High voltage insulation testers MI 3202 GigaOhm 5 kV



MEASURING FUNCTIONS

- Insulation resistance measurement;
- Voltage measurement;
- Frequency measurement.

KEY FEATURES

- Measuring range up to 1 TΩ.
- Analogue scale and digital LCD: measuring results are displayed both in numeric and analogue form.
- Quick set-up: quick and easy selection of test voltage (250 V; 500 V; 1 kV; 2,5 kV; 5 kV).
- Fast testing: 5 mA current source for quick charging of capacitive load.
- Guard test terminal: for elimination of potential surface leakage currents.
- Automatic discharge of tested object after test.

- Safe: high CAT IV / 600 V voltage protection.
- Easy to read: large bright LCD with backlight.
- Built-in charger & rechargeable batteries: instrument has a built-in charger and comes complete with a set of rechargeable NiMH batteries.
- **High quality accessories:** shielded test leads are included in a standard set.
- **Portable:** lightweight 3 kg design with carry handle and shoulder strap.

APPLICATION

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

STANDARDS

Functionality

• IEC/EN 61557-2

Electromagnetic compatibility

• EN 61326 class B

Safety

- EN 61010-1;
- EN 61010-031
- EN 61010-2-034



TECHNICAL SPECIFICATION

FUNCTION	Measuring range	Resolution	Accuracy
Insulation resistance	5 kΩ 999 kΩ	1 kΩ	±(5 % of reading + 3 digits)
	1.00 MΩ 9.99 MΩ	10 kΩ	±(5 % of reading + 3 digits)
	10.0 ΜΩ 99.9 ΜΩ	100 kΩ	±(5 % of reading + 3 digits)
	100 ΜΩ 999 ΜΩ	1 ΜΩ	±(5 % of reading + 3 digits)
	1.00 GΩ 9.99 GΩ	10 ΜΩ	±(5 % of reading + 3 digits)
	10.0 GΩ 99.9 GΩ	100 ΜΩ	±(5 % of reading + 3 digits)
	100 GΩ 999 GΩ	1 GΩ	±(10 % of reading + 3 digits)
Test voltage	0 V 5500 V	1 V	±(3 % of reading + 3 V)
Voltage AC / DC	0 V 600 V	1 V	±(3 % of reading + 4 V)
Frequency	45.0 Hz 65.0 Hz	0.1 Hz	±0.2 Hz
Battery power supply	6 × 1.2 V NiMH rechargeable batteries, type C		
Display	Analogue / digital LCD with backlight		
Overvoltage category	CAT IV / 600 V		
Protection class	Double insulation		
Dimensions	310 x 130 x 250 mm		
Weight	3 kg		

TECHNICAL SPECIFICATION



Standard set MI 3202

- Instrument MI 3202 GigaOhm 5 kV
- A 1036 Mains cable
- A 1808 10 kV shielded test lead with probe, black, 2m
- A 1807 10 kV shielded test lead with probe, red, 2m
- 10 kV crocodile clip, 2 pcs (black, red)
 A 1806 Guard lead, green, 2m
- A 1309 Crocodile clip, green
- A 1046 6 x 1.2 V NiMh rechargable batteries, type C
- Calibration certificate
- Instruction manual

OPTIONAL ACCESSORIES

Photo	Order No.	Acc. decription	
	A 1822 BLK 2M5	10 kV shielded test lead with large black	
	A 1822 BLK 3M	HVX test clip	
OA	A 1822 BLK 5M		
	A 1822 BLK 10M		
	A 1822 BLK 15M	_	
	A 1823 RED 2M5	10 kV shielded test lead with large red	
	A 1823 RED 3M	HVX test clip	
	A 1823 RED 5M	_	
	A 1823 RED 10M		
	A 1823 RED 15M	_	

Photo	Order No.	Acc. decription
O	A 1807 2M	10 kV shielded red test led, HVX
	A 1807 3M	— Ieu, nvx
	A 1807 5M	<u> </u>
	A 1807 8M	<u> </u>
	A 1807 10M	<u> </u>
	A 1807 15M	
On	A 1808 2M	10 kV shielded black test —— led, HVX
	A 1808 3M	— leu, HVX
	A 1808 5M	
	A 1808 8M	
	A 1808 10M	
	A 1808 15M	
8	A 1806 2M	Test lead 1000 V CATIII,
	A 1806 2M5	— green, HVX
	A 1806 3M	<u> </u>
	A 1806 5M	
	A 1806 10M	
	A 1806 15M	

Photo	Order No.	Acc. decription
	A 1386	Test tip for voltage measurements 5 kV, red
	A 1387	Test tip for voltage measurements 5 kV, black
111111	A 1046	1.2 V NiMH battery, type C, 6 pcs
44	S 2036	HV crocodile clip, 2 pcs (red, black)
0 0	S 2058	Insulation test plates
Section of the contract of the	A 1740	Calibration box 5kV
3mm,	A 1271	Carrying bag (S)

METREL D.O.O.

Test and Measurement Equipment Ljubljanska 77, SI-1354 Horjul, Slovenia T +386 (0)175 58 200, F +386 (0)175 49 226 metrel@metrel.si, www.metrel.si

