

Electronic Insulation Tester

Mi1050e



Illustrative image

Features

- Insulation resistances up to 2 TΩ
- 4 test voltages: 100 V - 250 V - 500 V - 1000 V
- Guard terminal
- Rechargeable battery
- Multiple scales for accuracy improvement
- Taut-band analog meter
- High accuracy
- IP65 protection

Description

The **Mi1050e** 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 ultra high insulation resistances up to 2,000,000 MΩ with four test voltages: 100 V - 250 V - 500V - 1,000V. 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 insulation tester 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 reduced size and weight, its power autonomy and mechanical strength, this equipment is suitable for working out in the field, under severe weather conditions. It is battery powered with an internal, rechargeable battery. In order to easily carry the cabinet, it is closed and water-, dust- and sand-resistant. It provides an IP65 protection (with closed lid) and is supplied with a complete kit of test leads.

Technical specifications

| ELECTRICAL | | Mi1050e |
|--------------------------------------|--|---------|
| Test voltages | 100 V - 250 V - 500 V - 1,000 V | |
| Maximum resistance reading | 200 GΩ @ 100 V 500 GΩ @ 250 V 1 TΩ @ 500 V 2 TΩ @ 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 | 100 kΩ @ 100 V 250 kΩ @ 250 V 500 kΩ @ 500 V 1 MΩ @ 1,000 V | |
| FEATURES | | |
| Analog indicator | Class 1. Scale with up to 98 mm length, with extra fine pointer and mirror, thus avoiding parallax errors. Taut band system. | |
| 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 | Sealed lead acid battery, 12 V - 2.3 Ah |
| Battery charger | 100 - 240 V~ mains supply |
| MECHANICAL (OF THE INSTRUMENT) | |
| Weight | Approx. 3.7 kg |
| Dimensions | 274 x 250 x 124 mm |

Included accessories

- 2 Measuring test leads
- GUARD test lead
- Charger power cord
- User manual
- Carrying 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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