

Dear user: Thank you for using the ZY series insulation resistance tester. For the sake of your safety and safety, the instrument is in normal use. Please read the instructions carefully before proceeding.

The safety performance of this instrument conforms to international standards: IEC61010-1: 2001.

This instrument performs standards: Q/WHZY 003-2002.

1 Performance characteristics

- It is suitable for insulation test in the maintenance, test and verification of all kinds of electrical equipment.
- 31/2LCD Large screen digital display with high resolution and convenient reading.
- There are four kinds of rated insulation test voltage, strong load capacity.
- Easy to operate, easy to carry, accurate, reliable and stable.
- Low power consumption, 16V/1.8AH lithium battery power supply, long service life. (or powered by alternating current AC220V)
- The battery is under voltage and has undervoltage indications "⊖". “
- The utility model has the advantages of shockproof, dustproof and dampproof structure, and is suitable for bad working conditions.

2 Technical index

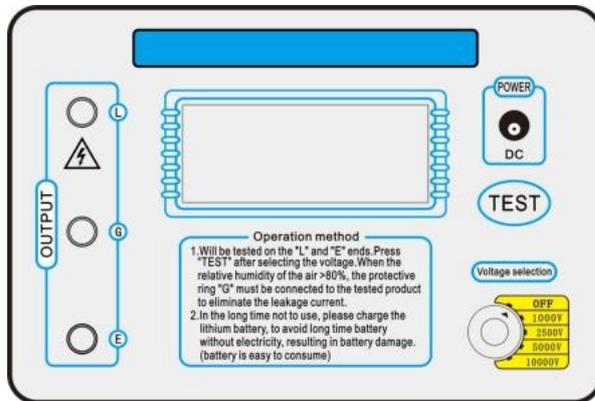
2.1 Main index

Model	ZY10000V
Rated voltage (V)	1000V,2500V; 5000V;10000V
Working voltage (V)	Rated voltage 220V±10% Load ≥20MΩ
Measuring range And Error	(1~1999)MΩ ±(5%RDG+2d) (2.00~199.9)GΩ ±(10%RDG+2d)
Output short-circuit current	≥1mA

2.2 Other indexes

- Insulation resistance: $\geq 50\text{M}\Omega$ (1000V)
- Pressure: AC 3kV 50Hz 1min
- Operating temperature and humidity: $-10^{\circ}\text{C}\sim+50^{\circ}\text{C}$ $<85\%\text{RH}$
- Power Supply: DC16V lithium battery
- Consume power: $\leq 150\text{mA}$;

3 Instrument appearance



4 Usage method

- Make sure the tested product is safely earthed and the test product is not charged.
- Confirm that the E (ground terminal) of the instrument has been earthed.
- After pressing the high voltage switch button, the instrument E and L end have high voltage output, please pay attention to safety!
- After testing, please turn off the high voltage and power supply in time.
- Outline size: 260mm(L)×180mm(W)×100mm(D)
- Weight: ≈2kg

4.1 Battery inspection and replacement

When the instrument is connected with the power supply, the display battery should replace the new battery if it shows the undervoltage sign, indicating that the battery is not enough.

4.2 Test

Connect the instrument E terminal to the ground end (or end) of the test piece, and the L end to the line end (or the other end) of the test sample. Set the switch to the desired voltage rating. The first display of the display is "1", indicating the power on. Press the high voltage switch button, and the high voltage indicator light is on. The value displayed on the display screen is the insulation resistance value of the tested product. When the insulation resistance of the sample exceeds the upper limit of the measuring range, the first place of the display is shown "1", and the last three bits are extinguished.

Note: when measuring, because of the absorption and polarization of the test sample, the insulation value readings gradually drift to big values or some jump up and down, which is a normal phenomenon.

4.3 The use of G terminals (protection rings)

The measurement of high insulation resistance value, should be between two sample measurement on the surface of a conductor terminal protection ring, and the conductor protection ring with a test line is connected to the G terminal of the meter, try to eliminate the measurement error caused by the surface leakage current, ensure accurate test.

4.4 Shutdown

After reading, press the high voltage switch, turn off the high voltage, the high voltage indicator goes out, and then turn the knob to OFF, turn off the power supply. For the capacitive test, the remaining charge on the test sample should be finished and then the test line shall be removed so as to avoid electrical injury.

5 Service commitment

- This instrument is guaranteed for one year. In the warranty period, the user follows the rules of transportation, storage and use, and has quality problems. The company is responsible for the warranty.
- If the instrument fails, we should ask the full-time maintenance personnel or send back to the company to repair, not to disassemble the

instrument, so as not to increase the cost of repair and cause the instrument can not be repaired.

Packing list

- 1.A set of measuring lines (red, black each)
- 2.Power adapter one
- 3.A manual
- 4.Factory inspection report a copy

Note: the specifications described in this specification are only suitable for the instrument you are using. If the instrument is modified, no notice will be given