

Operating Instructions

DC Voltage Measurement

1. Connect the red test lead to the “V” jack and the black lead to the “COM” jack.
2. Set rotary switch at desired 1000V $\overline{\text{---}}$ position.
3. Connect test leads across the source or load being measured.
4. Read voltage value on the LCD display along with the polarity of the red lead connection.

AC Voltage Measurement

1. Connect the red test lead to “V~” jack and the black test lead to the “COM” jack.
2. Set the rotary switch at desired 750V~ position.
3. Connect test leads across the source or load being measured.
4. Read voltage value on the LCD display.

AC Current Measurement

1. Set the rotary switch at desired A~ position.
2. Press the trigger to open transformer jaw and to clamp one conductor only, making sure that the jaw is firmly closed around the conductor.
3. Read current value on LCD display.
4. When only the figure “1” is displayed, it indicates overrange situation and the higher range has to be selected.

Resistance Measurement

1. Connect the red test lead to “ $\Omega \rightarrow$ ” jack and black test lead to the “COM” jack (The polarity of red lead is positive “+”).
2. Set the rotary switch at desired “ Ω ” range position.

3. Connect test leads across the resistor to be measured and read LCD display.
4. If the resistance being measured is connected to a circuit, turn off power and discharge all capacitors before applying test probes.

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.

Audible Continuity Test

1. Connect red test lead to “ $\Omega \rightarrow$ ” jack, black test lead to “COM” jack.
2. Set range switch to “ \rightarrow ” position.
3. Connect test leads to two points of circuit to be tested. If continuity exists, built-in buzzer will sound.

Diode Test

1. Connect the red test lead to “ $\Omega \rightarrow$ ” jack and the black test lead to the “COM” jack (The polarity of red lead is positive “+”).
2. Set the rotary switch at “ \rightarrow ” position.
3. Connect the red test lead to the anode of the diode to be tested and the black test lead to the cathode of the diode. The approx. forward voltage drop of the diode will be displayed. If the connection is reversed, only figure “1” will be shown.

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%.

General

Maximum voltage between terminals and earth ground	CAT II 1000V and CAT III 600V
Display	LCD, 1999 counts, updates 2-3/ sec.
Polarity indication	“-” displayed for negative polarity.
Overrange Indication	Only figure “1” on the display.
Jaw opening capability	42mm (Max conductor size)
Power	9V battery, NEDA 1604 6F22 006P.
Low battery indication	“ \rightarrow ” Appears on the display.
Operating Environment	0 to 40°C
Storage temperature	-10°C to 50°C
Temperature coefficient	0.1×specified accuracy) / °C (<18°C or >28°C)
Altitude	2000m
Size	250mm×99mm×43mm
Weight	Approx.460g.

DC Voltage

Range	Resolution	Accuracy
1000V	1V	±1.0% of rdg ±2 digits

Input Impedance: 10M Ω

AC Voltage

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

Input Impedance: 10M Ω

Frequency range: 40Hz to 400Hz. Response: Average responding, calibrated in rms. of a sine wave.

AC Current

Range	Resolution	Accuracy
20A	0.01A	± 2.0% of rdg ±5 digits
200A	0.1A	± 2.0% of rdg ±5 digits
1000A	1A	± 2.0% of rdg ±7 digits

Overload Protection: 1200A for 60 seconds maximum. Frequency range: 50Hz to 60Hz.

Resistance

Range	Resolution	Accuracy
200 Ω	0.1 Ω	± 1.0% of rdg ± 3 digits
2000 Ω	1 Ω	± 1.0% of rdg ± 3 digits

Continuity

Range	Description
\rightarrow)	If continuity exists (about less than 60 Ω), built-in buzzer will sound.

Replacing The Battery

⚠ WARNING
To avoid electric shock, make sure that the test leads have been clearly move away from the circuit under measurement before opening the battery cover of the meter.

- 5.1.1 If the sign “ \rightarrow ” appears, it means that the battery should be replaced.
- 5.1.2 Loosen the fixing screw of the battery cover and remove it.
- 5.1.3 Replace the exhausted battery with new one.
- 5.1.4 Put the battery cover back and fix it again to its origin form.

Note:

Do not reverse the polarity of the battery.

Replacing Test Leads

Replace test leads if leads become damaged or worn.

⚠ WARNING
Use meet EN 61010-031 standard, rated CAT II 1000V, or better test leads.

Accessories

- Operator's instruction manual
- Set of test leads
- Gift box
- 9 volt battery. NEDA 1604 6F22 006P type.

⚠ CAUTION:

Using this appliance in an environment with a strong radiated radio-frequency electromagnetic field (approximately 3V/m), may influence its measuring accuracy. The measuring result can be strongly deviating from the actual value.

