



Display: 3 $\frac{1}{4}$ digit (4000 counts), 9999 counts (frequency mode), 42 segments analogue bar graph and function/units sign indicators.

Polarity: automatic, (-) negative polarity indication.

Over Range Indication: MSD (Most Significant Digit) blinks.

Low Battery Indication: The "BAT" is displayed when the battery voltage drops below accurate operating level.

Measurement rate: 2/sec, nominal. 1/sec, Capacitance and Frequency mode. 20/sec, analogue display.

Operating Environment: 0°C to 50°C at < 70%R.H.

Storage Environment: -20°C to 60°C at <80% R.H.

Temperature Coefficient: 0.1 X (specified accuracy) / °C (<18°C or >28°C)

Auto Power Off: 30 minutes after rotary switch or mode changes

Altitude: 6561.7 Feet (2000M)

Power: Standard 9-volt battery, NEDA 1604, IEC 6F22, JIS 006P.

Battery Life: 100 hours typical with alkaline battery.

Jaw Opening Capability: 57mm conductor, 70 X 18mm bus bar.

Size (H x W x D): 10.9 x 4.0 x 1.9 inches (277 x 102 x 49mm)

Weight: Approx. 18.9 OZ/ 540grams (including battery)

* Accuracy is given as \pm ([% of reading]+[number of least significant digits]) at 18°C to 28°C with relative humidity up to 70%.

Capacitance

Range	Resolution	Accuracy (with film capacitor or better)
4 nF	0.001 nF	$\pm(1.0\% \text{ rdg} + 40\text{d})$ in Relative mode
40 nF	0.01 nF	$\pm(1.0\% \text{ rdg} + 4\text{d})$ in Relative mode
400 nF	0.1 nF	$\pm(1.0\% \text{ rdg} + 4\text{d})$
4 μF	0.001 μF	$\pm(1.0\% \text{ rdg} + 4\text{d})$
40 μF	0.01 μF	$\pm(1.0\% \text{ rdg} + 4\text{d})$ at < 20 μF $\pm(5.0\% \text{ rdg} + 4\text{d})$ at > 20 μF

Overload protection: 500V DC or RMS AC

Frequency

Range	Resolution	Accuracy	Trigger Level
100Hz	0.01Hz	$\pm(0.1\% \text{ rdg} + 10\text{d})$	2.5V
1kHz	0.1Hz	$\pm(0.1\% \text{ rdg} + 4\text{d})$	2.5V
10kHz	1Hz	$\pm(0.1\% \text{ rdg} + 4\text{d})$	2.5V
100kHz	10Hz	$\pm(0.1\% \text{ rdg} + 8\text{d})$	2.5V
400kHz	100Hz	$\pm(0.1\% \text{ rdg} + 20\text{d})$	2.5V

Overload protection: 500V DC or RMS AC

Note: For frequencies below 100Hz and greater than 100 KHz, the display may not be stable. For Frequencies below 1Hz, the display shows 00.00Hz

DC Current

Range	Resolution	Accuracy (50-60 Hz)
400A	100mA	0-600A \pm (1.5%rdg+5d) 600A-800A \pm (2.5%rdg+5d)
1000A	1A	>800A \pm (3.5%rdg+5d)

Overload Protection: 1200A for 60 seconds Maximum

Resistance

Range	Resolution	Accuracy	Open Circuit Volts
400 Ω	0.1 Ω	\pm (1.2% rdg +4d)	0.4Vdc
4k Ω	1 Ω	\pm (1.0% rdg +2d)	0.4Vdc
40k Ω	10 Ω	\pm (1.0% rdg +2d)	0.4Vdc
400k Ω	100 Ω	\pm (1.0% rdg +2d)	0.4Vdc
4000k Ω	1k Ω	\pm (1.5% rdg +4d)	0.4Vdc
40M Ω	10k Ω	\pm (2.0% rdg +4d)	0.4Vdc

Overload Protection: 500V DC or RMS AC

Continuity Test

Range	Audible Threshold	Response Time	Open Circuit Volts
400 Ω	Less than 40 Ω	Approx. 100ms	0.4Vdc

Overload Protection: 500V DC or RMS AC

Diode Test

Range	Resolution	Accuracy	Test Current	Open Circuit Volts
4V	1mV	\pm (1.0% rdg +2d)	0.6mA	3.2Vdc typical

Overload Protection: 500V DC or RMS AC

DC Volts

Range	Resolution	Accuracy	Input Impedance
400mV	100 μ V	$\pm(0.5\% \text{ rdg} + 1\text{d})$	>1000M Ω
4V	1mV	$\pm(0.5\% \text{ rdg} + 1\text{d})$	11M Ω
40V	10mV	$\pm(0.5\% \text{ rdg} + 1\text{d})$	10M Ω
400V	100mV	$\pm(0.5\% \text{ rdg} + 1\text{d})$	10M Ω
1000V	1V	$\pm(0.5\% \text{ rdg} + 1\text{d})$	10M Ω

Overload protection: 1000V DC / 750V RMS

AC Volts (True RMS Sense)

Range	Resolution	Accuracy (50-500 Hz)
*400mV	100 μ V	$\pm(1.5\% \text{ rdg} + 4\text{d})$
4V	1mV	$\pm(1.5\% \text{ rdg} + 4\text{d})$
40V	10mV	$\pm(1.5\% \text{ rdg} + 4\text{d})$
400V	100mV	$\pm(1.5\% \text{ rdg} + 4\text{d})$
750V	1V	$\pm(1.5\% \text{ rdg} + 4\text{d})$

*Effective accuracy: Input signal >40mV, frequency response: 50Hz to 100Hz

Input impedance: Same as DCV function with less than 100pF

Crest Factor ≤ 3

Overload protection: 1000VDC or 750V AC rms

AC Current (True RMS Sense)

Range	Resolution	Accuracy (50-60 Hz)
400A	100mA	0-600A $\pm(1.5\% \text{ rdg} + 5\text{d})$ 50-60Hz >600A $\pm(2.0\% \text{ rdg} + 5\text{d})$ 50-60Hz 0-600A $\pm(3.0\% \text{ rdg} + 5\text{d})$ 61-400Hz
1000A	1A	>600A $\pm(3.5\% \text{ rdg} + 5\text{d})$ 61-400Hz

Crest Factor ≤ 3

Overload Protection: 1200A for 60 seconds Maximum