

Mi5500e



- Insulation test up to 10 TΩ
- 4 test voltages:
500 V - 1 kV - 2.5 kV - 5 kV
- GUARD terminal
- Rechargeable battery
- Multiple scales for accuracy improvement
- Taut-band analog meter
- High accuracy
- IP65 protection (with closed lid)

Description

The **Mi5500e** general purposes insulation tester is a truly portable equipment suitable to measure insulation resistances using test voltages up to 5 kV. It employs high-reliable, state-of-the-art technology for accurate measurements of ultra high insulation resistances up to 10,000,000 MΩ with four test voltages: 500 V - 1 kV - 2.5 kV - 5 kV. Readings are performed through an easy-to-read analog indicator having a broad scale.

Many experienced technicians consider that insulation measurements 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 measurements 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 isolation 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.

Mi5500e

Technical specifications

TEST VOLTAGES

500 V - 1 kV - 2.5 kV - 5 kV.

MAXIMUM RESISTANCE READING

1 TΩ @ 500 V.
2 TΩ @ 1 kV.
5 TΩ @ 2.5 kV.
10 TΩ @ 5 kV.

SHORT CIRCUIT CURRENT

1 mA ± 2%.

TEST VOLTAGES ACCURACY

± 2% of nominal test voltages on R ≥ 1 GΩ.

INTERNAL CURRENT LIMITING RESISTANCE

500 kΩ @ 500 V.
1 MΩ @ 1 kV.
2.5 MΩ @ 2.5 kV.
5 MΩ @ 5 kV.

INSULATION TESTER ACCURACY

Class 2 (± 2% of full scale deflection).

ANALOG INDICATOR

Class 1. Scale with up to 98 mm length, with extra fine pointer and mirror, thus avoiding parallax errors. Taut band system.

ENVIRONMENTAL PROTECTION

IP65 (with closed lid).

SAFETY CLASS

In accordance with IEC 61010-1.

ELECTROMAGNETIC COMPATIBILITY (E.M.C.)

In accordance with IEC 61326-1.

ELECTROMAGNETIC IMMUNITY

In accordance with IEC 61000-4-3.

ELECTROSTATIC IMMUNITY

In accordance with IEC 61000-4-2.

POWER SUPPLY

Internal rechargeable 12 V - 2.3 Ah, sealed lead acid battery.

BATTERY CHARGER

100 - 240 V~ mains supply.

OPERATING TEMPERATURE RANGE

23°F to 122°F (-5°C to 50°C).

STORAGE TEMPERATURE RANGE

-13°F to 158°F (-25°C to 70°C).

HUMIDITY RANGE

95% RH (non condensing).

EQUIPMENT WEIGHT

Approx. 8.6 lb (3.9 kg).

DIMENSIONS

10.78" x 9.84" x 4.88" (274 x 250 x 124 mm).

INCLUDED ACCESSORIES

2 Measuring test leads, 5.90 ft (1.8 meters).
1 GUARD test lead.
1 Charger power cord.
1 Operating instructions.
1 Carrying bag.