

## Features



- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Frequency and capacitance
- Maximum Voltage ac/dc 600V
- 10A ac/dc current measurement (20 A overload for 30-seconds max)
- Min/Max/Average to record signal fluctuations
- CAT III 600 V safety rated

### Safety conformance

All inputs are protected to CE, IEN61010-1 CAT III 600V. UL, CSA, TÜV listed and VDE.



## Specifications

Specifications	
Maximum voltage between any terminal and earth ground	600 V
Surge protection	6 kV peak per IEC 61010-1 600 VCAT III, Pollution Degree 2
Display	<b>Digital:</b> 6,000 counts, updates 4 per second
Bar graph	33 segments, updates 32 per second
Operating Temperature	-10 °C to + 50 °C
Storage Temperature	-40 °C to + 60 °C
Battery type	9 volt Alkaline, NEDA 1604A/ IEC 6LR61
Battery Life	400 hours typical, without backlight

Accuracy Specifications	
DC millivolts	<b>Range:</b> 600.0 mV <b>Resolution:</b> 0.1 mV <b>Accuracy:</b> ± [(% of reading) + (counts)]: 0.5% + 2
DC volts	<b>Range/Resolution:</b> 6.000 V / 0.001 V <b>Range/Resolution:</b> 60.00 V / 0.01 V <b>Range/Resolution:</b> 600.00 V / 0.1 V <b>Accuracy:</b> ± [(% of reading) + (counts)]: 0.5% + 2
AC millivolts <sup>1</sup> true-rms	<b>Range:</b> 600.0 mV <b>Resolution:</b> 0.1 mV <b>Accuracy:</b> 1.0% + 3 (dc, 45 Hz to 500 Hz) 2.0% + 3 (500 Hz to 1 kHz)
AC volts <sup>1</sup> true-rms	<b>Range/Resolution:</b> 6.000 V / 0.001 V <b>Range/Resolution:</b> 60.00 V / 0.01 V <b>Range/Resolution:</b> 600.0 V / 0.1 V <b>Accuracy:</b> 1.0% + 3 (dc, 45 Hz to 500 Hz) 2.0% + 3 (500 Hz to 1 kHz)
Continuity	<b>Range:</b> 600 Ω <b>Resolution:</b> 1 Ω <b>Accuracy:</b> Beeper on < 20 Ω, off > 250 Ω; detects opens or shorts of 500 μs or longer.



<b>Ohms</b>	<b>Range/Resolution:</b> 600.0 Ω / 0.1 Ω <b>Range/Resolution:</b> 6.000 kΩ / 0.001 kΩ <b>Range/Resolution:</b> 60.00 kΩ / 0.01 kΩ <b>Range/Resolution:</b> 600.0 kΩ / 0.1 kΩ <b>Range/Resolution:</b> 6.000 MΩ / 0.001 MΩ <b>Accuracy:</b> 0.9% + 1 <b>Range/Resolution:</b> 40.00 MΩ / 0.01 MΩ <b>Accuracy:</b> 5% + 2
<b>Diode Test</b>	<b>Range/Resolution:</b> 2.00 V / 0.001 V <b>Accuracy:</b> 0.9% + 2
<b>Capacitance</b>	<b>Range/Resolution:</b> 1000 nF / 1 nF <b>Range/Resolution:</b> 10.00 μF / 0.01 μF <b>Range/Resolution:</b> 100.0 μF / 0.1 μF <b>Range/Resolution:</b> 9999 μF / 1 μF <b>Range/Resolution:</b> 100 μF to 1000 μF <b>Accuracy:</b> 1.9% + 2 <b>Range/Resolution:</b> > 1000 μF <b>Accuracy:</b> 5% + 20%
<b>Lo-Z Capacitance</b>	<b>Range:</b> 1 nF to 500 μF <b>Accuracy:</b> 10% + 2 typical
<b>AC amps true-rms (45 Hz to 500Hz)</b>	<b>Range/Resolution:</b> 6.000 A / 0.001 A <b>Range/Resolution:</b> 10.00 A / 0.01 A <b>Accuracy:</b> 1.5% + 3 20 A overload for 30-seconds max
<b>DC amps</b>	<b>Range/Resolution:</b> 6.000 A / 0.001 A <b>Range/Resolution:</b> 10.00 A / 0.01 A <b>Accuracy:</b> 1.0% + 3 20 A overload for 30-seconds max
<b>Hz (V or A input)<sup>2</sup></b>	<b>Range/Resolution:</b> 99.99 Hz / 0.01 Hz <b>Range/Resolution:</b> 999.9 Hz / 0.01 Hz <b>Range/Resolution:</b> 9.999 kHz / 0.001 kHz <b>Range/Resolution:</b> 50 kHz / 0.01 kHz <b>Accuracy:</b> 0.1% + 2

**Notes:**

- 1) All ac voltage ranges except Auto-V/LoZ are specified from 1 % to 100 % of range. Auto-V/LoZ is specified from 0.0 V.
- 2) Temperature uncertainty (accuracy) does not include the error of the thermocouple probe.
- 3) Frequency is ac coupled, 5 Hz to 50 kHz for ac voltage. Frequency is dc coupled, 45 Hz to 5 kHz for ac current.
- 4) Temperature Range/Resolution: -40 °F to 752 °F / 0.2 °F
- 2) Frequency is ac coupled, 5Hz to 30 kHz for ac voltage

<b>Mechanical &amp; General Specifications</b>	
<b>Size</b>	167 x 84 x 46 mm (6.57" x 3.31" x 1.82")
<b>Weight</b>	550 g
<b>Warranty</b>	3 years