

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 Meter 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

TECHNICAL DATA



Features

- True RMS measures frequency, resistance, capacitance and temperature
- Diode check and continuity functions
- Backlit LCD readout with analog bar graph
- 4-20 mA process loop measurements with % readout
- Data hold, Max/Min and Peak capture mode
- IP67 dust and waterproof
- Cat. IV 600V, Cat. III 1000V safety rating
- Includes Thermocouple Adapter, thermocouple wire probe (Type K), test leads, battery, weatherproof plugs, and carrying case

Specifications

AC/DC Voltage

Range: AC: 400mV, 4, 40, 400, 1000V
DC: 400mV, 4, 40, 400, 1000V

Accuracy: AC: 400mV $\pm(1.0\% \text{ rdg.} + 5 \text{ dgt.})$
4, 40, 400, 1000V $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$
DC: 400mV/4,40,
400V $\pm(0.06\% \text{ rdg.} + 2 \text{ dgt.})$
1000V $\pm(0.1\% \text{ rdg.} + 5 \text{ dgt.})$

Resolution: AC: 0.1mV, 0.001, 0.01, 1V
DC: 0.01mV, 0.0001, 0.01, 0.1V

AC/DC Current

Range: 400, 4000 μ A, 40, 400mA, 10A

Accuracy: AC: $\pm(1.5\% \text{ rdg.} + 3 \text{ dgt.})$
DC: $\pm(1.0\% \text{ rdg.} + 3 \text{ dgt.})$

Resolution: AC: 0.1, 1 μ A, 0.01, 0.1mA, 0.01A
DC: 0.01, 0.1 μ A, 0.001, 0.01mA, 0.001A

Resistance

Range: 400 Ω , 4, 40, 400k Ω , 4, 40M Ω

Accuracy: 400 Ω : $\pm(0.3\% \text{ rdg.} + 9 \text{ dgt.})$
4, 40, 400k Ω , 4M Ω : $\pm(0.3\% \text{ rdg.} + 4 \text{ dgt.})$
40M Ω : $\pm(2.0\% \text{ rdg.} + 10 \text{ dgt.})$

Resolution: 0.01 Ω , 0.0001, 0.001,
0.01k Ω , 0.001M Ω

Capacitance

Range: 40, 400nF, 4, 40, 400, 4000 μ F, 40mF

Accuracy: 40, 400nF: $\pm(3.5\% \text{ rdg.} + 40 \text{ dgt.})$
4, 40, 400 μ F: $\pm(3.5\% \text{ rdg.} + 10 \text{ dgt.})$
4000 μ F, 40mF: $\pm(5\% \text{ rdg.} + 10 \text{ dgt.})$

Resolution: 0.001, 0.01nF, 0.0001, 0.001,
0.01, 0.1 μ F, 0.001mF

Frequency

Range: 40, 400Hz, 4, 40, 400kHz, 4, 40, 100MHz

Accuracy: $\pm(0.1\% \text{ rdg.} + 1 \text{ dgt.})$

Resolution: 0.00, 0.01Hz, 0.0001, 0.001,
0.01kHz, 0.0001, 0.001, 0.01MHz

Temperature

Range: -58 to 1832 $^{\circ}$ F (-50 to 1000 $^{\circ}$ C)

Accuracy: $\pm(1.0\% \text{ rdg.} + 4.5^{\circ}$ F)
 $\pm(1.0\% \text{ rdg.} + 2.5^{\circ}$ C)

Resolution: 1 $^{\circ}$ F, 1 $^{\circ}$ C

4-20mA%

Range: -25 to 125%

Accuracy: $\pm(50 \text{ dgt.})$

Resolution: 0.01%

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