

### Features

- Measures AC/DC voltage and current, frequency, resistance, capacitance and temperature
- Built-in non-contact voltage detector and double molded plastic housing
- Diode check and continuity functions
- Relative and data hold functions
- Backlit LCD and low battery indicator
- Cat. III 600V safety rating
- Includes test leads, thermocouple wire probe (Type K) with attached adapter, and batteries

### Specifications

#### AC/DC Voltage

Range: AC: 60, 600mV, 6, 60, 600V  
DC: 60, 600mV, 6, 60, 600V

Accuracy: AC: 60, 600mV  $\pm(0.5\% \text{ rdg.} + 2 \text{ dgt.})$   
6, 60, 600V  $\pm(0.7\% \text{ rdg.} + 3 \text{ dgt.})$   
DC: 60, 600mV  $\pm(1.0\% \text{ rdg.} + 2 \text{ dgt.})$   
6, 60, 600V  $\pm(0.8\% \text{ rdg.} + 3 \text{ dgt.})$

Resolution: AC: 0.1, 1, 10mV, 0.1, 1V  
DC: 0.1, 1, 10mV, 0.1, 1V

#### AC/DC Current

Range: 600, 6000 $\mu$ A, 60, 600mA, 6, 10A

Accuracy: AC: 600, 6000 $\mu$ A/60mA, 600mA  $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$   
6, 10A  $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$   
DC: 600, 6000 $\mu$ A/60.00mA, 600.0mA  $\pm(0.7\% \text{ rdg.} + 2 \text{ dgt.})$   
6.000, 10.00A  $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$

Resolution: 0.1, 1, 10 $\mu$ A, 0.1, 1, 10mA

#### Resistance

Range: 600 $\Omega$ , 6, 60, 600k $\Omega$ , 6, 60M $\Omega$

Accuracy: 600 $\Omega$ :  $\pm(1.0\% \text{ rdg.} + 2 \text{ dgt.})$   
6, 60, 600k $\Omega$ :  $\pm(0.8\% \text{ rdg.} + 2 \text{ dgt.})$   
6M $\Omega$ :  $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$   
60M $\Omega$ :  $\pm(1.5\% \text{ rdg.} + 5 \text{ dgt.})$

Resolution: 0.1, 1, 10, 100 $\Omega$ , 1, 10k $\Omega$

#### Capacitance

Range: 9.999nF, 99.99nF to 999.9 $\mu$ F, 9.999 to 99.99mF

Accuracy: 9.999nF: Under REL ( $\pm 4\% + 10 \text{ dgt.}$ )  
99.99nF to 999.9 $\mu$ F:  $\pm(4.0\% \text{ rdg.} + 5 \text{ dgt.})$   
9.999 to 99.99mF:  $\pm(10\% \text{ rdg.} (<2\text{mF}))$

Resolution: 1pF, 10pf to 0.1 $\mu$ F, 1 $\mu$ F to 10 $\mu$ F

#### Frequency

Range: 9.999Hz to 9.999MHz

Accuracy:  $\pm(0.1\% \text{ rdg.} + 4 \text{ dgt.})$

Resolution: 0.001Hz to 0.001Mz

### TECHNICAL DATA



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### Temperature

Range: -40 to 1832°F (-40 to 1000°C)  
 Accuracy:  $\pm(2.5\% \text{ rdg.} + 5^\circ\text{F}) \pm(2.0\% \text{ rdg.} + 3^\circ\text{C})$   
 Resolution: 1°F, 1°C

### General Specifications

Range Selection: Autoranging/Manual  
 True RMS: Yes  
 Display: 6,000 count LCD Display  
 Display Hold: Yes  
 Max/Min: Yes  
 Relative Mode: Yes  
 Diode Test: Yes  
 Backlit Display: Yes  
 Continuity Check: Audible signal if resistance  $\leq 10\Omega$   
 Duty Cycle: Yes (0.1 - 99.9%)  
 Non-Contact  
   Voltage Detector: Yes  
 Kick Stand: Yes  
 Auto Power Off: Yes (after 15 minutes)  
 Power Supply: 2 x AA Batteries  
 Low Battery Indicator: Yes  
 Fuse Protection: Yes  
 Replaceable Test Leads: Yes  
 Overvoltage Category: CAT. III 600V  
 Product Certifications: CE  
 Operating Temperature: 41 to 104°F (5 to 40°C)  
 Storage Temperature: -4 to 140°F (-20 to 60°C)  
 Dimensions: 6.9 x 3.2 x 1.9"  
                   (175 x 80 x 49mm)  
 Weight: 13oz (370g)

### TECHNICAL DATA



Model	Description
R5007	Digital Multimeter
R5900	Magnetic Hanging Strap
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
CA-05A	Soft Carrying Case
R5007-NIST	Digital Multimeter & NIST