

MI / MD

Megohmmeter



Description

The **MD** and **MI** portable megohmmeters have been specially designed to measure insulating resistances with values of TΩ, using a test voltage that can be selected by the user.

Its highly reliable technology enables the intake of accurate measurements and easy reading of insulated low and medium voltage electrical systems, transformers, motors, cables, equipment and home installations, distribution grids, etc. It incorporates a rechargeable internal battery, but it can also be powered from the mains.

It is ideal for outdoor work: it resists severe usage conditions, including impacts, very high and low temperatures, intense vibrations during the transport on bumpy roads, prolonged direct exposure to the sun, etc.

The **MD-5060e** unit includes the following advanced features: automatic calculation of the polarization and dielectric absorption indices, penetration/no penetration tests and fixed time and digital stop-watch.

Features

	MD-5060e	MI-5500e	MI-10 kVe	MI-15 kVe	MI-20 kVe
Technology	Electronic	Analogue			
Power supply characteristics					
Rechargeable battery	12 V - 2.3 A-h	12 V - 7 A-h			
Battery charger	18 V - 1.2 A-h	220 - 240 Vac			
Short-circuit current	1.5 mA (± 0.5 mA)	1 mA		500 µA	
Measurement features					
Scope	5 000 000 MΩ / 5 kV	10 000 000 MΩ	2 000 000 MΩ	3 000 000 MΩ	4 000 000 MΩ
Test voltage	0,5 - 1 - 1,5 2 - 2,5 - 33,5 - 4 - 4,5 5 kV	0,5 - 1 2,5 - 5 kV	1 - 2 - 5 10 kV	1 - 5 - 10 15 kV	5 - 10 - 15 20 kV
Change of scale	Automatic	Manual			
Basic accuracy	5 % of the reading ± 3 digits	Class 1	Class 2 (± 2 % of the scale base deflection)		
Indicator	LCD+bars analogue	Analogue			
Record memory	Yes	No			
Communications					
Serial data output	RS-232 at 4 800 bps	Not available			
Printer	PR-01 (optional)	Not available			
Ambient conditions					
Operating temperature	-5 ... +50 °C				
Storage temperature	-25 ... +65 °C				
Relative humidity	95 % (non-condensing)				
Maximum height	3 000 m above sea level				
Build features					
Dimensions	274 x 250 x 124 mm	378 x 308 x 175 mm			
Weight	3 kg	4.1 kg	9.5 kg	9.7 kg	9.8 kg
Degree of protection	IP 54 (with the cover closed)				
Standards					
IEC 61010-1/1990, IEC 61010-1/1992 appendix 2, IEC 61326-1, IEC 61000-4-3, IEC 61000-4-2					

References

Description	Type	Code
Digital megohmmeter 5 kV (with memory and communications)	MD-5060e	P60521
Analogue megohmmeter 5 kV	Mi-5500e	P60511
Analogue megohmmeter 10 kV	Mi-10kVe	P60512
Analogue megohmmeter 15 kV	Mi-15kVe	P60513
Analogue megohmmeter 20 kV	Mi-20kVe	P60514