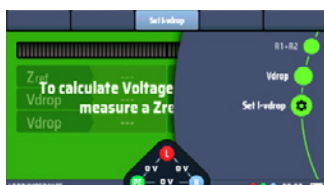
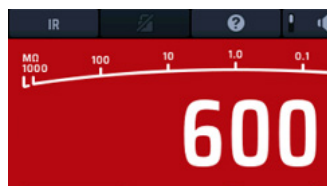
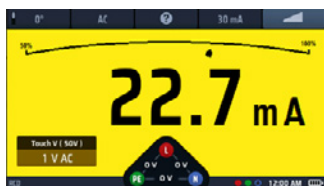
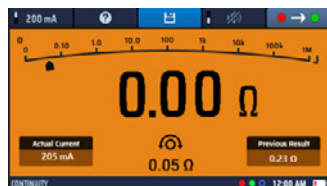
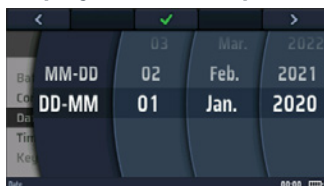
The MFT-X1 is a high-performance multifunction tester designed to improve productivity for electrical contractors. It combines efficient testing, reliable results, and advanced features to streamline the testing and certification process.

- No interruptions with rapid tool-free battery swap
- Dependable loop test results with TrueLoop™ and Confidence Meter™ technology
- Time-saving automated RCD testing
- Complete EV charge point test solution when used with EVCA210 or EVX100 adaptor
- Safety designed in
- Future-proofed with in-field firmware upgrades to remain fully compliant with regulations and standards
- Seamless integration with CertSuite Installation for streamlined reporting and certification

**Accessories included:** Switched test probe SP5, Red, Blue and Green test leads, probes, clips and grabbers, Li-ION battery 4400 mAh, Li-ION battery charger, Neck strap, Multipurpose hard base carry case, Quick start guide, Calibration certificate.



### Display Mode examples



# Multifunction Testers for Installation Certification

The versatile and reliable MFT1800 series offers comprehensive features to meet diverse testing needs, making it ideal for

electrical contractors who need dependable performance across various applications.



## MFT1815

### RELIABLE TESTING WITH ESSENTIAL FEATURES

#### Multifunction installation tester

**Best for:** Electricians who need a user-friendly tester with non-trip loop testing, insulation tests up to 1 kV, and automated RCD testing for everyday installation work.

- User-friendly with a bright dual-parameter LCD display for clear readings in any environment
- Convenient non-trip loop testing
- Exceptional versatility with insulation tests up to 1 kV
- Automated RCD testing saves time
- Test 10 mA and programmable RCDs
- Safety-focused design
- Fully compliant with standards and regulations
- Compatible with CertSuite Installation for efficient reporting and certification

**Accessories included:** Printed quick start guide, calibration certificate, switch probe SP5, shoulder strap embroidered with Megger logo, lead set with probes and crocodile clips, European test lead SIA45 (not AU), measuring cable with AU/NZ connector (AU only), AC charger, MFT carrying case.



## MFT1825

### ADVANCED TESTING FOR INDUSTRIAL

#### Multifunction installation tester

**Best for:** Electrical professionals working in industrial settings who require phase rotation testing, three-phase RCD testing, and the ability to measure earth electrode resistance.

All the benefits of the MFT1815 plus:

- Enhanced functions for industrial applications with phase rotation and three-phase RCD testing
- Convenient current measurement with optional Megger MCC1010 clamp
- Test pure DC Type B RCDs
- Measure earth electrode resistance (with accessories)





	MFT1815	MFT1825	MFT-X1
<b>Insulation measurement</b>			
100 V		■	■
250 V	■	■	■
500 V	■	■	■
1000 V	■	■	■
Test voltage display	■	■	■
Acoustic signal adjustable		■	■
<b>Continuity and resistance measurement</b>			
200 mA Test current	■	■	■
15 mA Test		■	■
Measurement line compensation	■	■	■
Acoustic signal adjustable	■	■	■
Continuity test with automatic polarity reversal			■
<b>Loop impedance measurement</b>			
True Loop™ measurement feature			■
3-wire test without RCD tripping (L-N-PE)	■	■	■
2-wire test without RCD tripping (L-PE)	■	■	■
2-wire test with high current (L-L and L-N)	■	■	■ (Resolution 0,001 Ohm)
2-wire test outer conductor-outer conductor (L-L)	■	■	■
Display Short circuit current up to 20 kA	■	■	■ (up to 50 kV)
<b>RCD audit</b>			
1/2 x IΔN RCD	■	■	■
1 x IΔN RCD	■	■	■
2 x IΔN RCD			■
5 x IΔN RCD	■	■	■
Auto RCD check	■	■	■
Ramp Test	■	■	■
Type AC (standard) RCDs	■	■	■
Type A (DC pulse) RCDs	■	■	■
Type S (selective) RCDs	■	■	■
Type B/B+ (sensitive to universal current) RCD			■
EV RCD			■
Programmable and 3-phase RCD test		■	■ + Autosequences
Display of the touch voltage	■	■	■
Contact voltage limit value setting 25/50 V	■	■	■
RCD tests 2-pole without N or PE	■	■	■
Testing with reversed polarity possible			■
10 mA RCD		■	■
30 mA RCD	■	■	■
100 mA RCD	■	■	■
300 mA RCD	■	■	■
500 mA RCD	■	■	■
1000 mA RCD		■	■
<b>Earth measurements</b>			
Earth measurements 2-pole or 3-pole			■
Earth measurements with 1 current clamp (ART)			■
Earthing measurements with 2 current clamp. (ground loop)			■
Measuring voltage limit value setting 25/50 V			■
<b>Other functions</b>			
New operating system update via microSD card			■
Voltage measurement (L-N, L-PE, N-PE)			■ (AC/DC)
Frequency measurement	■	■	■
Current measurement, with MCC1010 Clamp		■	■
Phase Rotation Display		■	■
Voltage drop measurement			■
Illuminated LC display	■	■	■
Automatic switch-off (Auto-Power-Off)	■	■	■
Calibration certificate included in delivery	■	■	■
Operation with batteries or rechargeable batteries (NiMH)	■	■	■
Li-Ion rechargeable batteries included			■
Internal measured value memory, Bluetooth® download			■
Optional software (CertSuite™ Software compatible)			■
Megger Cloud Software + App			■

# Accessories for Multifunction testers



## LA-KIT

### Lamp adaptor kit

The Megger LA-KIT gives you five separate lamp socket adaptors to connect electrical test equipment to the circuit via industry standard 4-mm sockets. This means you can measure and test without disturbing the circuit wiring or lamp housing.

- 5 most common lamp adaptors
- Allows easy testing at the lamp sockets
- IEC61010 compliant
- Carry case
- 2-wire lead set



## NiMH Battery Pack

The MFT-X1's replaceable battery gives uninterrupted testing, allowing you to quickly swap out the battery in the field without delays. Designed for efficiency, this tool-free battery replacement keeps electricians working without downtime, making it ideal for demanding testing environments where speed and reliability matter.

The MVC1010 and MCC1010 clamps give accurate AC current measurements up to 1000 A with a 1000:1 step-down ratio. They feature 0.3% error, 0.7° phase shift, and robust overvoltage protection for power, energy, and quality applications. They also support CAT IV 600 V rating and require a 1  $\Omega$  burden resistance for safe operation.



## MVC1010 (VCLAMP)

### Voltage Clamp

CAT IV 600 V



## MCC1010 (ICLAMP)

### Current Clamp

CAT IV 600 V



These compact and durable 30- or 50-metre extension test leads enable direct R2 measurements, eliminating the need for R1 + R2 calculations. They simplify verifying the circuit's furthest points and checking earth integrity before energizing.



### **XTL50**

Extended Test Lead (50 m)

### **XTL30**

Extended Test Lead (30 m)



## **Earth Test Cables, Spikes & Clamps Kit**

### **Earth measuring cables**

The Megger ETK - Earth Test Kit is a practical accessory for earth electrode testing and soil resistivity surveys. Compatible with Megger DET2, DET3, DET4, and MFT models, it features easy-wind reels, earth test spikes, and a durable holdall bag for transport. A tape measure ensures precise spike placement, and reels can be daisy-chained for extended testing. Designed for efficiency, the ETK kit makes testing quick, easy, and reliable.



## **MTB7671/2**

### **Megger Test Box**

The MTB7671/2 instrument test box ensures the continued accuracy and performance of electrical testers between calibrations by checking all key functions. That includes insulation, continuity, loop, PFC, RCD, and voltage measurements. It provides simple pass/fail results to confirm compliance with the relevant standards.

# CertSuite Installation software



CertSuite is perfect for individuals and large business owners and gives you everything you need to create high quality certificates quickly and easily.

CertSuite provides a wide range of certificates including electric vehicle, solar, fire alarms, emergency lighting.



## EASY TO OPERATE

Packed with functions that save you time - such as selecting default settings and copying previously created distributions and circuits.



## MULTIPLE USERS

Different members of your team can work on the same task at the same time.



## WORKS ON ANY DEVICE

App for iOS and Android, browser compatible on laptops and desktops.



## CLOUD STORAGE

Store your data in the cloud and access it wherever you are.



## ONLINE OR OFFLINE

CertSuite works offline and sends your data to the cloud the next time you have an internet connection.



## EMBED PHOTOS

Take photos and attach them to your reports.



# Certificates

## Electrical Certification

- Electrical Installation Condition Report (EICR)
- Electrical Installation Certificate (EIC)
- Minor Electrical Works Multiple Circuits
- Minor Electrical Works Single Circuit
- Minor Electrical Works Amendment 1
- Electrical Danger Report

## Electric Vehicle Charging

- Electric Vehicle Charging Installation Certificate
- Electric Vehicle Charging Installation Condition Report

## Photovoltaic

- Solar Photovoltaic Inspection Report

## Emergency Lighting

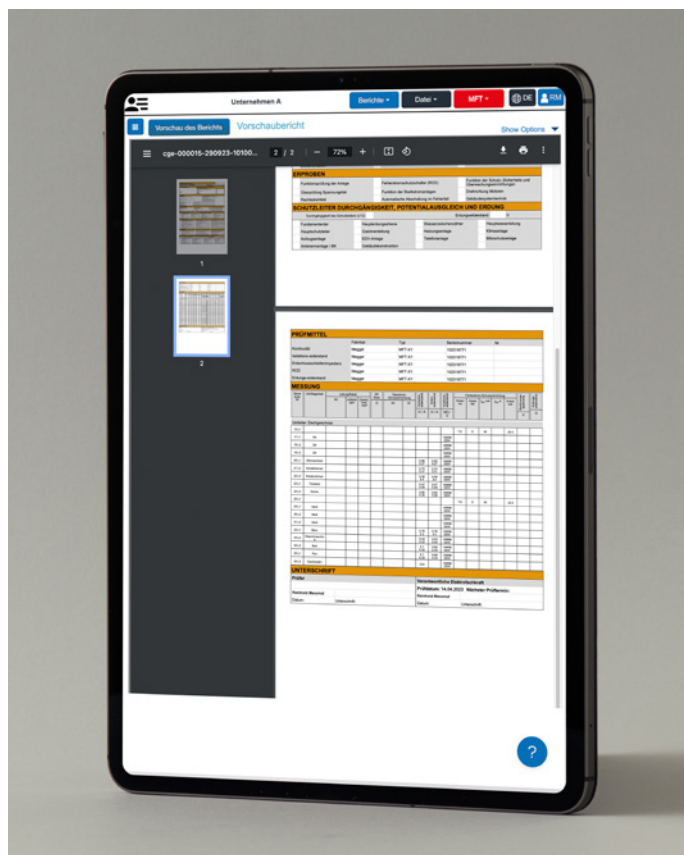
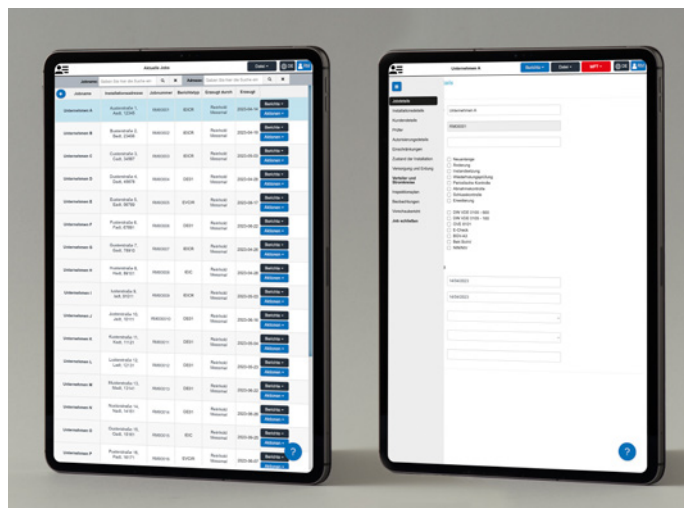
- Emergency Lighting Completion Certificate
- Emergency Lighting Inspection and Test Certificate

## Fan Maintenance

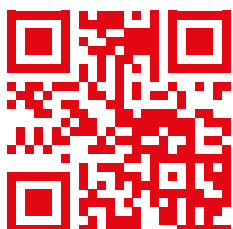
- Fan Maintenance and Inspection Report

## Fire Reports

- Fire Alarm Installation Certificate
- Fire Alarm Inspection Report Extended
- Fire Alarm Verification Certificate
- Fire Alarm Acceptance Certificate
- Fire Alarm Modification Certificate
- Fire Alarm Inspection Certificate



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For help visit: **Certsuite.app**  
or contact Megger by email:  
**software@megger.com**

# EV Charge Point Testing

Ensure safety and compliance with comprehensive EV charge point testing for both installation certification and routine maintenance. Our multifunction testers, when paired with the EVCA210 or EVX100 adaptors, provide complete testing for verifying the safety and functionality of electric vehicle charge points. From automated RCD testing to advanced

loop tests, these tools streamline the certification process, ensuring installations meet regulatory standards. For ongoing maintenance, the EVCC300 helps contractors perform essential checks to guarantee long-term reliability and safety, making them ideal for the growing EV infrastructure.



## EVX100

### SIMPLIFYING EV CHARGER TESTING

#### Test adapter for EV charging points

**Best for:** Electricians who want to speed up and simplify EV charger testing with automated sequences, guided testing, and built-in fault detection to ensure safe and efficient installations.

The EVX100 is a fully integrated adaptor for the MFT-X1, to simplify the testing of single- and three-phase Mode 3 AC EV chargers. It offers an automated configuration of the MFT-X1 interface and guided testing sequences, enabling seamless testing of EV chargers. The EVX100 identifies Proximity Pilot (PP) and Control Pilot (CP) states, handles PE warnings, and automates RCD and protective device testing. That makes installation verification and servicing of EV chargers straightforward.

- Integrated design provides automated configuration of the MFT-X1 interface for EV charger testing
- Supports single- and three-phase testing for Mode 3 EVSE chargers
- Automatically identifies CP states (A, B, C, D) and PE issues
- Simplifies RCD and RDC testing with automatic EV charger reset
- Powered by a lithium-ion battery with USB-C charging
- IP54 rating for challenging weather conditions







## EVCA210

### RELIABLE COMPLIANCE

#### Test adaptor for EV charging points

**Best for:** Electricians who are performing EV charge point testing using a different multifunction tester to the MFT-X1

The EVCA210 Electric Vehicle Charge Point Adaptor is compact and easy to use for testing Mode 3 AC EV charge points. It complies with UK, European, and international standards and supports both single- and three-phase testing. It ensures the function and safety of charging points to IEC/EN 61851-1 and IEC/HD 60364-7-722. The adaptor simulates a vehicle connection, allowing full testing through Proximity and Control Pilot states. It also includes a PE Pre-Test feature to check for dangerous voltages, ensuring safe operation before proceeding with further tests.

- Type 2 Charging Plug for charging points with panel mounted socket outlet or fixed cable with vehicle connector
- Type 1 Charging Plug for charging points with fixed cable and vehicle connector
- CAT II 300 V rated
- Comes with carrying case
- Complies with Low Voltage Directive LVD 2014/35



## EVCC300

### QUICK AND EASY SAFETY CHECKS

#### Electric vehicle charger checker

**Best for:** Maintenance teams and repair technicians who need a fast, all-in-one tool to check the safety and operation of EV chargers as part of routine inspections or post-repair validation.

The EVCC300 gives you a convenient way of checking EV charge points. This simple all-in-one solution checks the safety and operation of mode 2 and single-phase mode 3 (level 1 and two-phase level 2) EV chargers. The instrument is ideal for fault finding checks on an EV charger following manufacture or repair, or just as part of a routine maintenance schedule/inspection.

- Checks mode 2 and single-phase mode 3 (level 1 and two-phase level 2) chargers
- Checks chargers with SAE J1772 Type 1 and Type 2 connectors
- Performs four EV charger safety checks
- Performs four EV charger operation checks
- Checks if nuisance tripping or RCD/GFCI is likely
- Reads control pilot state response from EV Charger to IEC61852-1





# Photovoltaic Testing

Megger provides invaluable tools for professionals working with solar energy systems. Our instruments enable comprehensive testing and monitoring, identifying potential faults and ensuring compliance with safety standards. They also verify system health and measure efficiency to optimise system performance. These tools play a vital role in maximising the reliability and longevity of solar installations.







## IMT100

### PRECISION TESTING

#### Industrial Multi-tester

**Best for:** Solar professionals who need a rugged, all-in-one tester to ensure compliance, detect faults, and verify system health. That simplifies complex photovoltaic testing.

The IMT100 is a comprehensive handheld tester for photovoltaic installations, offering full IEC 62446-2 Category 1 coverage with the addition of a current clamp. It ensures accurate testing of low resistance, continuity, and insulation resistance up to 200 GΩ using two-, three-, and four-terminal methods. With a user-friendly interface, rechargeable batteries, and rugged IP54 protection, it's ideal for both rooftop use and EV testing, complying with UN EEC R100 regulations.

- Full set of detachable test leads with interchangeable clips and probes
- Guided lead setup diagrams for easy operation
- Rechargeable batteries with a mains charger kit
- DC voltage with polarity testing and AC voltage with phase rotation
- Unique resistance testing using two, three, or four terminals with a guard connection
- Data storage for up to 256 tests, downloadable via USB
- Simple rotary dial control and soft keys with a full graphic display
- Rugged IP54 housing with rubber over-moulding for shock absorption
- Complies with IEC62446 for PV testing and UN EEC R100 for EV testing
- Includes a multipurpose industrial carry case for easy portability



## PVM210

### FAST AND ACCURATE

#### Irradiance Meter

**Best for:** Solar engineers who need a compact, easy-to-use tool to optimise panel placement, measure solar power, and improve system efficiency with precise irradiance readings.

The PVM210 irradiance meter is a compact, pocket-sized tool for solar/photovoltaic engineers. It provides fast, accurate solar power measurements, helping to optimise panel positioning and calculate short-circuit currents. With a 3¾ digit LCD display, single-handed operation, and a built-in camera mount for precise readings, it's ideal for use on roofs or ladders. The PVM210 also features a measurement hold function and auto power off for convenience.

- Measures solar power for panel short-circuit calculation
- 3¾ digit LCD display with 1999 W/m<sup>2</sup> range
- Single-handed operation and pocket-sized design
- Built-in camera mount for accurate placement
- Selectable BTU measurement range
- Auto power off to conserve battery life
- Comes with a protective pouch



# Photovoltaic Testing

## Solar clamp meters

The DPM1000 and DCM1500S clamp meters offer advanced testing and monitoring for solar/photovoltaic installations, making them essential tools for technicians handling installation, maintenance, and fault-finding in solar systems.

The DPM1000 is a versatile power clamp meter that measures AC/DC voltage up to 1000 V and current up to 1000 A, perfect for assessing power quality in solar setups. It gives True RMS readings, phase rotation indication, and Bluetooth connectivity to the Megger Link app. That allows accurate real-time data logging and comprehensive monitoring of energy consumption, harmonics, and more. Rated CAT IV 600 V, it ensures safe use in high-voltage solar applications.

The DCM1500S is engineered for high-voltage solar testing,

measuring up to 2000 V DC, 1500 V AC, and 1500 A AC/DC. Compatible with the Megger Link app, it offers remote monitoring, inrush current measurement, and smart hold functionality. Equipped with PV test leads and an automatic torch in the jaws, the DCM1500S enables precise, easy measurements even in challenging environments. Its CAT IV 600 V and CAT III 1000 V ratings make it robust for a range of solar testing applications, from installation to maintenance.

Both meters offer powerful, data-driven insights that simplify compliance, safety, and efficiency in solar power systems.



## DPM1000

### REAL-TIME POWER QUALITY MONITORING

#### Power clamp with Megger Link app

**Best for:** Technicians who require accurate power quality assessment and remote monitoring of solar installations, ensuring optimal energy performance and safety.

- AC/DC Voltage to 1000 V
- AC/DC Current to 1000 A
- True RMS
- Resistance 100 kΩ
- Phase rotation indication
- Auto backlight display
- Frequency measurement
- Capacitance measurement
- Power Factor Measurement
- Measurement to 1 MW
- Harmonic measurement
- Harmonic distortion
- Diode test
- Non-contact volt alert
- Continuity beeper
- Data Hold/Min-Max/Peak Hold
- Bright LED torch
- Temperature to 1000°C
- CAT IV 600 V rating



## DCM1500S

### ADVANCED SOLAR SYSTEM DIAGNOSTICS

#### Solar clamp meter up to 2000 V DC

**Best for:** Solar professionals working with high-voltage systems who need robust, data-driven insights for installation, maintenance, and troubleshooting of photovoltaic arrays.

- 2000 V DC
- True RMS 1500 V AC
- 1500 A AC/DC
- Smart Hold
- Auto ranging
- MIN/MAX Hold
- Inrush current
- Megger Link app compatible
- CAT IV 600 V / CAT III 1000 V
- Data logger
- PV test leads with MC4PV plug



## PVK Photovoltaic Kits

Megger's range of photovoltaic kits offers essential tools for installing, commissioning, and testing solar panels. They all include a PVM210 irradiance meter for measuring solar power

and specialised PV test leads (including an adaptor for older panel types) and a protective case.



### PVK320

#### ESSENTIAL KIT FOR BASIC SOLAR TESTING

##### AVO415 Industrial Multimeter

**Best for:** Solar installers who need a simple and effective solution for measuring irradiance and verifying system safety, ensuring compliance with fundamental PV testing standards.

- CAT IV 600 V/CAT III 1000 V and engineered to withstand voltage spikes of 8.1 kV, protecting users from arc flash hazards
- Features a Variable Frequency Drive (VFD) function for accurate measurements up to 700 V
- IP67 rated for dust and waterproof protection
- Measures True RMS voltage up to 1000 V, current to 10 A, and includes resistance, continuity, frequency, and capacitance testing
- Soft case

### PVK330

#### COMPREHENSIVE KIT FOR ADVANCED PV TESTING

##### DCM340 Clamp Meter

**Best for:** Solar professionals who require a complete testing setup including advanced measurement to assess system performance, safety and efficiency.

- Measures DC and AC current and voltage up to 600 A and 600 V
- Includes resistance and continuity testing
- Features a 3½ digit, 4000 count display with backlight and a high-resolution digital bar graph
- Comes complete with test leads and carry case, and meets IEC61010 CAT III 600 V standards
- Soft case

### PVK350

#### ULTIMATE PV TESTING KIT

##### DCM1500S Clamp Meter

**Best for:** Experienced solar engineers and technicians who need a high-performance testing kit with full diagnostic capabilities for commissioning, maintenance, and troubleshooting of photovoltaic systems.

- Measures up to 2000 V DC and 1500 V AC
- Measures voltage current up to 1500 A AC or DC
- Measures resistance, diodes, capacitance, temperature, and frequency
- Can be used with the Megger Link app for remote monitoring
- Hard case

# Digital Multimeters

Our range of digital multimeters offers reliable, feature-rich electrical testing in commercial, industrial, and domestic environments. Meeting the varied needs of electrical contractors, each model combines rugged construction with specific capabilities to suit different applications, from general

maintenance to advanced troubleshooting on solar installations and production lines. Whether for simple pass/fail checks or detailed diagnostics, our multimeters help you work safely and efficiently.

**Choose the Right Multimeter for Your Needs:**

## AVO215

### COMPACT AND RELIABLE

Ideal as a backup or for those needing a general-purpose meter for occasional use.

**Best for:** Basic site needs and quick electrical verifications in CAT III-rated environments.



- 4000 count display
- AC / DC Voltage to 600 V
- AC / DC Current to 10 A
- True RMS
- Resistance, capacitance, frequency ranges
- Duty cycle
- Auto ranging
- Auto power off
- Data hold
- Max/Min
- Built in flashlight
- CAT III 600 V rating

## AVO415

### RELIABLE AND RUGGED

Built for demanding environments with added protection and precision.

**Best for:** Professionals needing a durable, high-precision multimeter with advanced measurements for industrial and solar power environments.



- Safety rated CAT III 1000 V, CAT IV 600 V
- True RMS AC current and voltage
- High resolution 6000 count display
- Frequency up to 10 MHz
- Resistance, continuity and diode measurements
- Current measurement to 10 A
- Variable Frequency Drive (VFD) voltage measurement
- 100 mF capacitance range
- Bright back-light display
- IP67 dust-proof and waterproof rated



## AVO840

### PRECISION WITH LOW-Z MODE FOR GHOST VOLTAGE FILTERING



Designed for electricians requiring accuracy and advanced diagnostics.

**Best for:** Comprehensive site diagnostics with mobile app support and real-time data sharing.

- Safety rated CAT III 1000 V, CAT IV 600 V
- True RMS AC voltage and current for accurate measurements on complex signals or non-linear loads. AC bandwidth up to 1 kHz
- Low input impedance: helps prevent false readings due to ghost voltages
- Min/Max/Average to record signal fluctuations
- Backlight for work in dimly lit areas
- IP44 (splashproof and dust resistant) rating
- Bluetooth connectivity
- Easy control with the free Megger AVO Link app

## AVO850

### HIGH-PRECISION FOR INDUSTRIAL AND LAB APPLICATIONS



Advanced tool for professional-grade accuracy in complex environments.

**Best for:** Precision fault-finding in labs, production lines, and demanding industrial settings.

- Safety rated CAT III 1000 V, CAT IV 600 V
- True RMS AC current and voltage
- High accuracy ( $\pm 0.05\%$ )
- Measure frequency up to 10 MHz
- Resistance, continuity and diode measurements
- 10 mF capacitance range
- High resolution 50,000 count
- Current measurement to 10 A
- Analogue bar graph
- Bluetooth interface and Megger app

# Clamp Meters

Our clamp meter range offers accurate and reliable AC and DC current measurements in both residential and industrial applications. Designed for durability, and ease of use, these clamp meters are ideal for electrical contractors who need

versatile tools to handle everything from routine checks to complex diagnostics. With options covering various current ranges, measurement features and safety ratings, you can find the right meter for any task.

## FCC3450 HIGH-CAPACITY FLEXIBILITY FOR HARD-TO-REACH AREAS

The FCC3450, with its 3000 A range and flexible Rogowski coil, is perfect for measuring around large or hard-to-access conductors. Bluetooth-enabled, it allows remote monitoring via the Megger Link app for enhanced data tracking and sharing.

**Best for:** Large AC current measurements in confined spaces where flexibility is essential.

- Up to 3000 A AC current measurement
- 1000 V AC/DC measurement
- 150 mm maximum conductor size
- Megger Link™ app compatible
- Continuity and frequency measurement
- Data Hold on all ranges
- Low-battery LED indicator
- CAT IV 600 V/CAT III 1000 V
- Supplied with protective carry pouch





## DCM340

### VERSATILE FOR BOTH RESIDENTIAL AND INDUSTRIAL APPLICATIONS

This meter covers AC/DC voltage, current, resistance, and frequency, with up to 600 A and 600 V ranges. Its min/max and peak hold functions are ideal for load testing, and it can handle solar, battery, and EV-related measurements.

**Best for:** Electricians needing both clamp meter and multimeter functions, especially for renewable energy and heavy-duty applications.

- DC and AC current and voltage
- 600 A and 600 V
- Resistance and continuity
- 3½ digit, 4000 count display with backlight
- High resolution digital bargraph
- Peak, min/max and data-hold functions



# Clamp Meters



## DCM305E

### PRECISE EARTH LEAKAGE MONITORING

Ideal for diagnosing earth leakage issues, the DCM305E offers six ranges down to 0.001 mA, making it perfect for checking circuits prone to RCD trips. It features a low-pass filter for stability and has preset leakage limits with visual and audible alerts.

**Best for:** Accurate earth leakage testing in installations where RCDs are frequently tripping.

- Measuring ranges: 6 mA, 60 mA, 600 mA, 6 A, 60 A, 100A
- Automatic or manual measuring range
- 0.001 mA Resolution
- Up to 100 A range for standard AC current measurements
- True RMS value reading
- Low pass filter to aid stability of readings
- Auto Hold, Data Hold & Peak Hold
- 40 mm clamping jaw



## DCM310

### COMPACT METER FOR BASIC MEASUREMENTS

For domestic installations and maintenance, the DCM310 (current-only) is a pocket-sized option. It measures up to 400 A.

**Best for:** Routine AC current checks.

- Current only model
- Measures up to 400 A AC, with low current ranges for improved resolution
- Max Hold
- IEC61010 CAT III 600 V







## DCM320

**COMPACT METER FOR  
BASIC MEASUREMENTS**

For domestic installations and maintenance, the DCM320 (multimeter functions) is a pocket-sized option. It measures up to 400 A and adds voltage, resistance, and continuity for more versatile testing.

**Best for:** Routine AC current checks and basic multimeter functions in a compact form.

- Current only and multimeter models
- Measures up to 400 A AC, with low current ranges for improved resolution
- 600 V AC/DC
- 20 M $\Omega$  resistance
- IEC61010 CAT III 600 V



## DCM1500

**HIGH-RANGE AND HIGH-  
ACCURACY FOR LARGE SYSTEMS**

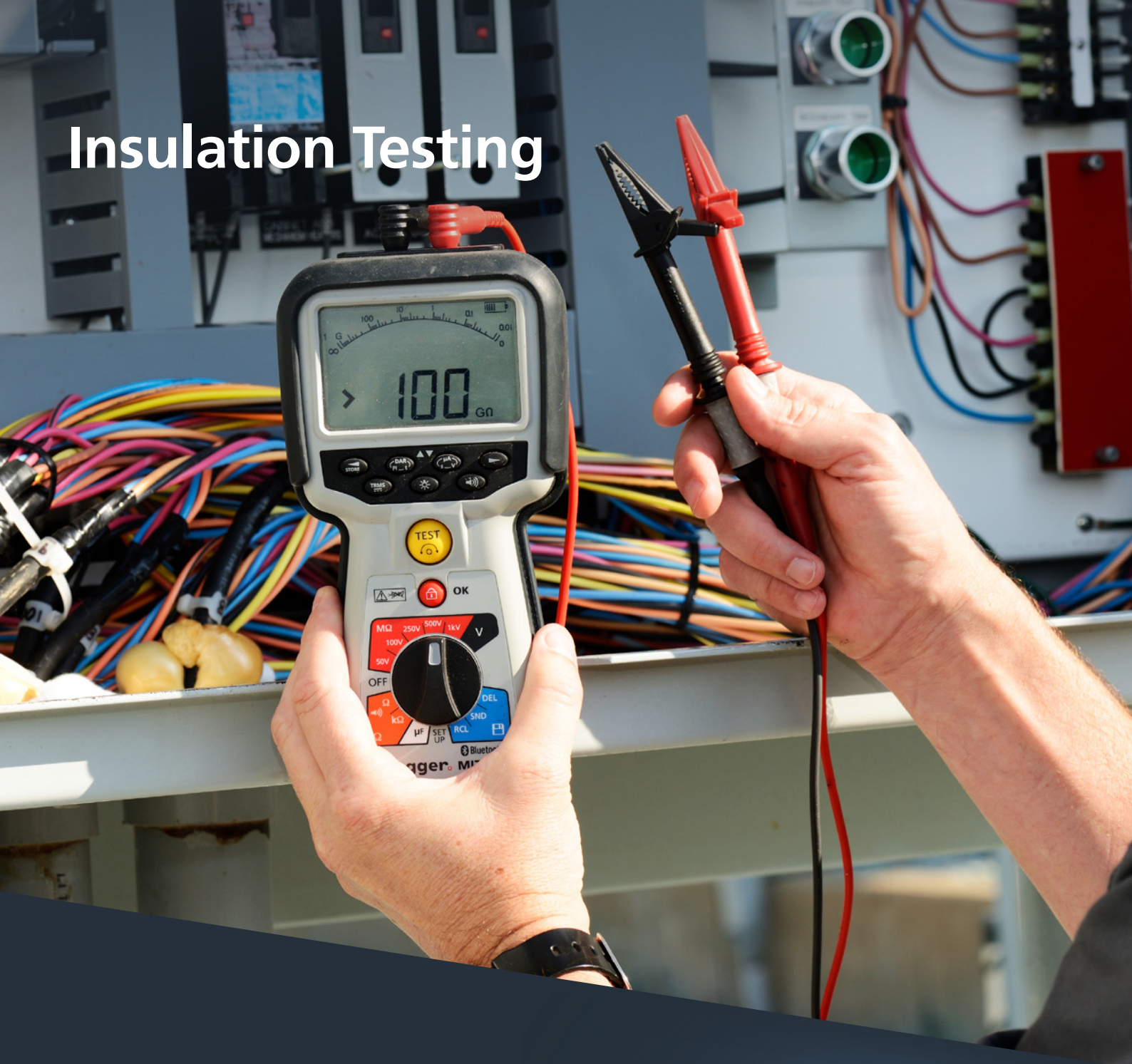
The DCM1500 measures up to 1500 A AC/DC and 1000 V DC, and is ideal for contractors working on large electrical systems or solar installations. True RMS ensures accuracy with non-linear loads, and the wide jaws accommodate thick cables.

**Best for:** Industrial and renewable energy applications requiring high current measurement and wide cable access.

- Current measurement up to 1500 A AC/DC
- Voltage measurement 750 V AC and 1000 V DC
- Measurement category CAT IV and True RMS
- Fast sampling rate of 10 ms
- True RMS measurements for higher accuracy
- Large clamp opening for safe measurements on non-insulated conductors
- Resistance, continuity and frequency measurements
- Peak, Min/Max display and Data Hold function



# Insulation Testing



Our insulation tester range provides electrical contractors with robust, reliable, and versatile tools for insulation and continuity testing across a wide spectrum of applications. From compact, portable models ideal for fieldwork to high-voltage testers designed for industrial environments, they meet the varied needs of modern electrical professionals. Each model prioritizes user safety with features like live circuit warnings, test inhibits, and stabilized insulation test voltages. This ensures precise readings and dependable performance.







## MIT200 Series

**POCKET-SIZED  
PRECISION**

**Best for:** Electricians and technicians who need a lightweight, pocket-sized insulation and continuity tester for quick and reliable assessments of electrical assets like motors, transformers and switchgear.

The MIT200 series pocket-sized insulation and continuity testers offer insulation testing up to 1000 MΩ and continuity testing at 200 mA. Designed for portability, they feature a combined digital and analogue display for clear, accurate readings. Ideal for engineers working with transformers, motors and switchgear, the MIT200 models are perfect for extended field use due to their compact design and lightweight build.



## MIT300 Series

**TOUGH AND  
USER-FRIENDLY**

**Best for:** Electrical contractors who require a durable, weatherproof insulation tester with advanced safety features for a wide range of installation and maintenance tasks.

Engineered for everyday use by electrical contractors, the MIT300 series includes features like a rubber-armored case and IP54 weatherproofing, making it durable and resilient. With both digital and analogue displays, live circuit warnings, and automatic discharge functions, this series supports safe and efficient testing. Models vary in functionality, from the entry-

level MIT300 to the advanced MIT330 with added resistance measurement and adjustable continuity buzzer, catering to all contractor requirements.

**MIT320** – as MIT310 + backlit display, illuminated range panel, insulation limit alarm, resistance measurement, and an adjustable threshold for the continuity buzzer

**MIT330** – as MIT320 + 1000 test result storage



## MIT400 Series

**VERSATILITY IN  
INDUSTRIAL SETTINGS**

**Best for:** Professionals working in demanding environments who need a robust tester with comprehensive insulation resistance and continuity testing capabilities for industrial, commercial and utility applications.

The MIT400/2 series CAT IV testers are designed for industrial applications, offering insulation testing up to 1000 V with a range up to 200 GΩ. With a user-variable test voltage, faster continuity testing, and Bluetooth data transfer options, these testers provide adaptability and precision across electrical installations, motor testing, and cable inspections. Each model, from the base MIT400/2 to the Bluetooth-enabled MIT430/2, combines rugged construction with features that enhance user safety and testing efficiency.

**MIT400/2** - 250 V, 500 V, 1000 V Insulation tester

**MIT410/2** - as MIT400/2 + 50 V and 100 V, PI, DAR and timed testing

**MIT420/2** - as MIT410/2 + variable voltage test, storage and recall

**MIT430/2** - as MIT420/2 + Bluetooth® and recharge ready

# Insulation Testing



## MIT480 Series

SPECIALIST TESTING FOR COMMUNICATIONS

Purpose-built for telecommunications and cable testing, the MIT480/2 series includes gated voltage access and three-wire connections for differential measurement, essential for communication engineers. With Bluetooth data transfer, IP54 rating, and recharge options, these models provide reliable insulation and continuity testing up to 500 V – ideal for telecom and communications industries.

**MIT481/2** - three-terminal 50 V to 500 V + storage and recall

**MIT485/2** - as MIT481/2 + Bluetooth® download



## MIT2500 Series

HIGH-VOLTAGE TESTING FOR INDUSTRIAL POWER APPLICATIONS

**Best for:** Engineers and specialists who require high-accuracy insulation testing up to 2.5 kV, ensuring compliance, reliability and safety in critical electrical infrastructure.

The MIT2500 meets the high-voltage testing demands of industrial and electrical maintenance applications such as PV farms. This instrument has an impressive 200 GΩ range. It offers a Guard terminal for high-resistance accuracy, and includes features such as Polarisation Index and Dielectric Absorption Ratio.

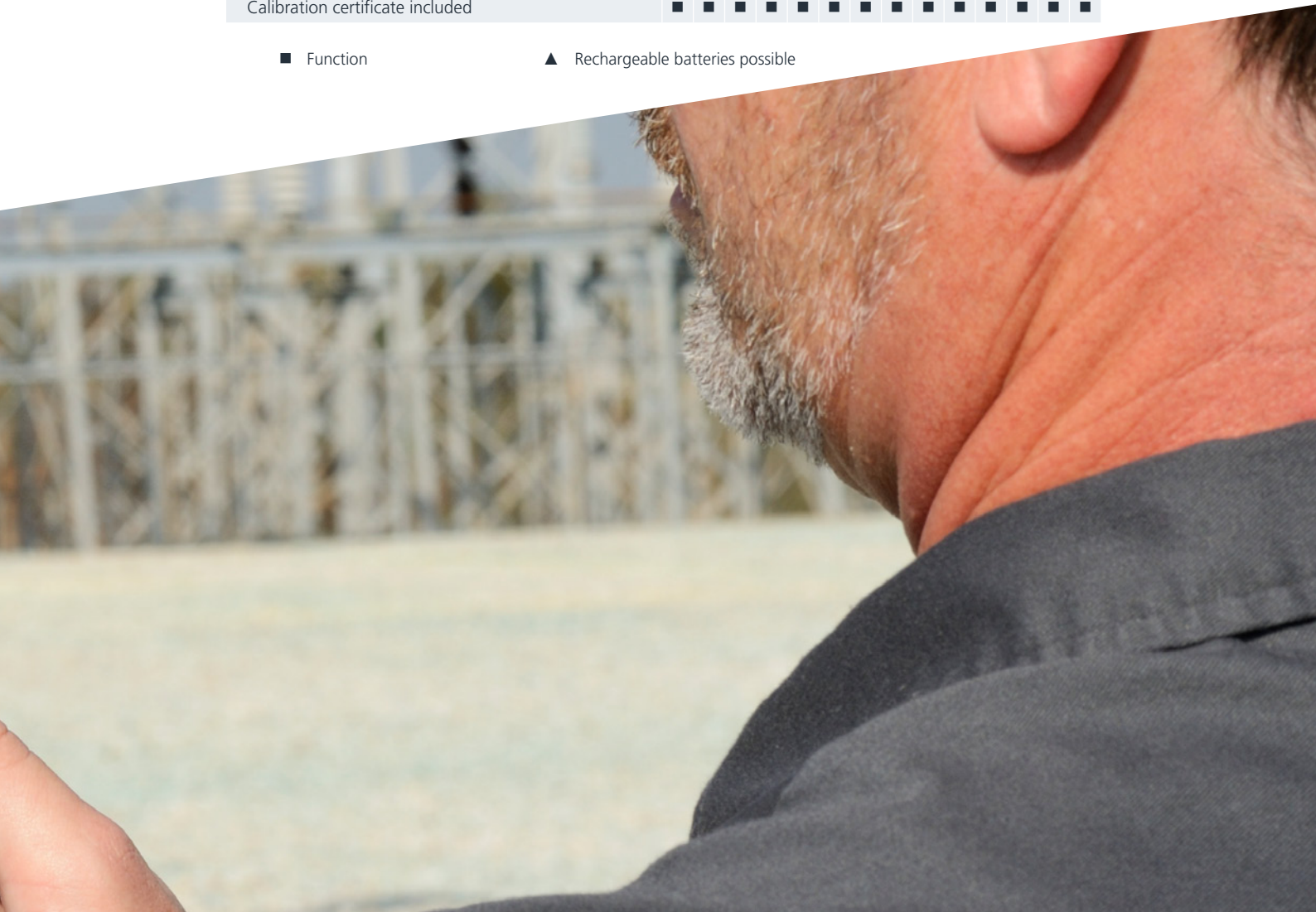




	MIT200	MIT210	MIT220	MIT230	MIT300	MIT310	MIT320	MIT330	MIT400/2	MIT410/2	MIT420/2	MIT430/2	MIT481/2	MIT485/2
<b>Test voltages</b>														
1000 V		■		■		■	■	■	■	■	■	■	■	■
500 V	■		■	■	■	■	■	■	■	■	■	■	■	■
250 V			■	■	■	■	■	■	■	■	■	■	■	■
50 V / 100 V										■	■	■	■	■
<b>Insulation - Test methods</b>														
Polarization index													■	■
Dielectric absorption ratio													■	■
<b>Further tests</b>														
Continuity check	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Frequency measurement													■	■
Capacity measurement														■
Voltage measurement	■	■	■	■		■	■	■	■	■	■	■	■	■
<b>Memory and interfaces</b>														
Data memory								■			■	■	■	■
USB interface								■						
Bluetooth interface												■		■
<b>Supply</b>														
Mains Power supply														
Rechargeable batteries	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
<b>Security</b>														
CAT III / 600 V	■	■	■	■	■	■	■	■	■	■	■			
CAT IV / 600 V													■	■
Calibration certificate included	■	■	■	■	■	■	■	■	■	■	■	■	■	■

■ Function

▲ Rechargeable batteries possible



# Loop and RCD Testers

Our Loop and RCD tester ranges give electrical contractors reliable, efficient testing for live circuits across a range of environments. With robust safety features, user-friendly interfaces, and high accuracy, these testers help contractors complete their work safely and effectively, whether in

residential, commercial, or industrial settings. Each series offers unique features tailored to specific testing needs, from high-current loop testing to non-tripping RCD verification.

- 2-wire non-tripping loop tester
- 50 V to 440 V operation
- 110 V centre-tap loop testing
- CATIV installation testing
- AUTO start operation
- 0.001  $\Omega$  resolution (LTW425)

## LT300 Series



### HIGH-CURRENT LOOP TESTING

**Best for:** Electricians and engineers who need reliable, high-accuracy loop testing in CAT IV environments, including industrial and heavy-duty applications.

The LT300 series, offering compatibility with both single and three-phase systems. With a wide frequency range (16 Hz to 400 Hz), the LT300 models feature simple two-wire operation and automatic frequency detection, providing fast and stable readings down to 0.01  $\Omega$ . Housed in a durable, weatherproof IP54 case, these testers are perfect for heavy-duty testing in adverse conditions and are supplied with either a two-wire lead set or a mains plug lead for added versatility.

## LTW300 & LTW425 Series



### NON-TRIP LOOP TESTING

**Best for:** Contractors working in environments with sensitive equipment who require precise, non-intrusive loop testing on both single and three-phase circuits.

For contractors working with RCD-protected circuits, the LTW300 series offers non-tripping loop impedance testing across a broad voltage range (50 V to 440 V). These two-wire testers avoid tripping of 30 mA RCDs, making them ideal for environments with sensitive equipment. The series includes models with advanced features like maxZ and (R1+R2) testing, as well as data download options. With an advanced noise detection system to enhance result accuracy, the LTW300 series is a reliable tool for safe, non-intrusive loop testing on both single and three-phase circuits.

- LTW315** - 2-wire loop
- LTW325** - + maxZ and (R1+R2)
- LTW335** - + maxZ and (R1+R2) + Results memory and download
- LTW425** - 0,001 Ohm resolution



## LRCD200 Series



### LOOP AND RCD TESTING

**Best for:** Electrical contractors needing a versatile tester that combines loop and RCD testing, including non-trip loop testing and high-current RCD verification.

The LRCD200 series provides a versatile solution for contractors needing both loop and RCD testing. With non-trip loop testing and RCD testing up to 1000 mA, this series is ideal for contractors working with energised circuits. The rugged, weatherproof IP54 casing and protective front cover make it suitable for tough working environments. There are several models available, from the domestic LRCD210 to the versatile LRCD220. This series allows safe three-phase loop testing and reverse polarity indication. These instruments include built-in storage for test leads, ensuring easy handling and efficient testing.

## RCDT300 Series



### DURABLE, INTUITIVE RCD TESTING

**Best for:** Electricians needing a tough, easy-to-use RCD tester with advanced features for compliance and efficiency.

The RCDT300 series of residual current device testers combines ruggedness and durability with intuitive operation, ensuring safety even when connected accidentally to a live three-phase supply. Designed with IP54-rated water and dust resistance, these compact testers feature rubber overmoulding for added protection and a built-in display cover. The three models cater to a range of testing needs, from basic RCD testing to advanced features like ramp testing and automatic test sequencing.

Each model is tailored to specific applications. The RCDT310 supports standard and selective RCD testing with voltmeter mode activation when connected to a live supply. The RCDT320 expands compatibility to centre-tapped 110 V supplies and introduces ramp testing and auto sequence testing for efficiency. The RCDT330 extends the operating current range 'even further, and adds additional functions such as a backlit LCD and internal memory for storing over 1000 test results, which can be downloaded via a USB. All models comply with IEC61010-1 safety standards and come with test leads and calibration certificates for immediate use.

**RCDT310** Standard & selective RCDs, 0.5I, I, 5I tests

**RCDT320** + Ramp testing, Auto sequence test

**RCDT330** + AC voltage & frequency, memory & USB download

# PAT Testing



Megger PAT testers are available in versions to suit all users, from those with an occasional requirement for in-house appliance testing to PAT testing service providers who routinely test large numbers of appliances. All models are designed to be easy to

use and deliver accurate results quickly. As with all Megger products, safety is built in, and robust construction ensures that the testers will have long, reliable working lives.

## PAT250

### HANDHELD TESTER WITH WIRELESS CONTROL



**Best for:** In-house testers who want a wireless, app-integrated PAT tester for efficient testing and certification.

Ideally suited to efficient and speedy in-house appliance testing, the handheld PAT250 can be remotely controlled from the CertSuite PAT app via a Bluetooth wireless connection. This makes it extremely convenient for users and gives access to additional features. It has all of the functionality of the PAT150 but also supports custom test sequences and direct transfer of results to CertSuite PAT. For uninterrupted testing and reduced downtime. The PAT250SRX has rechargeable batteries. Both models are supplied with a one-year licence for CertSuite PAT as standard, while the PAT250SRX also includes a rechargeable battery pack.

- Testing for Class I and Class II appliances and extension leads
- Simple PASS/FAIL indication with adjustable PASS/FAIL limits
- Automatic, manual and custom test sequences
- 500 V insulation and leakage testing for general use
- 250 V insulation and leakage testing for safe testing of IT equipment and surge protected devices
- Substitute and mains-powered leakage testing
- Instant generation of test reports with no need to fill in results manually
- Rechargeable battery
- Tough and rubber armoured with built-in front cover. Hardened, scratch-proof display window



## PAT400 Series

### HIGH-CAPACITY TESTER WITH KEYBOARD

**Best for:** Service providers and rental companies needing a powerful PAT tester that streamlines testing and speeds up report generation with CertSuite PAT compatibility.

The PAT400 series of portable appliance testers is designed to meet the needs of service organisations, equipment rental companies, and professional electricians. This robust range includes models such as the PAT410, PAT420, and PAT450—each offering varying levels of functionality to suit different testing requirements. All models in the series are easy to use and support both manual and automatic test modes. The PAT450, the most advanced in the series, includes internal storage for up to 10,000 test results and features a built-in QWERTY keyboard for quick entry of customer and asset data. With features like rapid start-up, instant restart after temporary disconnection, optional barcode support, and fast results transfer via USB to CertSuite PAT, the PAT400 series enhances productivity and ensures testing consistency across a wide range of appliances.



- Large, illuminated colour display with pass/fail indication
- Customer database - up to 100 customers with 2000 locations possible for each customer
- Test item database - up to 10,000 tests results
- Ex works with approx. 30 preset test groups
- Adjustable limit values and test times
- Login to the test device with a user name and personal PIN. For legally compliant documentation, a distinction is made between "Supervisor" (all rights) or "User" (restricted rights)
- Complete database backup and, if necessary, restoration via USB memory stick
- PAT420: 200 mA +10 A \_25 A Protective conductor current
- PAT 450: 200 mA +10 A \_25 A protective conductor current and insulation test at 1500 V and 3000 V
- Barcode scanner/ RFID reader and printer can be connected to the PAT via USB
- Five soft keys for quick access to frequently used functions

## CertSuite PAT

CertSuite PAT simplifies the process of PAT testing by allowing easy recording of results, secure storage of data and quick generation of certificates. Regular updates guarantee that reports always adhere to the most recent standards and guidelines. The software is user friendly and can be accessed via a web browser or any portable device running on the iOS or Android operating system. This efficient app saves time and supports manual entry of results from any PAT tester, while also automatically capturing test results when used with Megger PAT250 testers. Results from Megger's PAT450 tester can be transferred via USB.



# PAT Testing

## PAT100 Series



### BASIC, HANDHELD PAT TESTING

**Best for:** Users needing a simple, cost-effective tester for small-scale in-house appliance testing.

The PAT100 range of handheld portable appliance testers is an economical choice for basic testing of small numbers of appliances. In addition to measured values, these instruments offer clear PASS/FAIL indication. There are two models in the range. The PAT120 tests Class I and Class II appliances and extension leads with fixed pass limits. It can also be used to test IT and surge-protected equipment. The PAT150 offers all the features of the PAT120 but adds live leakage tests, portable RCD (PRCD) testing and adjustable PASS/FAIL limits. Individual tests can also be performed manually.

- Simple tick or cross, PASS or FAIL indication plus measurement
- Tough and rubber armoured case with built-in front cover. Hardened, scratch-proof display window
- Includes 250 V insulation and leakage testing for safe IT testing and surge protected devices
- Tests portable and fixed electrical equipment
- 10 mA and 30 mA portable RCD lead testing (PAT150)
- Adjustable PASS test limits (PAT150)
- Substitute and mains powered leakage testing (PAT150)
- Battery powered with rechargeable options

## PAT300 Series



### ONE-BUTTON AUTOMATIC TESTING

**Best for:** Professionals testing large volumes of appliances who need fast, automated operation.

Testers in the PAT300 range offer exceptional productivity – all tests can be carried out automatically at the press of a button. Manual test options are also available for special requirements. These desktop testers are an excellent option for users with large numbers of appliances to test and who require maximum testing versatility but do not need to store test results within the tester. The PAT300 range has two models. The PAT320 is a rugged, fully featured, yet easy to use instrument with dedicated buttons for direct access to tests, ensuring high productivity. It can also test 110 V appliances. The PAT350 adds flash testing for manufacturing, production, tool-hire shop and similar applications.

- Simple manual or automatic testing
- Bond testing at 25 A, 10 A and 200 mA
- Differential, touch and substitute leakage testing
- Full colour display
- Pre-set test sequences for Class I, Class II and extension leads
- Flash Testing at 1.5 kV and 3 kV
- Tests to DIN VDE 0701-0702
- Tests portable RCDs and extension leads

Functions	PAT120	PAT150	PAT250	PAT320	PAT350	PAT410	PAT420	PAT450
<b>SUPPLY</b>								
230 V				■	■	■	■	■
110 V							■	■
Battery powered	■	■	■					
<b>EARTH BOND/CONTINUITY</b>								
200 mA	■	■				■	■	■
10 A				■	■		■	■
25 A				■	■		■	■
Bond lead null	■	■	■	■	■	■	■	■
<b>INSULATION TEST</b>								
250 V	■	■	■	■	■	■	■	■
500 V	■	■	■	■	■	■	■	■
<b>LEAKAGE TESTS</b>								
Substitute	■	■	■	■	■	■	■	■
Differential		■	■	■	■	■	■	■
Touch current		■	■	■	■	■	■	■
<b>FUNCTIONAL TEST</b>								
Operation Test		■	■	■	■	■	■	■
Polarity (lead Test)	■	■	■	■	■	■	■	■
<b>FLASH TEST 1.5 kV and 3 kV</b>					■			■
<b>PORTABLE RCD TEST (230 V)</b>		■	■	■	■	■	■	■
<b>OTHER FEATURES</b>								
Direct connection with CertSuite PAT			■					
Wireless control by CertSuite			■					
Auto test routine			■*	■	■	■	■	■
Manual testing	■	■	■	■	■	■	■	■
Colour display				■	■	■	■	■
110 V test connection					■		■	■
Configurable test times			■*			■	■	■
Selectable pass limits			■			■	■	■
10,000 record on-board storage			■**			■	■	■
Download to USB memory stick						■	■	■

\* Requires CertSuite software

\*\* unlimited storage requires CertSuite software



# Cable Fault Locators

Our handheld Time Domain Reflectometers (TDRs) allow electrical contractors to pinpoint faults in metallic cables with precision and speed. Both the TDR500/3 and TDR1000/3P are designed for ease of use and robust performance, offering ultra-fast pulse capabilities for identifying faults near the cable's end.



## TDR500/3

COMPACT,  
AUTO-ADJUSTING TDR

**Single Channel Time Domain Reflectometer & cable length meter**

**Best for:** Electrical contractors needing a simple, efficient tool for quickly identifying cable faults with automatic gain and pulse width adjustment.

The TDR500/3 features intuitive control with an 'Auto selection' function for automatic adjustment of gain and pulse width, optimising settings for rapid fault detection. It also includes a trace 'Hold' feature, allowing users to freeze the trace on-screen for easy comparison. The compact, IP54-rated design ensures reliability in real-world working environments, making it suitable for both indoor and outdoor use.

- Minimum resolution of only 0.1 m for troubleshooting very close to the cable end
- Maximum measuring range up to 5 km
- Output resistances of 25, 50, 75 and 100  $\Omega$  and a velocity factor between 0.2 and 0.99
- Trace Hold function
- High-resolution display
- Very intuitive and easy operation through a control switch
- AUTO selection of gain and pulse width
- IP54 protection class for harsh environments



## TDR1000/3P HIGH-RESOLUTION TDR

### Single Channel Time Domain Reflectometer & cable length meter

**Best for:** Professionals requiring precise fault distance measurement and advanced trace comparison for complex cable diagnostics.

The TDR1000/3P combines simple operation with advanced functions, including a dual cursor feature for precise distance measurements between fault points. It also offers an 'Auto selection' option and trace 'Hold' for comparing traces, making it easy to assess the condition of multiple cables. The high-resolution display, with a white-light backlight and grey scale tones, ensures clarity for accurate fault analysis.

Both models have multiple output impedances (25, 50, 75, and 100  $\Omega$ ) and adjustable velocity factors (0.2–0.99), ensuring flexibility for various cable types and test scenarios. Designed for durability and ease of use, these TDRs are the go-to solution for professionals needing fast and accurate cable fault location.

- Simple operation
- Auto setup for instant use
- Ultra fast pulse for near end fault identification
- Trace Hold feature to allow comparison between cables
- IP54 rating offers real life working
- Designed for use on all metallic cable pairs



	TDR500/3	TDR1000/3	TDR1000/3P	TDR2000/3	TDR2000/3P	TDR2010	TDR2050
Range	0.2 m to 5 km	0.2 m to 5 km	0.2 m to 5 km	0.2 m to 20 km	0.2 m to 20 km	0.2 m to 20 km	0.2 m to 20 km
Shortest pulse width	2 ns	2 ns	2 ns	2 ns	2 ns	2 ns	2 ns
Number of channels	1	1	1	2	2	2	2
Built-in blocking filter	■	■	■	■	■	■	■
Memory function	Trace-Hold	Trace hold with Live Trace overlay	Trace hold with Live Trace overlay	Trace hold with Live Trace overlay	Trace hold with Live Trace overlay	Trace hold with Live Trace overlay	Trace hold with Live Trace overlay
Automatic section	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Auto-error detection				■	■	■	■
Trace tagging						■	■
Step function							■
Distance dependant gain							■
Auto end find							■
Rechargeable battery				■	■	■	■
Test Lead type	Miniature clip	Miniature clip	Miniature clip	Miniature clip	10 A Fused standard clip	Miniature clip	10A Fused standard clip
Safety rating	CAT III 300 V	CAT III 300 V	CAT III 300 V	CAT III 300 V	CAT III 300 V	CAT III 300 V	CAT III 600 V
Dust and weatherproof rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54

# Earth testing

Our Earth Testing range offers electrical contractors reliable, accurate and efficient tools for assessing ground resistance and system integrity in diverse environments. Designed to meet the demands of modern installations, these instruments have

advanced features such as stakeless testing, true RMS current measurement and noise mitigation, all while ensuring user safety with robust design and high CAT safety ratings.

## DET14C and DET24C Digital Earth Clamps

### STAKELESS CLAMP-ON EARTH TESTER

**Best for:** Professionals who need fast, non-intrusive earth resistance testing in tight spaces. Ideal for substations and industrial sites.

The DET14C and DET24C earth clamps are advanced, clamp-on resistance testers designed for efficient and reliable ground system testing.

- **Innovative elliptical clamp design:** Access earth cables and straps up to 50 mm in tight spaces
- **Wide measurement range:** Measure ground resistance from  $0.05\ \Omega$  to  $1500\ \Omega$  and true RMS ground leakage current from 0.5 mA to 35 A
- **Safety and durability:** CAT IV 600 V safety rating, low-maintenance flat jaw interface, and robust construction
- **Advanced capabilities:** Balances ground elements, measures ground circuit continuity, and supports stakeless testing
- **Data management options:** DET14C allows on-screen result recall, while DET24C offers Bluetooth® data transfer to PowerDB software for detailed analysis

Ideal for power stations, substations, and other facilities, these clamps offer unmatched access, safety and functionality





## DET3TC and DET3TD Digital Earth Resistance Testers

The DET14C and DET24C earth clamps are advanced, clamp-on resistance testers designed for efficient and reliable ground system testing.



### COMPACT DIGITAL GROUND TESTER

- **Testing options:** Perform 2- and 3-point testing with selectable 25 V or 50 V outputs
- **Noise rejection:** Operates effectively in environments with up to 40 V peak-to-peak noise
- **Durable design:** Rated IP54 for outdoor use, with a robust carry case included
- **Ease of use:** Large selector switch, one-button operation, and clear LCD display make them user-friendly, even with gloves
- **ART testing:** Test ground rods without disconnecting the earthing system using the Attached Rod Technique
- **Comprehensive kits:** Supplied with leads, stakes, batteries and calibration certificates for immediate deployment

The DET3TC is ideal for advanced testing needs, while the DET3TD offers essential functions. Both ensure reliable and efficient ground resistance measurements.

	DET3TD	DET3TC	DET14C	DET24C
Earth loop measurement			■	■
Selective grounding measurements "ART"		■		
Measurement of earth voltage (0 to 100 V)	■	■		
2-wire earth measurement	■	■		
3-wire earth measurement	■	■		
Battery operation	■	■	■	■
Illuminated display			■	■
Measured value memory			■	■
Measured value memory with interface				■
Measurement leakage current (0.2 mA - 35 A)			■	■
Measurement leakage current (0.5 mA - 19.9 A)		■		
Resistance measurement	0.1 to 2 kΩ	0.1 to 2 kΩ	0.1 to 1500 Ω	0.1 to 1500 Ω
Software PowerDB Lite				■

# General Electricians' Tools and Accessories

## MET1000

### ALL-IN-ONE OPEN FORK TESTER

With a unique open-jaw design, the MET1000 is perfect for electricians needing access to incoming mains tails and live busbars. It combines voltage, current, phase rotation and single-pole testing in a compact unit with True RMS and an IP65 rating.

**Best for:** Daily tasks requiring quick, versatile testing, especially in tight spaces with limited access.

- LED & LCD Display with self-test
- Detachable test probes
- AC/DC Voltage to 1000 V
- 200 A AC measurement
- True RMS on ACV/ACA
- IP65
- Phase rotation
- Single pole test
- Data Hold
- Measures voltage without batteries
- Complies with IEC/EN 61243-3:2014



## MPCC230

### COMPACT AND MULTIFUNCTIONAL CIRCUIT CHECKER

The MPCC230 is compact and pocket-sized for contractors needing a multifunctional checker. Combining True RMS voltage measurement, RCD testing, loop impedance and touch voltage checks, the MPCC230 is designed for quick residential and commercial diagnostics. Featuring a 1.77" TFT display and internal memory for report storage, this versatile tester ensures compliance with IEC61557 standards. Ideal for on-the-go testing, it provides essential circuit verification in a portable, easy-to-use device, making it a handy tool for all levels of electrical inspection and maintenance.

- True RMS professional socket checker
- 30 mA Type A, AC and F RCD Test
- AUTO RCD x1/2, x1, x5 and 180°
- Touch voltage indication
- Frequency measurement
- Earth loop impedance with prospective earth fault current
- THD% of mains voltage
- Voltage harmonics indication, up to the 50th





## TPT420

### 2-pole tester

A robust, easy-to-use voltage and continuity tester, measuring AC voltage from 12 to 1000 V and DC voltage up to 1500 V. Featuring CAT IV 1000 V safety, IP64 protection, phase rotation indication, and a built-in LED torch, it ensures reliable performance even without batteries. That makes it ideal for diverse applications, including electrical, automotive and solar systems.

- CAT IV / 1000 V
- IP64 rated
- 12..1000 V AC
- 12..1500 V DC
- LED and LCD display
- Continuity test function with visual and acoustic indication
- Voltage indication with no batteries
- Single pole voltage test
- Phase rotation indication
- Integrated torch light
- Supplied with protective carry pouch



## MPU690

### Proving unit for 2-pole testers compatible with all common voltage testers

- Tests 2-pole testers and voltage indicators
- Step LED indicates test voltages 50 V, 100 V, 230 V, 400 V, 690 V
- Simulates AC voltage with 50 Hz
- The compact housing contains a magnetic holder
- Automatic switch-on and switch-off for energy-saving operation
- Battery level warning



# General Electricians' Tools and Accessories

## MCT105

### Cable locator

The Megger MCT105 cable locator kit includes a transmitter and receiver for tracing cables, conductors and metal pipes in walls or underground, even on live or dead circuits. It identifies fuses, circuit breakers, short circuits and cable breaks, with features like visual and audible signal indication and adjustable sensitivity. It also features a built-in torch. Suitable for depths up to 2.5 m, it supports a wide voltage range (12–400 V) and offers reliable performance for electrical and plumbing applications.

- Trace cables and conductors in walls
- Works on both live and dead cables or conductors
- Locate conductor breaks and short circuits
- Identify fuses and circuit breakers
- Trace conductors buried in the ground
- Trace metal water and heating pipes
- Visual and audible signal strength indication
- Non-contact voltage detector (receiver)
- Automatic or manual sensitivity adjustment
- Built-in torch (receiver)



## PSI410

### Phase Sequence Indicator

The Megger PSI410 Phase Sequence Indicator provides quick and reliable phase sequence verification using a triple bi-coloured LED display and audible tone. It identifies missing phases and confirms correct phase rotation, with rugged construction and fused test leads for industrial environments. Self-powered and easy to use, it's ideal for checking three-phase motor, pump, and air conditioning supplies.

- LED clockwise and counter clockwise phase rotation indication
- Audible indication of direction
- Phase condition LEDs
- Fused test leads
- Croc clips and prods provided
- Dual phase colour identification



## MTF230 / MSA1363

### Socket adapter

The MSA1363 and MTF230 Socket Adaptors simplify safe connections to a circuit via standard socket outlets, eliminating the need to dismantle sockets or expose live terminals. Colour-coded sockets ensure quick, accurate connections, protecting sockets and surrounding décor while allowing 4-mm test lead measurements.

- R1 and R2 testing
- Colour-coded terminals
- Standard 4-mm terminals
- CAT II 300 V
- Safe and simple to use



## MFL105

### Fuse locator

The Megger MCT105 cable locator kit includes a transmitter and receiver for tracing cables, conductors, and metal pipes in walls or underground, even on live or dead circuits. It identifies fuses, circuit breakers, short circuits, and cable breaks, with features like visual and audible signal indication and adjustable sensitivity. It also features built-in torch. Suitable for depths up to 2.5 m, it supports a wide voltage range (12–400 V) and offers reliable performance for electrical and plumbing applications.

- Identify circuit breakers or fuses
- Simple to use
- Auto-Sensitivity adjustment
- Audible and visual indication
- 110/230 V operation
- Industry standard 4-mm connectors
- Red and Black crocodile clips supplied
- Carry case



## MSL10

### Stud locator

A user-friendly tool for locating wooden studs, metal joists, or live AC cables behind drywall and other building materials. It provides clear LED and audible indications, helping users pinpoint the centre of studs or joists by detecting their edges. Adjustable depth settings and a carry case make it a practical choice for construction and renovation projects.

- Locate wooden joists or studs
- Locate metal joists or studs
- Locate live AC cables
- Simple to use
- Adjustable depth range
- Audible and visual indication
- Carry case





# General Electricians' Tools and Accessories

## PVM210

### Irradiance meter

A compact, pocket-sized tool designed for solar and photovoltaic engineers to optimize panel positioning and measure solar power. With a 1999 W/m<sup>2</sup> range, single-handed operation and a built-in display, it ensures fast, accurate readings for panel alignment and short-circuit current calculations. Features include a measurement hold function, BTU measurement, a standard camera mount for precise placement, and a protective pouch.

- Optimal incident angle and positioning of solar panels
- Measurement of solar power for panel short circuit calculation
- 3¾ digit LCD display with 1999 W/m<sup>2</sup> range
- Single-handed use
- Mini pocket size
- Standard camera-mount fixing for accurate placement



## MLM50

### Fuse locator

A compact, IP54-rated device for precise measurements up to 50 m, with 1.5-mm accuracy up to 10 m. It features single or continuous measurement modes, automatic area and volume calculations, and a 20-measurement memory. Easy to use with soft-touch buttons, a built-in spirit level and a protective carry pouch, it's ideal for professional and versatile distance measuring tasks.


- 50 m range
- Accuracy 1.5 mm (up to 10 m)
- Single measurement mode
- Continuous measurement mode
- Automatic Max/Min
- Area calculation
- Volume calculation
- Metres, Feet & Inch ranges
- 20-measurement memory
- Front or rear measurement reference
- Built-in spirit level
- IP54

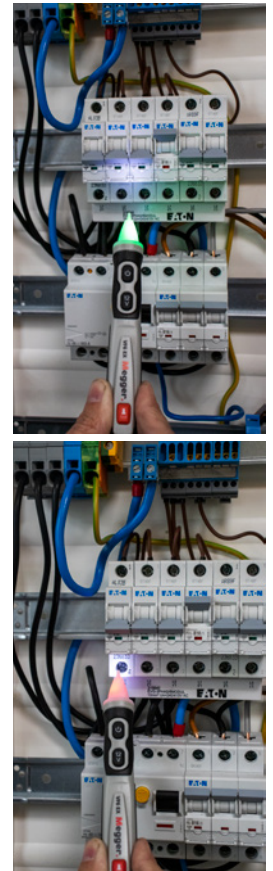


## VF5 & VF6 EX

### AC non-contact voltage detector

Durable, non-contact AC voltage detectors with a 12–1000 V range, offering visual, audible and vibration alerts for voltage presence. Both feature a built-in LED torch for low-light environments, while the VF6 EX is specifically rated for hazardous areas like gas platforms. They are ideal for detecting live conductors, circuit faults, and voltage in various electrical components.

-  Hazardous area rated (only VF6 EX)
- AC non-contact voltage detector
- 12 V – 1000 V voltage range
- Visual, audible and vibration warning of low and medium voltages
- Screw-on battery cover
- Built-in bright-white LED torch
- CAT IV 1000 V
- IP67



## VF-T5

### AC non-contact voltage detector

The Megger VF-T5 combines non-contact AC voltage detection (12–1000 V) with built-in IR temperature measurement, making it versatile for electrical, industrial and HVAC applications. Featuring visual, audible and vibration alerts, a bright LED torch, and a digital LCD for temperature readings.

- AC voltage 12V–1000V
- red tip + beeper
- CAT IV 1000V
- Temperature Measurement: -30°C to 280°C
- ±2.0% accuracy
- 4:1 distance-to-spot laser pointer
- LED torch
- Alerts (sound, visual, vibration)
- Auto power-off







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