

Input Limits	
Function	Maximum Input
V DC or V AC	CATIII-600V DC /AC
mA DC/AC	200mA DC/AC
A DC/AC max every 15 minutes)	10A DC/AC (30 sec.
Resistance, Diode test, Continuity, Temperature	500V DC/AC

GENERAL SPECIFICATIONS

The instrument complies with	: EN61010-1.
Insulation	: Class2, Double insulation
Overtoltage category	: CATIII 600V
Display	: 3-¾ Digits. 4000 counts 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. 15 minutes of inactivity.
Operating environment	: 0°C to 50°C (32 °F to 122 °F) at < 70% relative humidity.
Data Hold	: To freeze the displayed data
Relative measuring facility	
Storage temperature	: -20°C to 60°C (-4 °F to 140 °F) at < 80% relative humidity
For inside use, max height	: 2000m
Pollution degree	: 2
Power	: One 9V battery , NEDA 1604, IEC 6F22.
Dimensions	: 150 (H) x 70 (W) x 48 (D) mm
Weight	: Approx.: 255g.



TECHNICAL SPECIFICATIONS

Accuracy is given at 18°C to 28°C (65°F to 83°F), less than 70 % RH

DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
400.0mV	0.1mV	± 0.5% of rdg ± 2 dgts
4.000V	1mV	± 1.2% of rdg ± 2 dgts
40.00V	10mV	
400.0V	100mV	
600V	1V	

Input Impedance : 7.8MΩ

Maximum Input : 600V DC or 600V AC rms.

AC Voltage (Auto-ranging except 40mV)

Range	Resolution	Accuracy
400.0mV	0.1mV	± 1.5% of rdg ± 15 dgts
4.000V	1mV	± 1.2% of rdg ± 3 dgts
40.00V	10mV	± 1.5% of rdg ± 3 dgts
400.0V	100mV	
600V	1V	± 2.0% of rdg ± 4 dgts

Input Impedance : 7.8 MΩ

Frequency Range : 50 to 400Hz

Maximum Input : 600V DC or 600V AC rms

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DC Current (Auto-ranging for uA and mA)

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

Overload Protection: 0.5A / 250V and 10A / 250V Fuse.
Maximum Input : 400mA dc or 400mA ac rms on uA / mA ranges, 10A dc or ac rms on 10A range.

AC Current (Auto-ranging for uA and mA)

Range	Resolution	Accuracy
400.0uA	0.1uA	± 1.5% of rdg ± 5 dgts
4000uA	1uA	± 1.8% of rdg ± 5 dgts
40.00mA	10uA	
400.0mA	100uA	
10A	10mA	± 3.0% of rdg ± 7 dgts

Overload Protection: 0.5A / 250V and 10A / 250V Fuse.
Frequency Range : 50 to 400 Hz
Maximum Input : 400mA dc or 400mA ac rms on uA / mA ranges, 10A dc or ac rms on 10A range.

Resistance (Auto-ranging)

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

Input Protection: 250V DC or 250V AC rms.

Capacitance (Auto-ranging)

Range	Resolution	Accuracy
4.000nF	1pF	± 5.0% of rdg ± 50 dgts
40.00nF	10pF	± 5.0% of rdg ± 7 dgts
400.0nF	0.1nF	± 3.0% of rdg ± 5 dgts
4.000uF	1nF	
40.00uF	10nF	
200.0uF	0.1uF	± 5.0% of rdg ± 5 dgts

Input Protection: 250V DC or 250V AC rms.

Frequency (Auto-ranging)

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

Sensitivity : >0.5V RMS while ≤ 1MHz
Sensitivity : >3V RMS while >1MHz
Overload protection : 250V DC or AC rms.

Duty Cycle

Range	Resolution	Accuracy
0.1%~99.9%	0.1%	± 1.2% of rdg ± 2 dgts

Pulse width : >100us, <100ms;
Frequency : 5Hz - 150kHz
Sensitivity : >0.5V RMS
Overload protection : 250V DC or AC rms.

Temperature

Range	Resolution	Accuracy
-20°C~+760°C	1°C	± 3% of rdg
-4 °F~+1400 °F	1°F	± 5 °C/9°F

Sensor : Type K Thermocouple
Overload protection : 250V DC or AC rms..

Diode Test

Test current	Resolution	Accuracy
0.3mA typical	1 mV	± 10% of rdg ± 5 dgts

Open circuit voltage : 1.5V DC typical
Overload protection : 250V DC or AC rms.

Audible continuity

Audible threshold : Less than 150Ω; Test current: <0.3mA
Overload protection : 250V 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

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