

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 TeraLink software. The high quality instrument, shielded test leads and quality accessories included in the standard set enables you to perform your testing effectively.

APPLICATION:

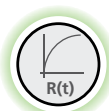
- Testing insulation resistance of rotating machinery and cables,
- Production line periodic testing and maintenance,
- Troubleshooting and analysis of all kinds of insulation problems.
- Diagnostic testing

STANDARDS:

Instruments operation:
IEC/EN61557-2

Electromagnetic compatibility:
EN 61326 class B

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

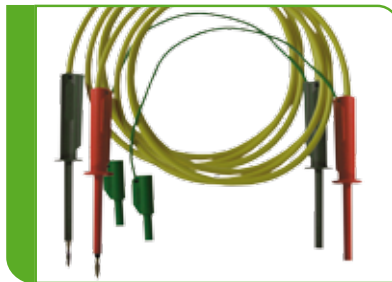


Technical Specification

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 "TeraLink" 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 @ 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 TeraLink 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)



Metrel UK
 Unit 1, Hopton House, Ripley Drive,
 Normanton, West Yorkshire, WF6 1QT
 Tel.: 01924245000
 Web: www.metrel.co.uk
 E-mail: info@metrel.co.uk

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.