

1kV INSULATION RESISTANCE TESTER

IRT1K



The IRT1K is a digital insulation resistance tester designed for electrical testing and maintenance applications. It supports multiple insulation test voltages from 50V to 1000V and can measure insulation resistance up to 20GΩ, making it suitable for checking cables, motors, panels, transformers, and electrical installations.

FEATURES

- Insulation resistance measurement up to 20GΩ
- Test voltages: 50V, 100V, 250V, 500V, 1000V
- Short-circuit test current >1mA for insulation testing
- Live circuit detection for user safety
- Low resistance / LoΩ test function
- AC/DC voltage measurement up to 1000V
- Safety rating: EN61010 600V CAT IV / 1000V CAT III



TECHNICAL SPECIFICATION

Function	Range	Accuracy
50V	300KΩ/3.00MΩ/30.0MΩ/300MΩ/1.00GΩ	±(3%rdg+5dgts) (30KΩ~1.00GΩ)
100V	600KΩ/6.00MΩ/60.0MΩ/600MΩ/2.00GΩ	±(3%rdg+5dgts) (60KΩ~2.00GΩ)
250V	1.50MΩ/15.0MΩ/150MΩ/1.50GΩ/5.0GΩ	±(3%rdg+5dgts) (0.15MΩ~1.50GΩ)±(10%rdg+3dgts)
500V	3.00MΩ/30.0MΩ/300MΩ/3.00GΩ/10.0GΩ	±(3%rdg+5dgts) (0.30MΩ~3.00GΩ)±(10%rdg+3dgts)
1000V	6.00MΩ/60.0MΩ/600MΩ/6.00GΩ/20.0GΩ	±(3%rdg+5dgts) (0.60MΩ~6.00GΩ)±(10%rdg+3dgts)

Range	Resolution	Accuracy	Protection
AC/DC Voltage 60.00V/600.0V /1000V	0.01V/0.1V/1V	±2%rdg+5dgts (AC: 45~500Hz)	1000Vrms
Resistance 600.0Ω/6.000KΩ/60.00KΩ/600.0KΩ	0.1Ω/0.001KΩ/0.01KΩ/0.1KΩ	2%rdg+5dgts	1000Vrms
Continuity 600.0Ω	0.1Ω	≅ 7Ω±1Ω	1000Vrms
LoΩ 6.00Ω/60.0Ω	0.01Ω/0.1Ω	2%rdg+3dgts	

Auto Power Off	35 mm max.
Certifications	EN61010 600V CAT IV, 1000V CAT III
Electromagnetic Compatibility	EN61326-1
Battery	1.5V size AA battery x 4
Dimensions	206 x 90 x 51 mm
Weight	515g