

6. Rotary knob set to 500V/1000V/2500V:
to select test voltage for insulation resistance measurement.

7. Preparations before Measurement

If low battery indicator shows on upper left corner of LCD after the meter is turned on, it means battery is almost used up and need to be replaced.

Low voltage symbol	Battery voltage
	7V or even less

8. AC Voltage Measurement (See Figure 1)

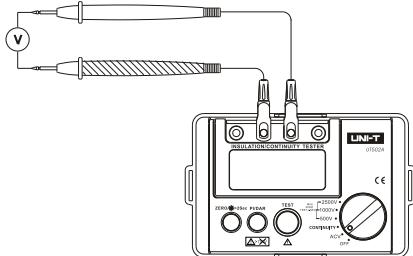


Figure 1

- (1) Set the rotary knob to ACV.
- (2) Insert the red test lead into "V" jack and the black test lead into "G" jack.

⚠ Caution

- * Do not input voltage higher than 750Vrms. It is possible to display higher voltage, but it may damage the instrument.
- * Please take extreme caution in order to avoid electric shock when measuring high voltage.
- * Disconnect test leads and tested circuits and remove test leads away from input jacks after completing the measurement.
- * If battery cover is opened, do not measure.

9. Low Resistance Measurement (See Figure 2)

⚠ Wiring method:

- (1) Before insulation resistance measurement, the circuit under test shall be discharged completely and be totally isolated from power circuit.
- (2) Insert red test lead into EARTH port, black test lead into G port.
- (3) Connect red, black alligator clip or test probe with the circuit under test.

With the instrument connected to tested circuit as described above, turn rotary switch to CONTINUITY, press TEST, ground continuity measurement will be conducted.

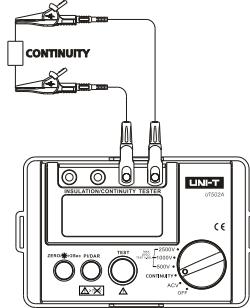


Figure 2

10. Insulation Resistance Measurement (See Figure 3)

⚠ Caution:

Before test, make sure no electricity exist in circuit under test. Do not measure insulation of charged equipment or line.

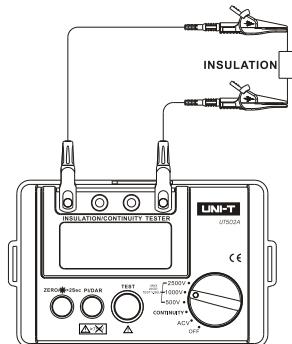


Figure 3

- * Do not measure when the battery cover is opened.

⚠ Caution:

Do not short-circuit the test leads under high-voltage output status or make insulation measurement after high voltage has already been output.

- Turn the knob to select test voltage 500V/1000V/2500V.
- (1) Before measuring insulation resistance, the circuit-under-test must be fully discharged and isolated from power circuit.
- (2) Insert red test lead into "LINE" input port, black test lead into "EARTH" input port.
- (3) Connect red, black alligator clip with circuit-under-test, positive voltage output is from LINE port.
- Continuous measurement

With the knob already set to test voltage 500V/1000V/2500V, then press TEST button, the instrument will be self-locked to measure continuously. The test voltage will be output and TEST button will light up. With the measurement finished, press TEST button to unlock and stop the measurement.

⚠ Caution:

- * Before test, make sure no electricity exist in circuit under test. Do not measure insulation of charged equipment or line.
- * In completion of test, do not touch circuit. Stored capacity in the circuit may cause electric shock.

- * When red and black clips are connected to the circuit under test, high voltage is output from LINE jack and the current from EARTH jack.
- * Do not measure when the battery cover is opened.

● Polarization index measurement

Under insulation measurement mode, press PI/DAR button once to select PI parameter, the screen displays Time 1(1min)/Time2(10mins), then press TEST to start PI measurement.

● Dielectric absorption ratio measurement

Under insulation measurement mode, press PI/DAR button two times to select DAR parameter, the screen displays Time 1(30s)/Time2(1min), then press TEST to start DAR measurement. Press TEST three times to select another DAR, the screen shows Time 1(15s)/Time2(1min), press to begin another DAR measurement.

11. Battery Replacement (See Figure 4)

⚠ Danger

To avoid possible electric shock, remove wire from the instrument when replacing battery.

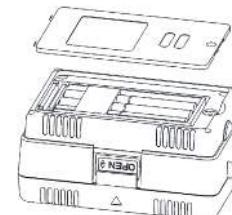


Figure 4

⚠ Caution

- * Mixed use of new and old batteries is not allowed.
- * Please note battery polarity when installing battery.

⚠ Danger

- * Do not measure when battery box is open.
- * If "■" appears on LCD, it means battery shall be replaced. Please follow the steps below:

- (1) Turn off power (set the knob to OFF), and move test lead line away.
- (2) Loosen screw on battery box, move the cover, and replace 6 batteries.
- (3) After replacing battery, make sure screw is secured.

12. Maintenance

Cleaning the housing

- Clean the instrument surface with soft cloth or sponge dampened with clean water.
- To avoid damage to the instrument, do not submerge it into the water.
- If the instrument is wet, dry it before storage.
- When it is necessary to verify or repair instrument, please deliver the instrument to qualified professional serviceman or designated repairing department.

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