

### 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



Continued...

### Temperature

Range: -148 to 1832°F (-100 to 1000°C)  
 Accuracy: ±(1.0% rdg. + 4.5°F)  
 ±(1.0% rdg. + 2.5°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               |