

High Voltage Insulation Tester

Mi15KVe



Illustrative Image

Features

- Insulation resistances up to 3 TΩ
- 4 test voltages: 1 kV - 5 kV - 10 kV - 15 kV
- Guard terminal
- Rechargeable battery
- Multiple scales for accuracy improvement
- Taut-band analog meter
- Portable, accurate & rugged
- IP65 protection

Description

The **Mi15KVe** high-voltage insulation tester is a truly portable device that allows the measurement of insulation resistances using test voltages up to 15 kV. It employs a state-of-the-art technology for the safe measurements of insulation resistances up to 3,000,000 MΩ with four test voltages: 1 kV - 5 kV - 10 kV and 15 kV. Readings are performed through an easy-to-read analog indicator, having a broad scale.

This equipment is specially well suited to test insulation 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. 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 insulation tester 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 110 V / 220 V. In order to protect the equipment, the cabinet is water and dust resistant. Protection grade is IP65 (with closed lid), and the equipment is supplied with a complete kit of high voltage test leads.

Technical specifications

ELECTRICAL	
Mi15KVe	
Test voltages	1 kV - 5 kV - 10 kV - 15 kV
Maximum resistance reading	200 GΩ @ 1 kV 1 TΩ @ 5 kV 2 TΩ @ 10 kV 3 TΩ @ 15 kV
Short circuit current	1 mA
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	1 MΩ @ 1 kV 5 MΩ @ 5 kV 10 MΩ @ 10 kV 15 MΩ @ 15 kV
FEATURES	
Analog indicator	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	-5 °C to 50 °C
Storage temperature	-25 °C to 60 °C
Humidity range	95 % RH (non condensing)
POWER SUPPLY	
Rechargeable battery	Sealed lead acid battery, 12 V - 7 Ah
Battery charger	For 100-130 V~ or 220-240 V~ mains supply
MECHANICAL	
Weight	Approx. 9.7 kg, including battery and accessories
Dimensions	378 x 308 x 175 mm

Included accessories

- 2 Measuring test leads (1.80 m)
- GUARD test lead (1.80 m)
- 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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