

# Electronic Insulation Tester

## Mi1000e



### Features

- Insulation resistances up to 200 GΩ
- 2 test voltages: 500 V - 1,000 V
- Guard terminal
- Rechargeable NiMH battery
- Multiple scales for accuracy improvement
- Taut-band analog meter
- High accuracy
- IP65 protection

### Description

The **Mi1000e** general purposes insulation tester is a truly portable equipment suitable to measure insulation resistances using test voltages up to 1 kV. It employs high-reliable, state-of-the-art technology for accurate measurements of insulation resistances up to 200 GΩ with two test voltages: 500 V and 1,000 V. Readings are performed through an easy-to-read analog indicator having a broad scale.

Many experienced technicians consider that insulation measurement are best performed with analog instruments, because they get useful information from the pointer displacement along the time. This equipment is specially indicated for that people, because it is a true analog, simple to use, cost effective, insulation resistance tester.

Insulation of low voltage in electrical systems, transformers, motors, cables, electro-medical equipment and installations, distribution networks, etc., the measurement are easily performed with great reliability, using this instrument.

In order to maximize the operator's safety, this equipment was made within a plastic cabinet of high breakdown strength. A light indicator warns about dangerous voltages presence both in the equipment and in the element under testing, and switches-off automatically when the discharge process has finished. This instrument has a GUARD terminal that allows to remove the effects of parasitic resistances and surface currents on the insulation resistances to be measured.

Due to its strong and lightweight cabinet, it's easy to carry, impact resistant and suitable to be used under severe weather conditions. Thus the insulation tester supplies very reliable and accurate measurements both in laboratory and out in the field.



Illustrative image

# Technical specifications

ELECTRICAL	
<b>Mi1000e</b>	
Test voltages	500 V - 1,000 V
Maximum resistance reading	100 GΩ @ 500 V 200 GΩ @ 1,000 V
Short circuit current	1 mA ± 2 %
Test voltages accuracy	± 2 % of nominal test voltages on R ≥ 1 GΩ
Megohmmeter accuracy	Class 2 (± 2 % of full scale deflection)
Internal current limiting resistance	500 kΩ @ 500 V 1 MΩ @ 1,000 V
FEATURES	
Analog indicator	Up to 98 mm scale length, taut band, with mirror (thus avoiding parallax errors)
STANDARDS	
Safety class	IEC 61010-1
EMC	IEC 61326-1
Electrostatic immunity	IEC 61000-4-2
Electromagnetic irradiation immunity	IEC 61000-4-3
ENVIRONMENTAL	
IP rating	IP65 (with closed lid)
Operating temperature	-10 °C to 50 °C
Storage temperature	-25 °C to 70 °C
Humidity range	95 % RH (non condensing)

POWER SUPPLY	
Rechargeable battery	NiMH, 7.2 V - 1500 mAh
Battery charger	AC Adapter (12 V - 1 A)
MECHANICAL (OF THE INSTRUMENT)	
Weight	Approx. 1.6 kg
Dimensions	221 x 189 x 99 mm

## Included accessories

- 2 Measuring test leads
- GUARD test lead
- AC adapter for the battery charger
- User manual
- Protective bag

## Global Presence

MEGABRAS equipment are used in more than 40 countries around the world



### Test & Measurement equipment

- Digital transformer ratiometer
- Earth ground testers
- Hipots
- Insulating glove tester
- Insulation testers
- Kilovoltmeters
- Micro-ohmmeters
- Power quality analyzers
- Vibration meter



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