

### TECHNICAL DATA

#### Features

- Measures AC/DC current/voltage, resistance, capacitance, frequency, duty cycle and temperature
- 50000-count backlit LCD display and analog bargraph
- Low battery and overrange indicators
- Built-in non-contact voltage detector with LED indicator
- True RMS AC measurements
- Min/Max, display hold and relative mode
- Diode test and continuity check functions
- Durable double molded plastic housing
- Cat. III 600V safety rating
- Includes test leads, thermocouple wire probe, thermocouple adapter, battery, and soft carrying case

#### Specifications

##### AC/DC Current

Range: 50, 1000A  
Accuracy: AC:  $\pm(2.8\% \text{ rdg.} + 30 \text{ dgt.})$   
DC:  $\pm(2.5\% \text{ rdg.} + 30 \text{ dgt.})$   
Resolution: 0.01, 0.1, 1A

##### AC/DC Voltage

Range: AC: 500mV, 5, 50, 500, 750V  
DC: 500mV, 5, 50, 500, 1000V  
Accuracy: AC:  $\pm(1.0\% \text{ rdg.} + 30 \text{ dgt.})$   
DC:  $\pm(0.1\% \text{ rdg.} + 4 \text{ dgt.})$   
Resolution: AC/DC: 0.1mV, 0.001, 0.01, 0.1, 1V

##### Resistance

Range: 500 $\Omega$ , 5, 50, 500k $\Omega$ , 5, 50M $\Omega$   
Accuracy:  $\pm(1.0\% \text{ rdg.} + 4 \text{ dgt.})$   
0.1 $\Omega$ , 0.001, 0.01, 0.1k $\Omega$ ,  
0.001, 0.01M $\Omega$

##### Capacitance

Range: 500, 5000nF, 50, 500 $\mu$ F, 5mF  
Accuracy:  $\pm(3.5\% \text{ rdg.} + 10 \text{ dgt.})$   
Resolution: 0.01, 0.1nF, 0.01, 0.1 $\mu$ F, 0.1mF

##### Frequency

Range: 10kHz  
Accuracy:  $\pm(0.3\% \text{ rdg.} + 2 \text{ dgt.})$   
Resolution: 0.001Hz



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### Temperature

Range: -148 to 1832°F (-100 to 1000°C)  
 Accuracy:  $\pm(1.0\% \text{ rdg.} + 4.5^\circ\text{F})$   
 $\pm(1.0\% \text{ rdg.} + 2.5^\circ\text{C})$   
 Resolution: 1°F, 1°C

### General Specifications

Range Selection: Autoranging / Manual  
 True RMS: Yes  
 Display: 50,000 count LCD display  
 Display Hold: Yes  
 Max/Min: Yes  
 Relative Mode: Yes  
 Diode Test: Yes  
 Backlit Display: Yes  
 Analog Bargraph: Yes (61-segment)  
 Continuity Check: Audible signal if resistance <35Ω  
 Duty Cycle: Yes  
 Non-Contact Voltage Detector: Yes  
 Autoshut off: Yes (after 15 mins)  
 Power Supply: 9V Battery  
 Low Battery Indicator: Yes  
 Jaw Opening: 1.5" (40mm), up to 500 MCM  
 Overvoltage Category: CAT. III 600V  
 Product Certifications: CE  
 Operating Temperature: 32 to 122°F (0 to 50°C)  
 Storage Temperature: -4 to 140°F (-20 to 60°C)  
 Dimensions: 9.1 x 3.0 x 1.5"  
 (232 x 77 x 39mm)  
 Weight: 9.6oz (271g)

### TECHNICAL DATA



Model	Description
R5040	AC/DC Clamp Meter
R2990	Thermocouple Adapter
R5400	Line Splitter
R1000	Safety Test Lead Set, Double Insulated
R1020	Fused Test Lead Set
TP-01	Type K Thermocouple Wire Probe
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
R9940	Hard Shell Carrying Case
R5040-NIST	AC/DC Clamp Meter & NIST