DATASHEET
INSULATION TESTER
INA-6010kV



The Tinsley INA-6010kV high voltage insulation tester is a truly portable device that allows the measurement of insulation resistances using test voltages up to 10kV.

It employs a state-of-the-art technology for the safe measurements of insulation resistances up to 2,000,000 MΩ with four test voltages: 1 kV - 2 kV - 5 kV and 10kV.

Readings are performed through an easy-to-read analogue indicator, having a broad scale

DESCRIPTION

This equipment is especially 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. 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 equipment has a GUARD terminal that allows avoiding 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 / 220 V. In order to protect the equipment, the cabinet is water and dust resistant. Protection grade is IP65, and the equipment is supplied with a complete kit of high voltage test leads.

KEY FEATURES

- Insulation test up to 2 TΩ
- 4 test voltages:
- 1kV - 2kV - 5kV - 10kV
- Guard terminal
- Rechargeable battery
- Multiple scales for accuracy improvement
- Taut-band analogue meter
- Battery check
- IP65 protection

TECHNICAL SPECIFICATIONS

TEST VOLTAGES
1 kV, 2 kV, 5 kV, 10 kV.
MAXIMUM RESISTANCE READING
200 GΩ @ 1 kV. 400 GΩ @ 2 kV. 1 TΩ @ 5 kV. 2 TΩ @ 10 kV.
SHORT CIRCUIT CURRENT
1 mA.
TEST VOLTAGES ACCURACY
± 2% of nominal test voltages on R ≥ 10 GΩ.
EQUIPMENT ACCURACY
Class 2 (±2 % of full scale deflection).
INTERNAL CURRENT LIMITING RESISTANCE
1 MΩ @ 1 kV.
2 MΩ @ 2 kV.
5 MΩ @ 5 kV.
10 MΩ @ 10 kV.
ANALOGUE INDICATOR
Up to 3.86" (98 mm) scale length, taut band, with mirror.
ENVIRONMENTAL PROTECTION
IP65 with closed lid.
SAFETY CLASS
Meets the requirements of IEC 61010-1:1990, IEC 61010-1:1992 amendment 2.

ELECTROSTATIC IMMUNITY
In accordance with IEC 1000-4-2.
ELECTROMAGNETIC 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 - 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.
WEIGHT
Approx. 21.0 lb (9.5 kg.
DIMENSIONS
14.88" x 12.13" x 6.89" (378 x 308 x 175 mm.
INCLUDED ACCESSORIES
2 Measuring test leads 5.90 ft (1.8 meters.
1 GUARD test lead 5.90 ft (1.8 meters.
1 Charger power cord.
1 User guide.
1 Carrying bag.

tinsley
PRECISION INSTRUMENTS

Tinsley Precision Instruments
1 Warner Drive
Springwood Industrial Estate
Braintree, Essex
CM7 2YW

Tel: 01376 335271
E-mail: info@tinsley.co.uk
www.tinsley.co.uk