

DMM357 High Precision Multimeter



- 6 ½ digit
- High accuracy to 0.005%
- High speed upto 2000 rdgs / sec
- High stability
- USB interface
- Temperature measurements
- 19 full featured functions
- Scanner card interface option
- Small size & light weight
- Unbeatable price

Product Description

The 6 ½ digit DMM provides a wide range of measurement functions including AC / DC Voltage, AC / DC Current, Resistance, Diode, Continuity, Temperature. USB interface port is available as a standard. A ten channel scanner interface card is available as an optional feature.

Technical Specification

DC Voltage

Range	Resolution	Input Resistance	Accuracy
100.0000 mV	0.1 μ V	> 10 G Ω	0.0050 + 0.0035
1.000000 V	1.0 μ V	> 10 G Ω	0.0040 + 0.0007
10.00000 V	10 μ V	> 10 G Ω	0.0035 + 0.0005
100.0000 V	100 μ V	10 M Ω	0.0045 + 0.0006
1000.000 V	1 mV	10 M Ω	0.0045 + 0.0010

DC Current

Range	Resolution	Shunt Resistance	Accuracy
10.000000 mA	10 nA	5.1 Ω	0.05 + 0.02
100.00000 mA	100 nA	5.1 Ω	0.05 + 0.005
1.000000 A	1 μ A	0.1 Ω	0.1 + 0.01
3.00000 A	10 μ A	0.1 Ω	0.12 + 0.02

Diode Test

1.0000V	10 μ V	1 mA	0.01 + 0.02
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Continuity

1000.00K.	10 m Ω	1 mA	0.01 + 0.03
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Resistance

Range (ohm)	Resolution	Test Current	Accuracy
100.0000	100 $\mu\Omega$	1 mA	0.01 + 0.004
1.000000 K	1 m Ω	1 mA	0.01 + 0.001
10.00000 K	10 m Ω	100 μ A	0.01 + 0.001
100.0000 K	100 m Ω	10 μ A	0.01 + 0.001
1.000000 M	1 Ω	5 μ A	0.01 + 0.001
10.00000 M	10 Ω	500 nA	0.04 + 0.001
100.0000 M	100 Ω	500 nA	0.8 + 0.01

AC Voltage (AC Trms)

Range	Resolution	Frequency (Hz)	Accuracy
100.0000 mV	0.1 μ V	3-5	1.00 + 0.04
		5-10	0.35 + 0.04
		10-20K	0.06 + 0.04
		20-50K	0.12 + 0.05
		50K – 100K	0.60 + 0.08
		100K – 300K	4.00 + 0.50
1.000000 V to 750.000 V	1.0 μ V to 1 mV	3-5	1.00 + 0.03
		5-10	0.35 + 0.03
		10-20K	0.06 + 0.03
		20-50K	0.12 + 0.05
		50K – 100K	0.60 + 0.08
		100K – 300K	4.00 + 0.50

AC Current (AC Trms)

Range	Resolution	Frequency (Hz)	Accuracy
1.000000 A	1 μ A	3-5	1.00 + 0.04
		5-10	0.30 + 0.04
		10-5K	0.10 + 0.04
3.000000 A	10 μ A	3-5	1.10 + 0.06
		5-10	0.35 + 0.06
		10-5K	0.15 + 0.06

Frequency and Period

Range	Frequency (Hz)	Accuracy (% of reading)
100mV to 750V	3-5	0.1
	5-10	0.05
	10-40	0.03
	40-300K	0.01

Thermocouple Types

J, K, T, E, R, S & N

RTD Types

Pt100 (3 standards – ITS-90, IEC751, Callendar-Van Husein)

*Accuracies are specified as \pm (% of reading + % of range) (23 °C \pm 5 °C)
750 V AC is limited to 100kHz*



Display

VFD Dual display with 5 x 7 dot matrix and three-colour annunciators

19 Full Featured Functions

DMM has 11 measurement functions and 8 mathematical functions

Measurement : DC / AC Current and Voltage, 2 wire and 4 wire, Frequency, Period, Diode, Continuity, Temperature

Mathematical : 8 functions including Limits, Ratio, Min. / Max., Null, MX+B, %, dBm, dB

General

Mechanical

Dimensions : D x W x H - 350mm x 210mm x 85mm

Weight : 4.36kg appr.

Remote control

Interface : USB

Optional : Either RS232 or GPIB

Order codes

Description	Order code
DMM357	093357
6 ½ digit Multimeter	

Supplied with user manual, test leads, USB cable, application software and AC power cable

Options

Description	Order code
Temperature	/T
10 channel scanner	/S
RS232	/R (not available with option /G)
GPIB	/G (not available with option /R)

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