

Handheld Digital Multimeters

DMM254



DMM254.

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CHARACTERISTICS

AC Volts

Range	Resolution
400 mV	0.1 mV
4 V	1 mV
40 V	10 mV
400 V	100 mV
750 V	1 V

Accuracy -

All ranges except 400 mV:
50 Hz to 60 Hz: (0.50% of rdg + 5 cts).
40 Hz to 1 kHz: (1% of rdg + 5 cts).

Input Resistance - 10 megaohm, paralleled by < 100 pF.

DC Current

Range	Resolution
4 mA	1 μ A
40 mA	10 μ A
400 mA	100 μ A
10 A	10 mA

Accuracy -

4 to 400 mA ranges: $\pm(0.8\%$ of rdg + 4 cts)
10 A: $\pm(0.4\%$ of rdg + 2 cts).

Burden Voltage -

4 to 400 mV ranges: 1 V max
10 A: 800 mV max.

Overload Protection - mA ranges: 1 A (600V) fast-blow fuse; 20 A range: 15 A (600V) fast-blow fuse.

DC Volts

Range	Resolution
400 mV	0.1 mV
4 V	1 mV
40 V	10 mV
400 V	100 mV
1000 V	1 V

Accuracy -

400 mV: $\pm(0.3\%$ of rdg + 2 cts)
Other ranges: $\pm(0.1\%$ of rdg + 2 cts).

Input Impedance - 10 megaohm paralleled by < 100 pF.

AC Current

Range	Resolution
4 mA	1 μ A
40 mA	10 μ A
400 mA	100 μ A
10 A	10 mA

Accuracy (40 to 1 kHz) -

All ranges: $\pm(1\%$ of rdg + 5 cts).

Overload Protection -

mA ranges: 1 A (600 V) fast-blow fuse;
20 and 10 A ranges: 15 A (600 V) fast-blow fuse.

Resistance

Range	Resolution
400 Ohm	0.1 Ohm
4 kilohm	1 Ohm
40 kilohm	10 Ohm
400 kilohm	100 Ohm
4 megaohm	1 kilohm
40 megaohm	10 kilohm

Accuracy -

400 Ohm: $\pm(0.4\%$ of rdg + 4 cts)

4 to 400 kilohm: $\pm(0.4\%$ of rdg + 2 cts)

4 megaohm: $\pm(0.6\%$ of rdg + 3 cts)

40 megaohm: (1.5% of rdg + 5 cts).

Overload Protection - 600 VDC/AC RMS.

Test Voltage (open circuit) - approximately equal to 450 mV.

Continuity

Buzzer sounds if resistance < 30 Ohm.

Input Protection - 600 VDC/AC RMS.

Capacitance

Range	Resolution
4 nF	1 pF
40 nF	10 pF
400 nF	100 pF
4 μ F	1 nF
40 μ F	10 nF

Accuracy (in relative mode) -

4 nF $\pm(1\%$ of rdg + 40 cts).

Other ranges - 40 nF to 20 μ F $\pm(1\%$ of rdg + 4 cts)

> 20 μ F $\pm(5\%$ of rdg + 8 cts).

Input Protection - 600 VDC/AC RMS.

Frequency

Range	Resolution
100 Hz	0.01 Hz
1 kHz	0.1 Hz
10 kHz	1 Hz
100 kHz	10 Hz
1 MHz	100 Hz

Accuracy -

100 Hz to 100 kHz $\pm(0.1\%$ of rdg + 4 cts)
 1 MHz $\pm(0.5\%$ of rdg + 4 cts).

Input Protection - 600 VDC/AC RMS.

ADP Mode

Display - 10 counts per 1 mV DC.

Accuracy - $\pm(0.3\%$ of rdg + 4 cts).

Input Protection - 600 VDC/AC RMS.

Diode Test

Max Test Current - 0.6 mA.

Test Voltage (open circuit) - 3.6 V.

Resolution - 1 mV.

Input Protection - 600 VDC/AC RMS.

Safety

UL1244, CSA231, EN61010-1

Physical Characteristics

Dimensions	mm	in.
Length	185	7.3
Width	86	3.4
Depth	32	1.26
Net Weight	kg	lb.
	0.37	

Display - 4000 count LCD.

Sampling Rate -

1 S/s for digital display (Capacitance mode);

2 S/s for digital display (All other modes);

20 S/s for analog bar graph.

Operating Ambient Temperature - -10°C to +50°C
 (0 to 80% R.H.).

Power Supply - 9 V battery.

Battery Life - 500 hours typical (alkaline).

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Product manufactured in ISO 9001 registered facilities



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