Digital Multimeter

DM-78A

Heavy Duty, Ideal For Plant/ Industrial Maintenance

- Water Resistant (0-Ring Seals)
- Withstands 5' Drop
- Protective Holster (MH-350)
- Large Display Window
- 3200 Count LCD, .55" H
- 65 Segment Analog Bar Graph
- 0.5% Basic DC Accuracy
- Auto Power Off

- 10MΩ Input Z
- "No Hand" Data Hold
- Input Warning Beeper*
- 20A AC/DC Fused
- Diode Test
- Instant Continuity Beeper
- Overload Protection
- 1-Year Limited Warranty

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

SPECIFICATIONS:

General

Display: 3200 count LCD, 65 segment bar graph, 0.55" high, with polarity Auto Power Off: Approx. 10 min. after mode or

function change

Overrange Indication: "OL" is displayed **Operating Environment:** 0°C to 50°C, <80% relative humidity

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

Temperature Coefficient: (0°C to 18°C and 28°C to 50°C), less than 0.15 x applicable accuracy specification per second

Measurement Rate: Digital 2 times per second, analog 12 times per second Power: 1.5V AAA (2) alkaline or carbon zinc batteries

Battery Life: 1000 hours with alkaline cells Low Battery Indicator: Symbol is displayed Fuse: 1A 240/250V Fast

Dimensions, Weight: 3.3" wide x 6.9" long x 1.2" thick (84mm x 175mm x 31mm), net weight 12oz. (340g)



DC Voltage

Range	Resolution	Accuracy
300mV	0.1mV	±0.5% of rdg ±2D
3V	1mV	±0.5% of rdg ±2D
30V	10 mV	±0.5% of rdg ±2D
300V	100mV	±0.5% of rdg ±2D
1000V	1V	±0.5% of rdg ±2D

Input Impedance: $10M\Omega$

Overload Protection: 1100VpK (15 sec.)

DC Current

Range	Resolution	Accuracy
300µA	0.1µA	$\pm 1\%$ of rdg $\pm 2D$
3mA	1µA	±1.2% of rdg ±2D
30mA	10µA	$\pm 1\%$ of rdg $\pm 2D$
300mA	100µA	±1.2% of rdg ±2D
20A	10mA	$\pm 2\%$ of rdg $\pm 3D$

Overload Protection: μA , mA = 1A 240/250V, 20A = 13A 240/250V (readings over 10A max., 30 sec.)

Voltage Drop: 200mV on 300µA, 30mA ranges; 2V all others

AC Voltage

Range	Resolution	Accuracy		
3V	1mV	±1.3% of rdg ±5D		
30V	10mV	±1.3% of rdg ±5D		
300V	100mV	±1.3% of rdg ±5D		
750V	1V	±1.3% of rdg ±5D		
Frequency Range: 3V on 40Hz - 300Hz;				
40Hz - 500Hz all others				

Input Impedance: $10M\Omega$ on all ranges Overload Protection: 770V AC RMS or 1100Vpk

(15 sec.)

AC Current

Range	Resolution	Accuracy
300µA	0.1μΑ	±1.5% of rdg ±3D
3mA	1µA	±1.5% of rdg ±3D
30mA	10µA	±1.5% of rdg ±3D
300mA	1 <i>00µA</i>	±2% of rdg ±3D
20A	10mA	±2.5% of rdg ±5D

Frequency Range: 40Hz - 500Hz

Overload Protection: μA , mA = 1A 240/250V, 20A = 13A 240/250V (readings over 10A max., 30 sec.)

Voltage Drop: 200mV on 300µA, 30mA ranges; 2V all others

Resistance

Range (Lo-Pow	Resolution	Accuracy
300Ω	0.1Ω	$\pm 1\%$ of rdg $\pm 4D$
3KΩ	1Ω	$\pm 0.75\%$ of rdg $\pm 2D$
30KΩ	1 <i>0</i> Ω	±0.75% of rdg ±2D
300К Ω	<i>100</i> Ω	±0.75% of rdg ±2D
$3M\Omega$	1 <i>Κ</i> Ω	$\pm 1.5\%$ of rdg $\pm 3D$
<i>30Μ</i> Ω	10KΩ	±2.5% of rdg ±5D
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Lo-Power Ω open circuit 1.3V

Overload Protection: 600VDC or 600V AC RMS (10 sec.)

Diode Test

Voltage: 3.3V @ 1.5mA max

Continuity Test

Beeper Response: $<50\Omega$ Response Time: Instant Delay Hold: Allows "No-Hand" data hold operation * Input Warning Beeper: Eliminates incorrect

test lead placement and selector switch settings



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