

## INTRODUCTION

This instrument is a digital insulation tester which adopts DC voltage converter of low consumption, high converter ratio, and inductance type energy storage to convert the voltage of 9V DC into 250V/500V/1000V DC. With digital bridge, the instrument can test insulation and its main features include Easy to operate, Wide test range, Highly stable performance, Backlit LCD display, Data hold and Auto power off. Using a shoulder strap, it can be used by both hands. It is an ideal instrument that can be used in testing insulation of electric machines, cables, electronic equipments, electric facilities, etc.



## GENERAL SPECIFICATIONS

- LCD size:** 84.8×59.8mm, Max. display 1999
- Over range indication:** displays "1" when exceeding upper limit
- Sampling rate:** approx.3 times/Sec.
- Low Battery Indication:** the LCD display "batt" symbol.
- Additional temperature coefficient:** 0.15 x specified accuracy/°C (<18° or >28°)
- Altitude:** <2000m
- Operation environment:** in-door use, pollution degree II temperature -15°C-55°C, relative humidity <75%RH
- Storage environment:** temperature -40°C~60°C, relative humidity <90%RH
- Power source:** AA battery (1.5V) x6 (or external 9V DC adapter).
- Power consumption:** before any measurement, the power consumption <300mW
- Fuse:** 100mA/60V resettable fuse
- Dimension:** 175 (L) x 110 (W) x 62.5 (D) mm
- Weight:** 580g (including battery)

## TECHNICAL SPECIFICATIONS

Accuracy: ±(a% rdg+ least effective digits).

**Optimum environment for accuracy:** temperature (23±5)°C, relative humidity <75%

Calibration warranty: 1 year from off-factory date

<b>Testing voltage</b>	250V±10%	500V±10%	1000V±10%
<b>Range</b>	200MΩ	200MΩ	2000MΩ
<b>Accuracy</b>	±(4.0%rdg+2)		
<b>Short circuit current</b>	1.7mA	1.7mA	1.4mA
<b>Median resistance</b>	2MΩ	2MΩ	5MΩ
<b>Terminal position</b>	E(MΩ), L(MΩ), G		

Range	Accuracy	Resolution	Input impedance
DC1000V	±(0.5%rdg+6)	1V	1MΩ
AC750V	±(1.0%rdg+6)	1V	
2kΩ	±(0.8%rdg+6)	1Ω	Testing current:1mA
Continuity Test	<50Ω beeper alarm, testing current 1mA		
Terminal	V/Ω(IN+), G(IN-)		

Voltage input impedance: 1MΩ

ACV frequency response: (50 ~ 200) Hz

### Standard Accessories

- 10A test lead x1 pair
- AA battery (1.5V) x6pcs
- Operation manual x1pcs
- Shoulder strap x1pcs
- Crocodile clip x1 pair