

multi function

DIGITAL MULTIMETER

Model : DM-9092

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

DIGITAL MULTIMETER

Model : DM-9092

FEATURES

- * Auto range DMM with bar graph display.
- * 3200 digital display counts
- * LCD display with annunciators.
- * Large LCD display, easy read-out.
- * With range hold function - manual range operation available.
- * Built-in Auto power off features.
- * Meet IEC1010 safety requirement.
- * Compact & strong housing case.
- * AA(UM3) battery, 0.6 mA low power consumption, long battery life.

GENERAL SPECIFICATIONS

Display	Digital display - 4 digits LCD, 16mm (0.63") digit size with annunciators, max. reading approx. 3200. Analog Bar graph display - 32 segments, 100 counts resolution per digit.
Range Control	Auto range & manual range(range hold).
Measurement	DCV, ACV, DCA, ACA, ohms, hFE, DIODE, Continuity Beeper, Data hold.
Polarity	Automatic Switching, '-' indicates negative polarity.
Zero Adjustment	Automatic adjustment.
Over-input indicator	" OL " mark indication.
Sampling Time	Digital display - Approx. 0.5 second. Bar graph display - Approx. 90 mS.
Auto power off	Meter will be power off automatically within 10 min. after the last operation was made.
Operating Temp.	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	2 x 1.5 V AA(UM-3) battery.
Power Consumption	Approx. DC 0.6 mA (no signal input).
Dimensions	172x84x36 mm (6.8x3.3x1.4 inch).
Weight	266 g/0.59 LB(including battery).
Accessories Included	Red and Black Test Leads 1 pair 0.5 Amp Spare Fuse 1 PC Instruction Manual 1 PC

ELECTRICAL SPECIFICATIONS (23± 5 °C)

DC CURRENT				
Range	Accuracy	Resolution	Voltage Drop	Overload Protection
320 uA	± (1.0%+2d)	0.1uA	DC320mV * in case of full scale.	0.5 A Fuse Max. 10 A
3200 uA	± (1.5%+2d)	1uA		
32 mA	± (1.0%+2d)	10uA		
320 mA	± (1.5%+2d)	100uA		
10 A	± (2.0%+2d)	10mA		

AC CURRENT				
Range	Accuracy	Resolution	Voltage Drop	Overload Protection
320 uA	± (2%+5d)	0.1uA	Approx. AC320mV * in case of full scale.	0.5 A Fuse Max. 10 A
3200 uA		1uA		
32 mA		10uA		
320 mA		100uA		
10 A	± (2.5%+5d)	10mA		

DC, AC VOLTAGE				
Range	Accuracy	Resolution	Input Impedance	Overload Protection
DC	± (0.5%+2d)	100uV	>1000 M ohm	AC 600V rms DC 600 V
320 mV only		1mV		
3.2 V	DCV: ± (1.0%+2d)	10mV	10 M ohm	
32 V		100mV		
320 V	ACV: ± (1.2%+4d)	1V		

RESISTANCE				
Range	Accuracy	Resolution	Open circuit voltage	Overload Protection
320 ohm	± (1.0%+2d)	0.1 ohm	Approx. 1.1V	AC 450V rms DC 50V
3.2 K		1 ohm		
32 K		10 ohm		
320 K		100 ohm		
3200 K	± (2.0%+2d)	1K ohm		
32 M		10Kohm		

CONTINUITY CHECK				
Range	Resolution	Continuity Beeper	Open circuit voltage	Overload Protection
320 ohm	0.1 ohm	< approx. 20 ohm	approx. DC 3V	AC 450V rms DC 50V

DIODE TEST				
Range	Accuracy	Resolution	Test Current	Overload Protection
0 - 2.000V	± (1.0%+2d)	1 mV	Approx. 0.5 mA mA(Vf=0.56V)	AC 450V rms DC 50V

TRANSISTOR hFE MEASUREMENT				
0 - 1000 hFE values of either P.N.P. OR N.P.N. TR. (test condition : Base DC current about 10uA, VCE: about 3V)				