

# Mi5500e



## 5kV ELECTRONIC INSULATION TESTER

- ✓ **FOUR TEST VOLTAGES:  
500 V 1 kV 2.5 kV 5 kV**
- ✓ **INSULATION TEST UP TO  
10,000,000 MΩ**
- ✓ **MULTIPLE RANGES FOR  
ACCURACY  
IMPROVEMENT**
- ✓ **TAUT-BAND ANALOGUE  
METER**
- ✓ **GUARD TERMINAL**
- ✓ **HIGH ACCURACY**
- ✓ **IP54 PROTECTION**
- ✓ **RECHARGEABLE  
BATTERY**
- ✓ **CE MARK**

The **MI-5500e** general purposes megohmmeter is a truly portable equipment suitable to measure insulation resistances using test voltages up to 5kV. It employs high-reliable, state-of-the-art technology for accurate measurements of ultra high insulation resistances up to 10,000,000MΩ with four test voltages: 500V - 1kV - 2.5kV - 5kV. 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 and medium 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 megohmmeter 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 megohmmeter 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.

# MI 5500e - TECHNICAL SPECIFICATIONS

## FOUR 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 ≥ 1GΩ

## MEGOHMMETER ACCURACY

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

## INTERNAL CURRENT LIMITING RESISTANCE

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

## ANALOGUE INDICATOR

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

## ENVIRONMENTAL PROTECTION

IP54 with closed lid.

## SAFETY CLASS

Meets the requirements of IEC 61010-1:1990, IEC 61010-1:1992 amendment 2.

## E.M.C

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

## ELECTROSTATIC IMMUNITY

In accordance with IEC 1000-4-2.

## POWER SUPPLY

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

## BATTERY CHARGER

100 - 240 V~ mains supply.

## OPERATING TEMPERATURE RANGE

-5°C to 50°C.

## STORAGE TEMPERATURE RANGE

-25°C to 65°C.

## HUMIDITY RANGE

95% RH (non condensing).

## EQUIPMENT WEIGHT

Approx. 3.9 kg.

## DIMENSIONS

274 x 250 x 124 mm.

## INCLUDED ACCESSORIES

2 Measuring test leads (1.80 m).  
1 Guard test lead.  
1 Charger power cord.  
1 Protective case.  
1 Operating instructions.

CE MARK

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



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