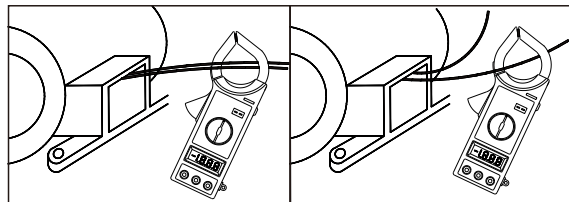


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2. When only the figure "1" displayed, it indicates overrange situation and the higher range have to be selected.



WRONG

CORRECT

3.2 Insulation Test (Option 500V insulation tester unit)

1. Connect the insulation tester unit VΩ, COM, EXT three-banana plugs to the clamp meter VΩ, COM, EXT.
2. Set the rotary switch of clamp meter at 2000MΩ position.
3. Set the insulation tester unit range switch to the 2000MΩ position.
4. Uses the insulation tester unit of the test leads connects its L, E input connect to being tested installations. (Test installation's must be power OFF)
5. Set the insulation tester power switch to the ON position.
6. Depress the PUSH 500V push-push switch; the 500V on red LED lamp will light. Clamp meter display reading is the insulation resistance value. If the reading is below 19MΩ, change clamp meter and insulation tester unit to 20MΩ range, can be increasing the accuracy.
7. If the insulation tester unit is not use, the power switch must shift to power OFF position, and the test leads must leave the E. L input connect. That can be increase battery life and prevent electrical shock hazard.

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3.3 Measuring Voltage

1. Connect the black test lead to the COM jack and the red test lead to the VΩ jack.
2. Set the rotary switch at the desired V $\overline{\text{---}}$ or V \sim range position and connect test leads across the source or load under measurement. The polarity of the red lead connection will be indicated along with the voltage value when making DC voltage measurement.
3. When only the figure " 1 " is displayed, it indicates overrange situation and the higher range has to be selected.

3.4 Measuring Resistance

1. Connect the black test lead to the COM jack and the red test lead to the VΩ jack.
2. Set the rotary switch at desired Ω position and connect test leads across the resistor under measurement.

Note:

1. If the resistance being measured exceeds the maximum value of the range selected or the input is not connected, an overrange indication " 1 " will be displayed.
2. When checking in - circuit resistance, be sure the circuit under test has all power removed and that all capacitors have been discharged fully.

3.5 Testing Diode

1. Connect the black test lead to the COM jack and the red test lead to the VΩ jack. (The polarity of red lead is " + ")
2. Set the rotary switch at \rightarrow position and connect red lead to the anode, black lead to the cathode of the diode under testing. The meter will show the approx. forward voltage of the diode. If the lead connection is reversed, only figure " 1 " displayed.

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3.6 Continuity Test

1. Connect the black test lead to the COM jack and the red test lead to the VΩ jack. (The polarity of the red lead is positive " + ")
2. Set the rotary switch at \rightarrow position and connect test leads across two points of the circuit under testing. If continuity exists (i.e., resistance less than about 100Ω), built -in buzzer will sound.

3.7 Measuring Temperature

1. Set the rotary switch at °C or °F position and the LCD display will show the current environment temperature.
2. Insert " K " type thermocouple into the temperature measuring socket on the front panel and contact the object to be measured with the thermocouple probe. Read LCD display.

⚠ WARNING:

To avoid electric shock, be sure the thermocouple has been removed before changing to another function measurement.

3.8 Measuring Frequency

1. Connect the black test lead to the COM jack and the red test lead to the VΩ jack.
2. Set the rotary switch at Hz position and connect test leads across the source or load under measurement.

NOTE:

1. Reading is possible at input voltage above 10V rms. but the accuracy is not guaranteed.
2. In noisy environment, it is preferable to use shield cable for measuring small signal.

4. Specifications

Accuracy is specified for a period of one year after calibration and at 18°C to 28°C (64°F to 82°F) with relative humidity to 80%.

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4.1 General

Display	3 1/2 digit LCD, with automatic polarity indication
Terminals and earth ground	1000V dc or 750V rms ac (sine)
Measuring Method	Dual-slope integration A-D converter
Overrange Indication	"1" Figure only in the display
Polarity indication	"-" displayed for negative polarity
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Environment	-10°C to 50°C (14°F to 122°F)
Power	9V alkaline or carbon-zinc battery (6F22 or equivalent)
Accessories	Operating manual ,set of test leads
Low Battery Indication	"BAT" to left of display
Optional Accessories	Thermocouple (K type)
Dimension	96(W) X 235(D) X 46(H) mm
Weight	330g(including battery)

4.2 AC Current

Range	Resolution	Accuracy
200A	0.1A	±2.5% of rdg ±5 digits
1000A	1A	±3.0% of rdg ±10 digits

Frequency Range: 50Hz to 60Hz

Response: Average, Calibrated in rms of sine wave

Overload protection: 1200A within 60 seconds. Jaw Opening: Φ50mm

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4.3 Insulation Test

(With option 500V insulation tester unit)

Range	Resolution	Accuracy	Note
20MΩ	1kΩ	±2.0% of rdg ±2 digits	
2000MΩ	1MΩ	±4.0% of rdg ±2 digits	≤ 500MΩ
		±5.0% of rdg ±2 digits	>500MΩ

4.4 AC Voltage

Range	Resolution	Accuracy
200V	0.1V	±1.0% of rdg ±5 digits
750V	1V	±1.2% of rdg ±5 digits

Input Impedance: ≥9MΩ on all ranges

Overload protection: 1000V DC or 750V AC on all ranges

Frequency Range:(50Hz to 400Hz) / ≤ 600V;
(50Hz to 200Hz) / 750V.

Response: Average, calibrated in rms of sine wave

4.5 Dc Voltage

Range	Resolution	Accuracy
2V	1mV	±0.5% of rdg ±3 digits
20V	10mV	
200V	0.1V	±0.8% of rdg ±3 digits
1000V	1V	

Input Impedance: ≥9MΩ

Overload protection: 250Vrms AC for 200mV range,

1000V DC or 750V AC for other range.

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4.6 Resistance

Range	Resolution	Accuracy
200Ω	0.1Ω	±1.0% of rdg ±5digits
2kΩ	1Ω	±1.0% of rdg ±8digits
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	

Overload protection: 250V DC or 250Vrms AC on all ranges.

Open circuit voltage: 700mV

4.7 Frequency

Range	Resolution	Accuracy
2kHz	1Hz	±2.0% of rdg ±5digits

5. Accessories

COME WITH THE CLAMP METER

Test Leads Model: T3000

Battery 9V 6F22 or equivalent

Operation Manual

6. Battery Replacement

If the sign "BAT" appears on the LCD display, it indicates that battery should be replaced. Remove the battery cover of case. Replace the exhausted battery with a new one.

⚠ WARNING

Before attempting to open the battery cover, be sure that test leads have been disconnected from measurement circuits to avoid electric shock hazard.

⚠ WARNING

Using this appliance in an environment with a strong radiated radio-frequency electromagnetic field (approximately 3V/m) may influence its measuring accuracy.



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