

GENERAL SPECIFICATIONS

- The instrument complies with: EN61010-1.
- Insulation : Class2, Double insulation.
- Overvoltage category : CATII 1000V.
- Display : 3-3/4 Digits 4000 counts Backlit LCD display with function indication.
- Polarity : Automatic, (-) negative polarity indication.
- Overrange : "OL" mark indication.
- Low battery indication : The "BAT" is displayed when the battery voltage drops below the operating level.
- Measurement rate : 2 times per second, nominal.
- Auto power off : Meter automatically shuts down after approx. 30 minutes of inactivity.
- Operating environment : 0°C to 50°C (32°F to 122°F) at < 70% RH.
- Storage temperature : -20°C to 60°C (-4°F to 140°F) at < 80% RH.
- For inside use, max height : 2000m
- Pollution degree : 2
- Power : One 9V battery , NEDA 1604, IEC 6F22.
- Dimensions : 146 (H) x 66.2 (W) x 41.5 (D) mm
- Weight : Approx.: 200g.
- Double Injection Molded body
- Terminal Blocking facility
- 500V DC/AC RMS protection on all ranges.**

TECHNICAL SPECIFICATIONS

Accuracy is given at 18°C to 28°C (65°F to 83°F), < 70% RH. Accuracy stated as ±(% of reading + no. of digits)

DC Voltage (Auto Ranging)

Range	Resolution	Accuracy
400.0mV	0.1mV	±0.5% ± 2
4.00V	1mV	± 1.2% ± 2
40.00V	10mV	
400.0V	100mV	
1000V	1V	± 1.5% ± 2

Input Impedance : 10MΩ
Maximum Input : 1000V DC or 1000V AC rms.

AC Voltage (Auto Ranging)

Range	Resolution	Accuracy
4.00V	1mV	±1.2% ± 3
40.00V	10mV	± 1.5% ± 3
400.0V	100mV	
1000V	1V	±2.0% ± 4

Input Impedance : 10MΩ
Frequency Range : 50 to 400Hz
Maximum Input : 1000V DC or 1000V AC rms.

DC Current (Auto Ranging for uA, mA, A)

Range	Resolution	Accuracy
400.0uA	0.1uA	±1.0%±3
4000uA	1uA	±1.5%±3
40.00mA	10uA	
400.0mA	100uA	
4A	1mA	±2.5%±5
20A	10mA	

Overload Protection : 0.5A / 250V and 20A / 250V Fuse
Maximum Input : 400mA DC or AC r rms on uA/ mA ranges, 20A DC or AC rms on 4A, 20A range.

9V Battery Test

Range	Resolution	Accuracy
9V	10mV	±1.0%±3

Test current : 6mA
Overload protection : 500V DC or AC rms

*Technical Specifications & Appearance are subject to change without prior notice



Frequency (Auto Ranging for uA, mA, A)

Range	Resolution	Accuracy
9.999Hz	0.001Hz	±1.5%±5
99.99Hz	0.01Hz	
999.9Hz	0.1Hz	±1.2%±3
9.999kHz	1Hz	
99.99kHz	10Hz	
999.9kHz	100Hz	
9.999MHz	1kHz	±1.5%±4

Sensitivity : < 0.5V RMS while ≤ 1MHz
Sensitivity : > 3V RMS while > 1MHz
Overload protection : 500V DC or AC rms

Duty Cycle

Range	Resolution	Accuracy
0.1%-99.9%	0.1%	±1.2% ± 2

Pulse width : > 100us, <100ms;
Frequency : 5Hz – 150kHz
Sensitivity : <0.5V RMS
Overload protection : 500V DC or AC rms

Clamp DC Current

Range	Resolution	Accuracy
400A	0.1A	±1.0%±3 (meter only, Clamp-on Adaptor accuracy not included)

Sensor : Clamp-on Adaptor (Note: not provide)
Overload protection : 500V DC or AC rms.

Clamp AC Current

Range	Resolution	Accuracy
400A	0.1A	±1.5%±3 (meter only, Clamp-on Adaptor accuracy not included)

Sensor : Clamp-on Adaptor (Note: not provide)
Frequency Range : 50 to 400 Hz
Overload protection : 500V DC or AC rms.

Diode Test

Test current	Resolution	Accuracy
0.3mA typical	1mV	±1%±5

Open circuit voltage : 1.5V DC typical
Overload protection : 500V DC or AC rms

Audible continuity

Audible threshold : < 50Ω; Test current <0.3mA
Overload protection : 500V DC or AC rms

AC Current (Auto Ranging for uA, mA, A)

Range	Resolution	Accuracy
400.0uA	0.1uA	±1.5%±5
4000uA	1uA	±1.8%±5
40.00mA	10uA	
400.0mA	100uA	
4A	1mA	
20A	10mA	±3%±7

Overload Protection : 0.5A / 250V and 20A / 250V Fuse
Frequency Range : 50 to 400 Hz
Maximum Input : 400mA DC or AC r rms on uA/ mA ranges, 20A DC or AC rms on 4A, 20A range.

Resistance (Auto Ranging)

Range	Resolution	Accuracy
400.0Ω	0.1Ω	±1.2%±4
4.000kΩ	1Ω	±1.0%±2
40.00kΩ	10Ω	
400.0kΩ	100Ω	±1.2%±2
4.000MΩ	1kΩ	
40.00MΩ	10kΩ	±2.0%±3

Input Protection : 500V DC or AC rms.

Capacitance (Auto Ranging)

Range	Resolution	Accuracy
40.00nF	10pF	±5.0%±7
400.0nF	0.1nF	±3.0%±5
4.000uF	1nF	
40.00uF	10nF	
100.0uF	0.1uF	±5.0%±5

Input Protection : 500V DC or AC rms.

Temperature

Range	Resolution	Accuracy
-20°C~+760°C	1°C	±3%±3
-4°F~+1400°F	1°F	

Sensor : Type K Thermocouple
Overload protection : 500V DC or AC rms

OPTIONAL ACCESSORIES:

- Infra-red non contact temperature adaptor to measure temperature from -30°C to 550°C with fixed emissivity of 0.95 and distance to sighting ratio of 8:1. Model TS-03
- Clamp on Current Adaptor to measure current up to 1000A. Model CA-1000D
- Clamp on Current Adaptor to measure upto 200A AC. Model CA-01