

IV. Electrical Specification

Accuracy: (%reading+digit) the warranty is one year

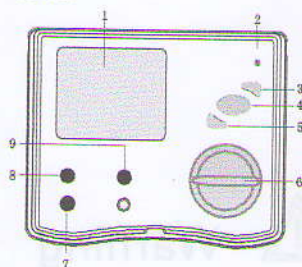
Environment temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Relative humidity: $<75\%$

1. Insulation Resistance

Testing Voltage	100V/250V/500V/1000V/2500V/5000V
Output voltage	90%-110% of the test voltage
Range	0.1 M -20G for 100/250V/500V
	0.1 M -200G for 1000V/2500V/5000V
Resolution	0.01M
Accuracy	0.1 M -200 M (3%rdg +5dgt)
	200 M -20G (5%rdg +10dgt)

V. Front Panel



1. LCD
2. High voltage LED indicator
3. Data holding button
4. Test button
5. Back-light button
6. Function rotatory selector
7. "E" input socket
8. "G" input socket
9. "L" input socket

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If necessary insert another black wire with small crocodile clamp into the "G" socket. The clamp connect to earth wire to eliminate the measurement error caused by the leak current in the surface of the product, and ensure the accuracy of the test and reading stability.

③ Test Voltage selection

Select the test voltage you need to measure the insulation resistance by turning the selector to the relevant voltage class.

④ Test Operation

Connect the other terminal of the wire to the object under test. Press the "Test/Stop" button, the red LED indicator turns on, indicating the high voltage generated.

When the test has started, the LCD of the instrument displays some readings. The value displayed by LCD is the insulation resistance of the object under test.

If load Rx is greater than maximum range, the LCD will display "1".

⑤ Turn off

When the test is over, press the "Test/Stop" button, the red indicator turns off, indicating the test high voltage has been disappeared. set the selector at "OFF" position, LCD displays nothing. For capacitive load, be sure to discharge the residual charges in the object under test before you remove the test wire.

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VI. Operation Instruction

1. Safety Precautions

- ① Be sure to confirm the high voltage on the object under test has been discharged, be careful of the high voltage shock after the insulation resistance test is over.
- ② Do not touch the object under test when the test is in process otherwise you should get electrical shock.
- ③ The object under test shall not be live and be sure to confirm the object under test is securely earthed when you test the insulation resistance. Short the two test terminals of the object under test to discharge before you start the test.
- ④ Do not lead any external voltage into the test loop when you test the insulation resistance.
- ⑤ Be sure to confirm the selector is in right position and the test wire is firmly connected before you start the test.
- ⑥ Up to 5000V high voltage is generated between "L" terminal and "E" terminal when the high voltage button has been pressed. Be sure not to touch any exposed part of instrument and the object under test, otherwise you may get electrical hazard.

2. Battery Voltage Inspection

Turn on the instrument, if LCD does not display "E" icon, it indicates the battery is good. If LCD displays nothing or display "E" icon, replace the batteries as described in the user manual.

3. Insulation Resistance measurement

① Connection of Test Terminals

Insert the red test lead into the "L" socket of the instrument and the plug of the black test lead with flat crocodile clamp into the "E" socket of the instrument.

② Test connection

The wiring of "E" socket of the instrument is the earth wire; The wiring of "L" socket of the instrument is the line wire. The "G" terminal socket of the instrument is the shield wire to test the high insulation resistance.

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VII. Maintenance

This instrument is a precision electronic instrument, be sure to maintain it well.

1. To replace battery, remove the probe and power off the instrument first. Unscrew the screws of the battery cover and remove the battery cover. Be sure to replace the battery according to the specification requirement.
2. Do not forget to remove the battery if you are not going to use the instrument for a long period of time. Place the instrument at a dry and well ventilated environment.
3. Do not change any internal circuit of this instrument.

VIII. Accessories

1. One copy of user manual.
2. 1 toolbox.
3. 1 sets of special test wires
4. 1.5V(R6P) AA batteries 8PCS

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rev.1