

Mi1000e



1 kV INSULATION TESTER

- ✓ INSULATION TEST UP TO 200 G Ω
- ✓ 2 TEST VOLTAGES: 500 V - 1,000 V
- ✓ GUARD TERMINAL
- ✓ RECHARGEABLE BATTERY
- ✓ MULTIPLE SCALES FOR ACCURACY IMPROVEMENT
- ✓ TAUT-BAND ANALOGUE METER
- ✓ HIGH ACCURACY
- ✓ IP54 PROTECTION

The **MI-1000e** general purposes insulation tester is a truly portable equipment suitable to measure insulation resistances using test voltages up to 1kV. It employs high-reliable, state-of-the-art technology for accurate measurements of insulation resistances up to **200G Ω** with two test voltages: **500V** and **1,000V**. Readings are performed through an easy-to-read analogue indicator having a broad scale.

Many experienced technicians consider that insulation measurement are best performed with analogue 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 analogue, 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 isolation 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.

MI-1000e :: TECHNICAL SPECIFICATIONS

TEST VOLTAGES

500 V - 1,000 V.

MAXIMUM RESISTANCE READING

100 G Ω @ 500 V.
200 G Ω @ 1,000 V.

SHORT CIRCUIT CURRENT

1 mA \pm 2%.

TEST VOLTAGES ACCURACY

\pm 2% of nominal test voltages on $R \geq 1$ G Ω .

MEGOHMMETER ACCURACY

Class 2 (\pm 2% of full scale deflection).

INTERNAL CURRENT LIMITING RESISTANCE

500 k Ω @ 500 V.
1 M Ω @ 1,000 V.

ANALOG INDICATOR

Up to 98 mm scale length, taut band, with mirror (thus avoiding parallax errors).

ENVIRONMENTAL PROTECTION

IP54 with closed lid.

SAFETY CLASS

In accordance with IEC 61010-1:1990 and IEC 61010-1:1992

E.M.C

In accordance with IEC 61326-1 and 61000-4-3.

ELECTROSTATIC IMMUNITY

In accordance with IEC 61000-4-2.

POWER SUPPLY

Internal rechargeable battery 7.2 V - 1500 mAh (NiMH).

BATTERY CHARGER

12 V - 1.0 A AC adapter.

OPERATING TEMPERATURE RANGE

-5°C to 50°C.

STORAGE TEMPERATURE RANGE

-25°C to 65°C.

HUMIDITY RANGE

95% RH (non condensing).

EQUIPMENT WEIGHT

Approx. 1.6 kg.

DIMENSIONS

221 x 189 x 99 mm.

INCLUDED ACCESSORIES

- 2 Measuring test leads.
- 1 GUARD test lead.
- 1 AC adapter for the battery charger.
- 1 Protective bag.
- 1 Operating instructions.

Subject to technical change without notice. This catalogue is not a contractual document.



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