Model MM10, Digital Multimeter

**Measures DC/AC Voltage, DC Current and Resistance, Overload Protection**

Our compact, low cost Model MM10 Digital Multimeter is ideal for general electrical testing and troubleshooting. This full function multimeter measures DC and AC voltage to 600 V, DC current to 10 A and resistance to 20 MΩ. In addition to volts, amps and ohms, this meter includes audible continuity, diode, LED and transistor hFE tests. The 3-1/2 digit LCD features automatic polarity correction, low battery and overload indication. Rugged, high impact case comes equipped with built-in tilt-stand for versatile, hands-free operation. Overload protected to 600 VAC/600 VDC for voltage ranges and to 500 VAC/500 VDC for resistance, diode and continuity test ranges. Current ranges are protected by 0.5A/250V, replaceable fuse. Multimeter is furnished with 22˝ test leads, 9 V battery and instruction manual.

**SPECIFICATIONS**

**DC VOLTAGE**
- **Ranges:** 2 V, 20 V, 200 V, 600 V.
- **Resolution:** 1 mV, 10 mV, 100 mV, 1 V.
- **Accuracy:** 2V: ±(0.5% + 1 digit); 20 to 600V: ±(1.5% + 1 digit).

**AC VOLTAGE**
- **Ranges:** 200 V, 600 V.
- **Resolution:** 100 mV, 1 V.
- **Accuracy:** 200V: ±(2% + 3 digits); 600V: ±(2.5% + 3 digits).

**RESISTANCE**
- **Ranges:** 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ.
- **Accuracy:** 200 Ω: ±(2% + 2 digits); 2 kΩ to 2 MΩ: ±(1.5% + 2 digits); 20 MΩ: ±(2.5% + 2 digits).

**DC CURRENT**
- **Ranges:** 2 mA, 20 mA, 200 mA, 10 A.
- **Resolution:** 1 µA, 10 µA, 100 µA, 10 mA.
- **Accuracy:** 2 to 200 mA: ±(1.5% + 1 digit); 10A: ±(2% + 1 digit).

**CONTINUITY TEST**
- **Range:** < 30 Ω.
- **Resolution:** 1 Ω.

**DIODE TEST**
- **Resolution:** 1 mV.
- **Test Current:** 1 mA.

**TRANSISTOR (hFE) TEST**
- **Type:** NPN, PNP.
- **Range:** 0-1000.

**LED TEST**
- **Test Voltage:** < 3 V.
- **Range:** 1.5 - 3 V.

**GENERAL**
- **Display:** 3-1/2 digit LCD with a maximum reading of 1999.
- **Sampling Rate:** 2.5 times per second.
- **Ambient Operating Temperature:** 32°F to 104°F (0 to 40°C), 0 to 80% RH.
- **Storage Temperature:** 14 to 140°F (-10 to 60°C), 0 to 80% RH.
- **Power Requirements:** One 9 V battery.
- **Battery Life:** 150 hrs. approx.
- **Weight:** 5.2 oz (150 g).
- **Agency Approvals:** CE.

---

Model CM-3, Digital Clamp Meter with True RMS, Peak Hold and Min/Max

**Measures DC/AC Voltage, DC/AC Current, Energy, Resistance**

Our compact, low cost Model CM-3 Digital Clamp Meter is ideal for general electrical testing and troubleshooting. A few applications include HVAC, automotive, electrical/power, and environmental monitoring uses. The CM-3 measures DC and AC voltage to 600 V, AC current to 4000 A, and resistance to 2000 Ω. The digital clamp meter features data/range hold and auto range buttons to prevent the screen from updating when gathering values, as well as a zero function. Additional features include single and three phase energy measurement, MIN/MAX and average. The 3-3/4 digit backlit LCD features automatic polarity, overload, low battery indication and a bar graph. The Model CM-3 is furnished with red and black test leads, batteries and a carrying case with belt loop.

**SPECIFICATIONS**

**Over Voltage Category:** CAT III 600 V.
- **AC Voltage:** 0.1 V to 600 V ± (1.0% + 3 digit).
- **DC Voltage:** 0.1 V to 600 V ± (1.0% + 3 digit).
- **AC Current:** 0.1 A to 400 A ± (1.0% + 3 digit).
- **Resistance:** 0.1 to 2000 Ω ± (1.0% + 5 digit).

**Continuity Test:** Audible buzzer.

Max Conductor Size: 1.18˝ diameter (30 mm).
- **Frequency:** 40 Hz to 400 Hz ± (0.5% + 1).
- **Active Power Range:** 0 to 1000 kW ± (3.5% + 3).
- **Display:** Backlit with bar graph. 10,000 counts plus decimal point.
- **Power Requirements:** (2) AAA alkaline batteries, included, user replaceable.
- **Weight:** 9.88 oz (280 g).