

### TECHNICAL DATA

#### Specifications

##### AC/DC Voltage

Range: AC: 400mV, 4, 40, 400, 600V  
DC: 400mV, 4, 40, 400, 600V

Accuracy: AC: 400mV  $\pm(15\% \text{ rdg.} + 15 \text{ dgt.})$   
4V  $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$   
40, 400V  $\pm(1.5\% \text{ rdg.} + 3 \text{ dgt.})$   
600V  $\pm(2.0\% \text{ rdg.} + 4 \text{ dgt.})$   
DC: 400mV  $\pm(0.05\% \text{ rdg.} + 2 \text{ dgt.})$   
4, 40, 400V  $\pm(1.2\% \text{ rdg.} + 2 \text{ dgt.})$   
600V  $\pm(1.5\% \text{ rdg.} + 2 \text{ dgt.})$

Resolution: AC: 0.1mV, 1, 10, 100V  
DC: 0.1mV, 1, 10, 100V

##### AC/DC Current

Range: 400, 4000 $\mu$ A, 40, 400mA, 10A

Accuracy: AC: 400 $\mu$ A  $\pm(1.5\% \text{ rdg.} + 5 \text{ dgt.})$   
4000 $\mu$ A/40, 400mA  $\pm(1.8\% \text{ rdg.} + 5 \text{ dgt.})$   
10A  $\pm(3.0\% \text{ rdg.} + 7 \text{ dgt.})$   
DC: 400 $\mu$ A  $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$   
4000 $\mu$ A/40, 400mA  $\pm(1.5\% \text{ rdg.} + 3 \text{ dgt.})$   
10A  $\pm(2.5\% \text{ rdg.} + 5 \text{ dgt.})$

Resolution: 0.1, 1 $\mu$ A, 10, 100mA, 1A

##### Resistance

Range: 400 $\Omega$ , 4, 40, 400k $\Omega$ , 4, 40M $\Omega$

Accuracy: 400 $\Omega$ :  $\pm(1.2\% \text{ rdg.} + 4 \text{ dgt.})$   
4k $\Omega$ :  $\pm(1.0\% \text{ rdg.} + 2 \text{ dgt.})$   
40, 400k $\Omega$ , 4M $\Omega$ :  $\pm(1.2\% \text{ rdg.} + 2 \text{ dgt.})$   
40M $\Omega$ :  $\pm(2.0\% \text{ rdg.} + 3 \text{ dgt.})$

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

##### Capacitance

Range: 4, 40, 400nF, 4, 40, 200 $\mu$ F

Accuracy: 4nF:  $\pm(5.0\% \text{ rdg.} + 50 \text{ dgt.})$   
40nF:  $\pm(5.0\% \text{ rdg.} + 7 \text{ dgt.})$   
400nF/4, 40 $\mu$ F:  $\pm(3\% \text{ rdg.} + 5 \text{ dgt.})$   
200 $\mu$ F:  $\pm(5\% \text{ rdg.} + 5 \text{ dgt.})$

Resolution: 1, 10pF, 0.1, 1, 10nF, 0.1 $\mu$ F

##### Frequency

Range: 9.999, 99.99, 999.9Hz, 9.999, 99.99, 999.9KHz, 9.999MHz

Accuracy: 9.999, 99.99Hz:  $\pm(1.5\% \text{ rdg.} + 5 \text{ dgt.})$   
999.9Hz, 9.999, 99.99, 999.9KHz:  $\pm(1.2\% \text{ rdg.} + 3 \text{ dgt.})$   
9.999MHz:  $\pm(1.5\% \text{ rdg.} + 4 \text{ dgt.})$

Resolution: 0.001, 0.01, 0.1, 1, 10, 100Hz, 1kHz

##### Temperature

Range: -4 to 1400°F (-20 to 760°C)

Accuracy:  $\pm(3.0\% \text{ rdg.} + 9^\circ\text{F})$   
 $\pm(3.0\% \text{ rdg.} + 5^\circ\text{C})$

Resolution: 1°F, 1°C

*Continued...*



#### Features

- Measures AC/DC voltage and current, frequency, resistance, capacitance and temperature
- Diode check and continuity functions
- Relative and data hold functions
- Double molded plastic housing
- Cat. III 600V safety rating
- Includes Thermocouple Adapter, thermocouple wire probe (Type K), test leads, battery and carrying case

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#### General Specifications

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Range Selection:        | Autoranging/Manual                               |
| Display:                | 4,000 count LCD display                          |
| Display Hold:           | Yes                                              |
| Peak Hold:              | Yes                                              |
| Relative Mode:          | Yes                                              |
| Diode Test:             | Yes                                              |
| Continuity Check:       | Audible signal<br>if resistance $\leq 150\Omega$ |
| Duty Cycle:             | Yes (0.1 - 99.9%)                                |
| Kick Stand:             | Yes                                              |
| Auto Power Off:         | Yes (after 15 minutes)                           |
| Power Supply:           | 9V Battery                                       |
| Low Battery Indicator:  | Yes                                              |
| Fuse Protection:        | Yes                                              |
| Replaceable Test Leads: | Yes                                              |
| 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:             | 5.9 x 2.8 x 1.9"<br>(150 x 70 x 48mm)            |
| Weight:                 | 9oz (255g)                                       |

| Model      | Description                            |
|------------|----------------------------------------|
| R5008      | Multimeter with Temperature            |
| FC-300     | Fused Test Lead Set                    |
| P-15       | Weatherproof Plug                      |
| CP-09      | AC Current Adapter                     |
| R2990      | 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 |
| R2950      | Immersion Thermocouple Probe           |
| CA-52A     | Soft Carrying Case                     |
| R5008-NIST | Multimeter with Temperature & NIST     |