



### Features

- Measures AC/DC voltage and current, frequency, resistance, capacitance and temperature
- Record data and review trends with included software
- Relative, Peak, Min/Max and data hold functions
- Wireless Bluetooth Connectivity
- Waterproof (IP67) double molded plastic housing
- Cat. IV 600V, Cat. III 1000V safety rating
- Includes test leads, type K thermocouple wire probe, thermocouple adapter, weatherproof plugs, AC adapter, li-ion battery, and software

### TECHNICAL DATA

#### Specifications

##### AC/DC Voltage

Range: AC: 50, 500mV, 5, 50, 500, 1000V  
DC: 50, 500mV, 5, 50, 500, 1000V

Accuracy: AC: 50/60Hz  $\pm(0.3\% \text{ rdg.} + 25 \text{ dgt.})$   
<1 KHz  $\pm(0.5\% \text{ rdg.} + 25 \text{ dgt.})$   
<5KHz  $\pm(3\% \text{ rdg.} + 25 \text{ dgt.})$   
DC: 50mV  $\pm(0.5\% \text{ rdg.} + 20 \text{ dgt.})$   
500mV, 5,50,500V  $\pm(0.025\% \text{ rdg.} + 5 \text{ dgt.})$   
1000V  $\pm(0.1\% \text{ rdg.} + 5 \text{ dgt.})$

Resolution: AC: 0.001, 0.01mV, 0.0001,  
0.001, 0.01, 0.1V  
DC: 0.001, 0.01mV, 0.0001,  
0.001, 0.01, 0.1V

##### AC/DC Current

Range: 500, 5000 $\mu$ A, 50, 500mA, 10A

Accuracy: AC: 50/60Hz  $\pm(0.6\% \text{ rdg.} + 25 \text{ dgt.})$   
<1 KHz  $\pm(1.5\% \text{ rdg.} + 25 \text{ dgt.})$   
<5KHz  $\pm(3\% \text{ rdg.} + 25 \text{ dgt.})$   
DC: 500, 5000 $\mu$ A,  
50mA  $\pm(0.1\% \text{ rdg.} + 20 \text{ dgt.})$   
500mA  $\pm(0.15\% \text{ rdg.} + 20 \text{ dgt.})$   
10A  $\pm(0.3\% \text{ rdg.} + 20 \text{ dgt.})$

Resolution: 0.01, 0.1 $\mu$ A, 0.001, 0.01mA, 0.001A

##### Resistance

Range: 50, 500 $\Omega$ , 5, 50, 500k $\Omega$ , 5, 50M $\Omega$

Accuracy: 50 $\Omega$ :  $\pm(0.5\% \text{ rdg.} + 20 \text{ dgt.})$   
500 $\Omega$ / 5,50k $\Omega$ :  $\pm(0.05\% \text{ rdg.} + 10 \text{ dgt.})$   
500k $\Omega$ :  $\pm(0.1\% \text{ rdg.} + 10 \text{ dgt.})$   
5M $\Omega$ :  $\pm(0.2\% \text{ rdg.} + 20 \text{ dgt.})$   
50M $\Omega$ :  $\pm(2\% \text{ rdg.} + 20 \text{ dgt.})$

Resolution: 0.001, 0.01 $\Omega$ , 0.0001, 0.001, 0.01k $\Omega$ ,  
0.01, 0.001M $\Omega$

##### Capacitance

Range: 5, 50, 500nF, 5, 50, 500 $\mu$ F, 10mF

Accuracy: 5, 50,500nF, 5,50 $\mu$ F  $\pm(2\%+40 \text{ dgt.})$   
500 $\mu$ F, 10mF  $\pm(5\%+40 \text{ dgt.})$

Resolution: 0.001, 0.01, 0.1nF, 0.001,  
0.01, 0.1 $\mu$ F, 0.01mF

##### Frequency

Range: 50, 500Hz, 5, 50, 500kHz, 5, 10MHz

Accuracy:  $\pm(0.01\%+10 \text{ dgt.})$

Resolution: 0.001, 0.01Hz, 0.0001, 0.001,  
0.01kHz, 0.0001, 0.001MHz

##### Temperature

Range: -58 to 1832 $^{\circ}$ F (-50 to 1000 $^{\circ}$ C)

Accuracy:  $\pm(1.0\% \text{ rdg.} + 4.5^{\circ}$ F)  
 $\pm(1.0\% \text{ rdg.} + 2.5^{\circ}$ C)

Resolution: 1 $^{\circ}$ F, 1 $^{\circ}$ C

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### General Specifications

Range Selection:	Autoranging/Manual
True RMS:	Yes
Measure AC/DC signals simultaneously:	Yes
Display:	50,000 count 320 x 240 TFT color LCD display
Display Hold:	Yes
Max/Min:	Yes
Peak Hold:	Yes
Relative Mode:	Yes
Diode Test:	Yes
Recording Capabilities:	Yes (Over 2 hr recording time)
Wireless Connectivity:	Yes (Bluetooth via software)
Backlit Display:	Yes
Digital Analog Bargraph:	Yes
Continuity Check:	Audible signal if resistance $\leq 25\Omega$
Duty Cycle:	Yes (0.1 - 99.9%)
Kick Stand:	Yes
Auto Power Off:	Yes (after 15 minutes)
Power Supply:	Li-ion Rechargeable Battery
Low Battery Indicator:	Yes
Fuse Protection:	Yes
Replaceable Test Leads:	Yes
Software OS Compatibility:	Windows XP/7/8/10
Overvoltage Category:	CAT. IV 600V, CAT. III 1000V
Product Certifications:	CE, IP67
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Dimensions:	8.7 x 3.8 x 2.4" (220 x 96 x 60mm)
Weight:	22oz (631g)

### TECHNICAL DATA



Model	Description
R5005	True RMS Multimeter, Data Logger
CP-09	AC Current Adapter
R2990	Thermocouple Adapter
TP-01	Type K Thermocouple Wire Probe
R1000	Safety Test Lead Set, Double Insulated
R1020	Fused Test Lead Set
R2920	Surface Thermocouple Probe
R2930	Right Angle Thermocouple Surface Probe
R2940	Air/Gas Thermocouple Probe
R2950	Immersion Thermocouple Probe
R2960	Needle Tip Thermocouple Probe
R1220	Safety Alligator Clips
CA-05A	Soft Carrying Case
R8888	Hard Carrying Case
R5005-NIST	True RMS Multimeter, Data Logger & NIST