

Insulation / Continuity Tester



Standards Applied

Instrument operation:
IEC / EN 61557-1, IEC/EN 61557-2,
IEC / EN 61557-4, IEC/EN 61557-10

Electromagnetic compatibility:
EMC: IEC 61326 Class B

Safety:
EN/IEC 61010-1 (instrument),
EN/IEC 61010-2-31 (accessories)

Technical Specification

Insulation resistance

0 MΩ + 2 GΩ (500 V, 1000V)
0 MΩ + 200 MΩ (250V)
U_N: 250 V, 500 V, 1000 V ≡
I_N: >1 mA at 250 kΩ (250 V)
500 kΩ (500 V)
1 MΩ (1000 V)

I_{sc}: <2 mA

Continuity

R_{±200 mA}:
0 Ω + 2 kΩ
U_{o.c.}: 4 V + 7 V ≡
I (2 Ω): >200 mA

R_{CON}:

0 Ω + 2 kΩ
U_{o.c.}: 4 V + 7 V ≡
I_{s.c.}: <7 mA

Voltage / Frequency

U: 0 V + 600 V TRMS
f: 16 Hz + 450 Hz or ≡

General

Power supply	6 V DC (4 × 1.5V alkaline battery IEC LR14)
Typical operating time	>70 h
Auto power off	yes, approximately 10 min. of no activity
Display	custom LCD
Protection classification	Class II (double insulation)
Over-voltage category	CAT III 300V
Pollution degree	2
Protection degree	IP 40
Working temp. Range	0 °C + 40 °C
Dimensions (w × h × d)	280 x 70 x 80 mm
Weight (without access.)	420 g

Insulation Resistance

- **Three different test voltages** (250, 500 and 1000 V) provide the tests required for all installations encountered.
- **Extremely wide range** of measured insulation resistance (**up to 2 GΩ**) enables periodic analysis of changes in insulation material.
- **Automatic discharge** of the equipment under test after completion of the test.

Continuity

- 200 mA measurement with automatic polarity change.
- **Automatic compensation of test leads** (up to 5 Ω) eliminates lead resistance.
- **Continuous low current** resistance measurement for testing of electrical motors, inductive windings, transformers, etc.

RMS Voltage and Frequency

- Warnings are given if hazardous voltages are detected.
- Auto power-off.

Standard set

- Instrument GigaOhm 1 kV
- Measuring lead, 1.5 m black
- Measuring lead, 1.5 m red
- Test tip, black
- Test tip, red
- Carrying strap
- Instruction manual
- Declaration of conformity
- Product verification data

