



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2.2.9 Diode and Audible continuity test

Range	Description	Test Condition
	Display read approximately forward voltage of diode	Forward DC current approx. 0.4mA Reversed DC voltage approx. 1.5V
	Built-in buzzer sounds if resistance is less than 100Ω	Open circuit voltage approx. 0.5V

Overload protection: 250V DC or AC rms

3. MEASURING INSTRUCTION

3.1 DC & AC Voltage measurement

1) Connect the black test lead to "COM" socket and red test lead to the "VΩHz" socket.

2) Set the selector switch to desired "V \sim " position, it shows symbol for testing DC voltage, if you want to test AC voltage, push "SELECT" button switch.

3) Connect test leads across the source or load under measurement.

4) You can get reading from LCD. The polarity of the red lead connection will be indicated along with the DC voltage value.

3.2 DC Current Measurement

1) Set the selector switch to desired "200A $\overline{\sim}$ " or "1000A $\overline{\sim}$ " position.

2) Press the "REL" the display show "0".

Note: As the jaw core may remain some magnetic force after using for a while. If the display can not reach "0" When press the "REL", please take following process to correct it:

A. To change the direction of the measured DC current.

B. Open the JAWS several times.

3) Open the clamp by pressing the jaw-opening handle and insert the cable (one cable only) to be measured into the jaw.

4) Close the clamp and get the reading from the LCD panel.

Note: Before this measurement, disconnect the test lead with the meter for safety. Non unit sign display of DCA.

3.3 AC Current measurement

1) Set selector switch to desired "400/1000A \sim " position.

2) Open the clamp by pressing the jaw-opening handle and insert the cable (one cable only) to be measured into the jaw.

3) Close the clamp and get the reading from the LCD panel.

Note:

a) Before this measurement, disconnect the test lead with the meter for safety.

b) In same occasion that the reading is hard to read, push the D.HOLD button and read the result later.

3.4 Resistance measurement

1) Connect the black test lead to "COM" socket and red test lead to the "VΩHz" socket.

2) Set the selector switch to desired "Ω" position, the present function is resistance measurement, if it is other function, push the SELECT to select resistance measurement.

3) Connect the probes across circuit to be tested.

4) Read the result from the LCD panel.

Caution: Ensure that the circuit to be tested is "dead".

Max. input over-load: 250V rms < 10sec

3.5 Capacitance measurement

1) Connect the black test lead to "COM" socket and red test lead to the "VΩHz" socket.

2) Set the selector switch to desired "Ω \rightarrow \rightarrow →" position, push "SELECT" to choose Capacitance measurement.

3) Connect the probes to the capacitance to be tested.

4) Read the result from the LCD panel.

Caution:

a) Capacitors should be discharged before being tested.

b) This device adopts charging mode to measure capacitance, so when testing large capacitance, it will take longer time before the final indication, and the larger capacitor, the longer the time (For 100uF range, it will take about 15 seconds).

c) When testing small capacitance, to assure the measurement accuracy, first press "REL", then go on measuring.

Max. input over-load: 250V rms < 10sec

3.6 Frequency measurement

1) Connect the black test lead to "COM" socket and red test lead to the "VΩHz" socket.

2) Set the selector switch to desired "Hz" position.

3) Connect the probes to the point of measurement and read the frequency from the display.

Max. input over-load: 250V rms < 10sec

3.7 Temperature measurement

1) Connect the black test lead of the sensor to "T-" socket and the red test lead to the "T+" socket.

2) Set the selector switch to "°C" position.

3) Put the sensor probe into the temperature field under measurement.

4) Read the result from the LCD panel.

Max. input over-load: 250V rms < 10sec

A. The temperature function shows the random number at ordinary times, must insert the thermocouple in temperature test hole while examining temperature.

B. This meter in closure WRNM-010 type contact thermocouple limit temperature is 250 °C (300 °C shortly).

C. Please don't change the thermocouple at will, otherwise we can't guarantee to measure accuracy.

D. Please don't importing the voltage in the temperature function.

3.8 Diode & Audible continuity Testing

1) Connect the black test lead to "COM" socket and red test lead to the "VΩHz" socket.

2) Set the rotary switch at the "Ω \rightarrow \rightarrow →" range position, push "SELECT" to choose Diode or Audible continuity measurement.

3) On diode range, connect the test leads across the diode under measurement, display shows the approx. forward voltage of this diode.

4) On Audible continuity range, connect the test leads to two point of circuit, if the resistance is lower than approx. 100Ω, the buzzer sounds.

NOTE: Make sure the power is cut off and all capacitors need to be discharged under this measurement.

Max. input over-load: 250V rms < 10sec

3.9 Connect to mobile phone APP

The meter has serial data output function. It can be connected with mobile phone by Bluetooth, so the measured data can be recorded, analyzed, and processed by mobile phone APP. Before use this function, you need install the mobile phone APP by scan the QR code.

△NOTE: The mobile phone APP can be installed in iphone 4S iOS or android 4.30 system and up.

1) Make sure the "CLAMP METER" mobile phone APP successfully installed before any measurement.

2) Open the Bluetooth of the mobile phone, Run the "CLAMP METER" mobile phone APP to enter the main interface.

3) Turn on the meter, the meter will connect to mobile phone automatically, when the "Start" key change to green, click the "Start" key to measure and view the synchronic data or graph in the mobile phone APP.

4) The MAX or MIN value and corresponding time will display on the mobile phone APP, and the average value in a period of time from start measurement will display too.

5) Press the "Reset" key to reset measurement, the old data will be cleared and resume data recording. Press the "Stop" key to stop connection.

6) Press the "Data" key to view the data and time, Press the "Graph" key to view the graph, Press the "Save" key to save the data or the graph. Press the "Home" key to return the main interface.

7) More information about the mobile phone APP, please refer to the Help topic including in the APP.

4. CARE AND MAINTENANCE

4.1 CARING FOR YOUR MULTIMETER

Your Digital Multi meter is an example of superior design and craftsmanship.

The following suggestions will help you care for the multi meter so you can enjoy it for years.

1) Keep the multi meter dry. If it gets wet, wipe it dry immediately. Liquids can contain minerals that can corrode electronic circuits.

2) Use and store the multi meter only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries and distort or melt plastic parts.

3) Handle the multi meter gently and carefully. Dropping it can damage the circuit boards and cause and can accuse the multi meter to work improperly.

4) When take current measurement, keep the cable at the center of the clamp will get more accurate test result.

5) Keep the multi meter away from dust and dirt, which can cause premature wear of parts.

6) Wipe the multi meter with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the multi meter.

7) Use only fresh batteries of the required size and type. Always remove old or weak batteries. They can leak chemicals that destroy electronic circuits.

8) Please take out the battery when not using for a long time.

4.2 9Volt battery replacement

1) Ensure the instrument is not connected to any external circuit. Set the selector switch to "OFF" position and remove the test leads from the terminals.

2) Open the cover of the battery cabinet by a screwdriver.

3) Replace the old batteries with the same type batteries.

4) Close the battery cabinet cover and fasten the screw.

Above picture and content just for your reference. Please be subject to the actual products if anything different or updated. Please pardon for not informing in advance.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

FCC ID: 2A7T4-HP-7200-APP

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FCC ID: 2A7T4-HP-570C-APP