

MI 3201 TeraOhm 5 kV Plus



5 kV Insulation, Voltage and Faultfinding Tester



- **Automated testing** - PI, DD, DAR calculations with automated resistance ranging (AR). All data is displayed during one single measurement.
- **Fault finding** - Fully programmable step voltage and withstanding voltage test functions to assist in diagnosing faults in insulation.
- **R(t) graph** - Real time resistance against time graph plotting facility to graphically illustrate the response of a material to an applied test voltage.
- **Faster testing** - High 5 mA charging current quickly charges capacitive loads.
- **Accurate** - Selectable noise rejection filters (up to 5 mA) and shielded cables as standard ensure accurate readings.
- **Safe** - High CAT IV, 600 V voltage protection
- **Portable** - Lightweight 3 kg design with carry handle and shoulder strap.

The new MI 3201 TeraOhm 5 kV insulation tester is a portable instrument intended to measure insulation resistance through the use of high voltage DC test voltages up to 5 kV. The large LCD screen allows real-time R(t) graphs to be displayed. Results can be stored and downloaded to a computer via USB and RS232 connections with the help of the optional HVLink software. The high quality instrument, shielded test leads and quality accessories included in the standard set enables you to perform your testing effectively.

APPLICATION:

- Testing insulation resistance of rotating machinery and cables,
- Production line periodic testing and maintenance,
- Troubleshooting and analysis of all kinds of insulation problems.
- Diagnostic testing

STANDARDS:

Instruments operation:
IEC/EN61557-2

Electromagnetic compatibility:
EN 61326 class B

Safety:
EN 61010-1 (instrument)
EN 61010-031(accessories)

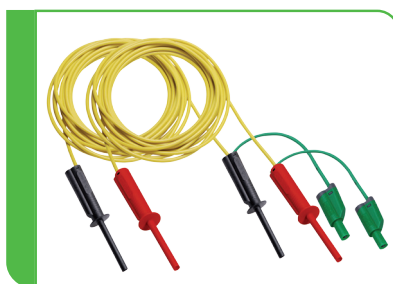


Technical Specification

| INSULATION | |
|------------------------------------|--|
| Test voltage range | 250 - 5000 V |
| Measuring range | 10 TΩ |
| Voltage steps | up to 5 kV, step by 25 V |
| Voltage ramp test | yes |
| Automatic discharge after test | yes |
| Calculation of DD, DAR, PI | yes |
| Step voltage testing | yes |
| Withstanding voltage test | yes |
| Timer | yes |
| Leakage current measurement | yes |
| Capacitance measurement | yes |
| Short circuit / charge current | 5 mA |
| Guard terminal | yes |
| Auto adjustment function | yes |
| Audible warnings | yes |
| Auto ranging | yes |
| Shielded test leads included | yes |
| VOLTAGE | |
| Voltage test AC/DC | up to 600 V AC and DC |
| ACCURACY | |
| Insulation | 5 % +3d (to 1 TΩ), 15 % +3d (to 10 TΩ) |
| Voltage | 3 % +4 V |
| Capacitance | 5 % +2d |
| DISPLAY | |
| R(t) graphs plotting facility | yes |
| Back light | yes |
| Graphic display | LCD |
| MEMORY, SOFTWARE AND COMMUNICATION | |
| USB / RS232 downloading | yes |
| Memory size | 128 kB |
| Software | Optional "HVLink" software |
| SAFETY AND PROTECTION | |
| IP | 44 |
| Safety category | CAT IV, 600 V |
| POWER SUPPLY | |
| Rechargeable batteries | Included |
| In-built battery charger | yes |
| Low battery indication | yes |
| Battery life | 4 h at 5 kV |
| DIMENSIONS | |
| Weight | 3 kg |
| Dimensions | 310 x 130 x 250 mm |



Real time resistance against time graph plotting facility



Shielded test leads 10 kV included in standard set

ORDERING INFORMATION

MI 3201

Standard set



Instrument TeraOhm 5 kV
Mains cable
10 kV shielded test lead set, 2 m (black, red)
10 kV alligator set (black, red)
Test lead with alligator clip, 2 m (green)
6 x 1.2 V NiMH batteries, C type
Handbook "Modern insulation testing" on CD
Instruction manual
Product verification data

OPTIONAL ACCESSORIES

| Photo | Order No. | Acc. description |
|-------|-----------|---|
| | A 1046 | 6 x 1.2 V NiMH batteries type C |
| | A 1275 | PC SW HVLink PRO with USB and RS232 cable |
| | S 2029 | 10 kV shielded test lead set, 8 m (black, red) |
| | S 2030 | 10 kV shielded test lead set, 15 m (black, red) |
| | S 2036 | 10 kV alligator set (black, red) |



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