



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 $\pm(0.3\% \text{ rdg.} + 25 \text{ dgt.})$ $<1 \text{ Khz } \pm(0.5\% \text{ rdg.} + 25 \text{ dgt.})$ $<5\text{Khz } \pm(3\% \text{ rdg.} + 25 \text{ dgt.})$ 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 μ A, 50, 500mA, 10A
Accuracy: AC: 50/60Hz $\pm$ (0.6% rdg. + 25 dgt.)
<1 Khz $\pm$ (1.5% rdg. + 25 dgt.)
<5Khz $\pm$ (3% rdg. + 25 dgt.)
DC: 500, 5000 μ A,
50mA $\pm$ (0.1% rdg. + 20 dgt.)
500mA $\pm$ (0.15% rdg. + 20 dgt.)
10A $\pm$ (0.3% rdg. + 20 dgt.)
Resolution: 0.01, 0.1 μ A, 0.001, 0.01mA, 0.001A

Resistance

Range:	50, 500Ω, 5, 50, 500kΩ, 5, 50MΩ
Accuracy:	50Ω: ±[0.5% rdg. + 20 dgt.] 500Ω/ 5, 50kΩ: ±[0.05% rdg. + 10 dgt.] 500kΩ: ±[0.1% rdg. + 10 dgt.] 5MΩ: ±[0.2% rdg. + 20 dgt.] 50MΩ: ±[2% rdg. + 20 dgt.]
Resolution:	0.001, 0.01Ω, 0.0001, 0.001, 0.01kΩ, 0.01, 0.001MΩ

Capacitance

Range:	5, 50, 500nF, 5, 50, 500μF, 10mF
Accuracy:	5, 50, 500nF, 5, 50μF ±(2%+40 dgt.) 500μF, 10mF ±(5%+40 dgt.)
Resolution:	0.001, 0.01, 0.1nF, 0.001, 0.01, 0.1μF, 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°F (-50 to 1000°C)
Accuracy: ±(1.0% rdg. + 4.5°F)
±(1.0% rdg. + 2.5°C)
Resolution: 1°F, 1°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