

Digital Multimeter

DM-80

- **Heavy Duty, Ideal For Plant/Industrial Maintenance**
- **Autoranging • 11 Functions, 39 Ranges**

- 0.3% Basic DC Accuracy
- 42 Segment Bar Graph
- 4000 Count LCD
- Min./Max.
- Data Hold
- Memory
- Capacitance
- Frequency
- Temperature
- Diode Test
- Audible Continuity Test
- Overload Protection
- 1-Year Limited Warranty

Battery, Test Leads (ML-375), Thermocouple (TC-50P), Protective Holster and Operating Instructions Included



SPECIFICATIONS:

General

Display: 3 3/4 Digit LCD with polarity indicator, 42 segment bar graph, .5" high

Auto Power Off: 30 minutes

Overrange Indication: Most significant digit blinks

Operating Environment: 0°C to 40°C, <80% relative humidity

Storage Environment: -20°C to 60°C, <70% relative humidity

Measurement Rate: Digital 2 times per second, bargraph 20 times per second, capacitance 1 time per second

Power: 9V alkaline or carbon zinc battery (NEDA 1604)

Battery Life: 500 hours typical with alkaline cells

Fuse: 2A/250V
Dimensions, Weight: 3.25" wide x 7" long x 1.25" thick (82.6mm x 177.8mm x 31.8mm), net weight 11.5oz. (326g)

DC Voltage

Range	Resolution	Accuracy
400mV	0.1mV	±0.3% of rdg ±1D
4V	1mV	±0.3% of rdg ±1D
40V	10mV	±0.3% of rdg ±1D
400V	100mV	±0.3% of rdg ±1D
1000V	1V	±0.3% of rdg ±3D

Overload Protection: 1000V pk (10 sec.)

DC Current

Range	Resolution	Accuracy
4mA	0.001mA	±1.5% of rdg ±2D
40mA	0.01mA	±1.5% of rdg ±2D
400mA	0.1mA	±1.5% of rdg ±2D
4000mA	1mA	±1.5% of rdg ±2D
10A	0.01A	±2% of rdg ±2D

Overload Protection: mA = 2A/250V, 10A = Unfused

AC Voltage

Range	Resolution	Accuracy
4V	1mV	±1.2% of rdg ±5D
40V	10mV	±1.2% of rdg ±5D
400V	100mV	±1.2% of rdg ±5D
750V	1V	±1.2% of rdg ±5D

Input Impedance: 10MΩ on all ranges

Overload Protection: 1000V pk (10 sec.)

AC Current

Range	Resolution	Accuracy
4mA	0.001mA	±2% of rdg ±5D
40mA	0.01mA	±2% of rdg ±5D
400mA	0.1mA	±2% of rdg ±5D
2000mA	1mA	±2% of rdg ±5D
10A	0.01A	±2% of rdg ±5D

Frequency Range: 50Hz - 500Hz

Overload Protection: mA = 2A/250V, 10A = Unfused

Resistance

Range	Resolution	Accuracy
400Ω	0.1Ω	±1% of rdg ±2D
4KΩ	1Ω	±0.7% of rdg ±2D
40KΩ	10Ω	±0.7% of rdg ±2D
400KΩ	100Ω	±0.7% of rdg ±2D
4MΩ	1KΩ	±0.7% of rdg ±2D
40MΩ	10KΩ	±2% of rdg ±5D

Overload Protection: 250V DC or peak AC, 10 sec.

Capacitance

Range	Resolution	Accuracy
4nF	0.001nF	±5% of rdg ±2D
40nF	0.01nF	±5% of rdg ±2D
400nF	0.1nF	±5% of rdg ±2D
4μF	1nF	±5% of rdg ±2D
40μF	10nF	±5% of rdg ±2D

Frequency Measurement

Range	Resolution	Accuracy
100Hz	0.001Hz	±1% of rdg ±10D
1000Hz	0.1Hz	±1% of rdg ±10D
10kHz	1Hz	±1% of rdg ±10D
100kHz	10Hz	±1% of rdg ±10D
1000kHz	100Hz	Not Specified

Temperature Measurement

Range: 0°F to 2000°F

Resolution: 1°F

Accuracy: 0°F to 225°F (±5° ±2D)

225°F to 2000°F (±3% of rdg)

Diode Test: 3.2V

Continuity Test (Audible)

Beeper Response: <40Ω

Response Time: Instantly