

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 Ω , 5, 50, 500k Ω , 5, 50M Ω
 Accuracy: $\pm(1.0\% \text{ rdg.} + 4 \text{ dgt.})$
 0.1 Ω , 0.001, 0.01, 0.1k Ω ,
 0.001, 0.01M Ω

Capacitance

Range: 500, 5000nF, 50, 500 μ F, 5mF
 Accuracy: $\pm(3.5\% \text{ rdg.} + 10 \text{ dgt.})$
 Resolution: 0.01, 0.1nF, 0.01, 0.1 μ F, 0.1mF

Frequency

Range: 10kHz
 Accuracy: $\pm(0.3\% \text{ rdg.} + 2 \text{ dgt.})$
 Resolution: 0.001Hz



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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)

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| 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 |