

### 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<br>DC: 60, 600mV, 6, 60, 600V   |
| Accuracy:   | AC: 60, 600mV $\pm(0.5\% \text{ rdg.} + 2 \text{ dgt.})$<br>6, 60, 600V $\pm(0.7\% \text{ rdg.} + 3 \text{ dgt.})$<br>DC: 60, 600mV $\pm(1.0\% \text{ rdg.} + 2 \text{ dgt.})$<br>6, 60, 600V $\pm(0.8\% \text{ rdg.} + 3 \text{ dgt.})$ |
| Resolution: | AC: 0.1, 1, 10mV, 0.1, 1V<br>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 $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$<br>6, 10A $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$<br>DC: 600, 6000 $\mu$ A/60.00mA, 600.0mA $\pm(0.7\% \text{ rdg.} + 2 \text{ dgt.})$<br>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 $\Omega$ : $\pm(1.0\% \text{ rdg.} + 2 \text{ dgt.})$<br>6, 60, 600k $\Omega$ : $\pm(0.8\% \text{ rdg.} + 2 \text{ dgt.})$<br>6M $\Omega$ : $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$<br>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,<br>9.999 to 99.99mF   |
| Accuracy:   | 9.999nF: Under REL ( $\pm 4\% + 10 \text{ dgt.}$ )<br>99.99nF to 999.9 $\mu$ F: $\pm(4.0\% \text{ rdg.} + 5 \text{ dgt.})$<br>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: ±(2.5% rdg. + 5°F) ±(2.0% rdg. + 3°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                 |
| FC-300     | Fused Test Lead Set                    |
| P-15       | Weatherproof Plugs                     |
| CP-09      | AC Current Adapter                     |
| AD-1       | Thermocouple Adapter                   |
| TP-01      | Type K Thermocouple Wire Probe         |
| R1000      | Safety Test Lead Set, Double Insulated |
| 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              |