

Digital Multimeter

DM-21

• Low Cost General Purpose

- Transistor h_{FE}
- Diode Test
- LED Test
- Square Wave Generator
- 7 Functions, 11 Ranges
- 0.8% Basic DC Accuracy
- 3 1/2 Digit LCD, 0.55" H
- Low Power Ω
- Overload Protection
- RF Shielded
- Polarity Indicator
- Low Battery Indicator
- Tilt Stand
- 1-Year Limited Warranty

Battery, Test Leads (ML-375) and Operating Instructions Included

SPECIFICATIONS:

General

Display: 3 1/2 Digit LCD, 0.55" high, with polarity

Overrange Indication: "1" or "-1" is displayed.

Measurement Rate: 2.5 times per second

Operating Environment: 0°C to 50°C, <70% relative humidity

Storage Environment: -20°C to 60°C, <80% relative humidity with battery removed

Power: 9V carbon zinc battery (NEDA 1604)

Battery Life: 150 hours typical with carbon zinc cells

Low Battery Indicator: Symbol is displayed

Dimensions, Weight: 2.8" wide x 6" long x 1.5" thick (70mm x 151mm x 38mm), net weight 7oz. (200g)



DC Voltage

Range	Resolution	Accuracy
2V	1mV	±0.8% of rdg ±1D
20V	10mV	±0.8% of rdg ±1D
200V	100mV	±0.8% of rdg ±1D
600V	1V	±0.8% of rdg ±1D

Input Impedance: 1M Ω on all ranges.

Maximum Input: 600V DC or 500AC rms.

AC Voltage

Range	Resolution	Accuracy
200V	100mV	± 1.5% of rdg ±4D
500V	1V	± 1.5% of rdg ±4D

Input Impedance: 450K Ω on all ranges.

Maximum Input: 600V DC or 500AC rms.

Frequency Range: 50Hz - 500Hz.

Resistance

Range	Resolution	Accuracy
200 Ω	0.1 Ω	±1.5% of rdg ±3D
2K Ω	1 Ω	±1.5% of rdg ±3D
20K Ω	10 Ω	±1.5% of rdg ±3D
200K Ω	100 Ω	±1.5% of rdg ±3D
2M Ω	1K Ω	±1.5% of rdg ±3D

Overload Protection: 500V DC or 350AC rms

Transistor h_{FE} Test (PNP, NPN)

Test Condition: 10 μ A Base Current @ <3.5V
 h_{FE} Range: 0 - 1000

Diode Test

Voltage: <3.5V @ 1mA ±0.6mA

LED Test

Voltage: <3.5V @ 10mA ±0.6mA

Generator

Waveform: Square

Frequency: 50Hz approx

Output: ±3 to -0.5V DC, 50% Duty Cycle

Impedance: 120K Ω