

### 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  $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$   
6, 60, 600V  $\pm(0.8\% \text{ rdg.} + 3 \text{ dgt.})$   
DC: 60, 600mV  $\pm(0.5\% \text{ rdg.} + 2 \text{ dgt.})$   
6, 60, 600V  $\pm(0.7\% \text{ rdg.} + 3 \text{ dgt.})$   
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/60.00mA,  
600.0mA  $\pm(0.7\% \text{ rdg.} + 2 \text{ dgt.})$   
6.000, 10.00A  $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$   
DC: 600, 6000 $\mu$ A/60mA, 600mA  
 $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$   
6, 10A  $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$   
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



Continued...

### 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              |