DIGITAL CLAMP METER

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 = position.
- 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

- 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.
- 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

- Connect the red test lead to "Ω" 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.

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

NOTE:

- 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.
- When checking in-circuit resistance, be sure the circuit under test has all power removed and that all capacitors have been discharged fully.

FREQUENCY MEASUREMENT

- Connect the red test lead to "V/Hz" jack and the black test lead to the "COM" jack.
- 2. Set the rotary switch at desired 2kHz position.
- 3. Connect test leads across the source being measured.
- 4. Read Frequency value on the LCD display.

NOTE

The input voltage of source being measured be not more than 750V, When the input voltage more than 750V which can damage of electronic current of the meter.

AUDIBLE CONTINUITY TEST

- Connect red test lead to "Ω" jack, black test lead to "COM" iack.
- 2. Set range switch to " ••••) " position.
- Connect test leads to two points of circuit to be tested. If continuity exists, built-in buzzer will sound.

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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

CAT II 1000V and CAT III 600V	
LCD,1999 counts, updates 2-3/ sec.	
y indication "-"displayed for negative polarity.	
Only figure "1" on the display.	
42mm (Max conductor size)	
9V battery, NEDA 1604 6F22 006P.	
" <u>-</u> +"Appears on the display.	
0 to 40°C	
-10°C to 50°C	
0.1×specified accuracy) / °C (<18°C or >28°C)	
2000m	
250mm×99mm×43mm	
Approx.416g.	

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DC Voltage

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

Input Impedance: $10M\Omega$

AC Voltage

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

Input Impedance: 10MΩ

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

AC Current

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

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

Resistance

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

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Frequency

Range	Resolution	Accuracy	
2kHz	1Hz	±1.0% of rdg ± 2 digits	

Frequency measuring range: 50Hz to 1kHz. Input voltage range: 100V to 750V.

Continuity

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

Replacing The Battery

⚠ WARNING

Before attempting to open the case of battery, always be sure that test leads have been disconnected from measurement circuits. Close case and tighten screws completely before using the meter to avoid electrical shock hazard.

If "=="appears on display, it indicates that the battery should be replaced. Use the following procedure to replacing the battery:

- Disconnect test leads from any live source and remove the test leads from the input terminals of the meter.
 Push the ON/OFF switch to OFF.
- The battery cover is secured to the bottom case by a screw. Using a screwdriver, remove the screw from the battery cover and remove the battery cover.

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- 3. Remove battery and replace with a new equivalent 9 volt battery.
- 4. Replace the battery cover and reinstall the screw.

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.



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