

Mi20KVe

HIGH VOLTAGE MEGOHMMETER

- ✓ **INSULATION TEST UP TO 4.000.000MΩ**
- ✓ **4 TEST VOLTAGES: 5 kV, 10 kV, 15 kV AND 20 kV**
- ✓ **GUARD TERMINAL**
- ✓ **RECHARGEABLE BATTERY**
- ✓ **MULTIPLE SCALES FOR PRECISION IMPROVEMENT**
- ✓ **PORTABLE, ACCURATE & RUGGED**
- ✓ **IP54 PROTECTION**



The MI-20KVe High-Voltage Megohmmeter is a truly portable device that allows the measurement of insulation resistances using test voltages up to 20kV. It employs a state-of-the-art technology for the safe measurements of insulation resistances up to 4.000.000MΩ with four test voltages: 5kV - 10kV - 15kV and 20kV. Readings are performed through an easy-to-read analogue indicator, having a broad scale.

This equipment is specially well suited to test isolation resistances in transmission lines and medium voltage distribution systems, whether aerial or underground, as it allows to perform testing with voltages near to the operational value. Besides, it is an excellent auxiliary when detecting cable failures.

In order to maximize the operator's safety, this equipment was made within a plastic cabinet of high dielectric strength, with no metallic accessible parts. A light indicator warns about dangerous voltages presence, both in the equipment and in the element under testing, and switches off only when the discharge process has finished. This megohmmeter has a GUARD terminal that allows to avoid the effects of parasitic resistances and surface currents on the insulation resistances under test.

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 powered with a rechargeable battery, with a charger for 110V/220V. In order to protect the equipment, the cabinet is water and dust resistant. Protection grade is IP54, and the megohmmeter is supplied with a complete kit of high voltage test leads.

MI-20KVe :: TECHNICAL SPECIFICATIONS

TEST VOLTAGES

5 kV - 10 kV - 15 kV - 20 kV.

MAXIMUM RESISTANCE READING

1 TΩ @ 5 kV.
2 TΩ @ 10 kV.
3 TΩ @ 15 kV.
4 TΩ @ 20 kV.

SHORT CIRCUIT CURRENT

500 μA ± 5%.

TEST VOLTAGES ACCURACY

± 2% of nominal test voltages on R ≥ 10 GΩ.

MEGOHMMETER ACCURACY

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

INTERNAL CURRENT LIMITING RESISTANCE

10 MΩ @ 5 kV.
20 MΩ @ 10 kV.
30 MΩ @ 15 kV.
40 MΩ @ 20 kV.

ANALOGUE INDICATOR

Up to 98 mm scale length, taut band, with mirror.

ENVIRONMENTAL PROTECTION

IP54 with closed lid.

SAFETY CLASS

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

ELECTROSTATIC IMMUNITY

In accordance with IEC 61000-4-2.

ELECTRO MAGNETIC IRRADIATION IMMUNITY

In accordance with IEC 61000-4-3.

POWER SUPPLY

Internal rechargeable 12 V - 7 Ah sealed lead acid
battery.

BATTERY CHARGER

For 100-130 V or 220-240 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).

WEIGHT

Approx. 9.8 kg (including battery and accessories).

DIMENSIONS

378 x 308 x 175 mm.

INCLUDED ACCESSORIES

2 Measuring test leads (1.80 m).
1 GUARD test lead (1.80 m).
1 Charger power cord.
1 User guide.
1 Carrying bag.

CE MARK

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