

MULTIMETER *smart*

Model : DM-9950

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

smart

MULTIMETER

Model : DM-9950

FEATURES

* Meet IEC 1010 CAT III 1000 V safety requirement.
* 6000 counts A/D, high resolution.
* ACV, ACA, DCV, DCA, ohms, continuity, Hz, Capacitance, Diode.
* Smart function, Auto range or manual range with hold.
* Smart operation, Build in 5 intelligent function : " V " , " Ω " , " uA " , " mA " , " A " .
* " V " function can select ACV, DCV automatically with auto range.
* " Ω " function can select the Resistance , Diode, Continuity beeper, Capacitance automatically with auto range.
* " mA " and " uA " function can measure ACA, DCA with auto range.
* Data hold .
* Auto shut off is available to save battery life.
* Both 10 A, mA,uA current range are build fuses for safety consideration.
* 10 M ohm impedance for voltage circuit.
* Built-in overload protection for most ranges.
* LSI circuit provides high reliability and durability.
* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
* Full line optional adapters : Clamp adapter, Tachometer adapter, Pressure adapter, Humidity Adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter.

GENERAL SPECIFICATIONS

Display	65 mm x 48 mm large LCD display
Measurement	DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Diode, Continuity beeper.
A/D counts no.	6000 counts.
Smart function	" V " function can select ACV, DCV automatically with auto range. " Ω " function can select the Resistance,Diode, Continuity,beeper,Capacitance automatically with auto range. " 10A " " mA " " uA " function can measure ACA, DCA with auto range.
MAX./MIN.	Records Maximum & Minimum readings with recall.
Data hold	To freeze the display reading on the LCD display.
Power On/Off management	Auto power off or manual power off.
Hz button	When execute the voltage or current function also can measure the frequency of signal.
Selection range	Smart function or auto function . manual range selecting.
Polarity	Automatic Switching, " - " indicates negative polarity.
Sampling time	Approx. 0.5 to 1 second.
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Operating humidity	Max. 80% RH.
Power supply	DC 9 V battery, 006P,MN1604
Power consumption	Approx. DC 3 mA.
Dimension	190 x 88 x 40 mm (7.5 x 3.5 x 1.6 inch).

* Appearance and specifications listed in this brochure are subject to change without notice.

Weight	377 g/0.83 LB (w.o battery).
Accessories Included	Red and Black Test Leads (CAT III 1KV Test Leads)..... 1 Set 0.63 Amp Spare Fuse..... 1 PC Instruction Manual..... 1 PC
Optional accessories	Full line adapters : ACA/DCA current adapter, Tachometer adapter, Humidity adapter, Pressure adapter, Light adapter, EMF adapter, Sound level adapter, High voltage probe. Soft carrying case..... CA-05A

ELECTRICAL SPECIFICATIONS (23± 5 °C)

DC Voltage	
Range	600.0 mV /6 V/60 V/600 V /1000 V
Resolution	0.1 mV /0.001V /0.01V /0.1V/1 V
Accuracy	± (0.5% + 2d) 600 mV ± (0.8% + 1d) 6 V, 60 V, 600 V, 1000 V
Input impedance	10 M ohm.
Over load protection	600 mV range ± 500 DCV, 350 ACV other ranges ± 1000 DCV, 1000 ACV

AC Voltage	
Range	600.0 mV /6 V/60 V/600 V/1000 V
Resolution	0.1 mV /0.001V /0.01V /0.1V/1 V
Accuracy	± (1% + 2d) * Spec. are tested under 50/60 Hz.
Input impedance	10 M ohm.
Over load protection	600 mV range ± 500 DCV, 350 ACV other ranges ± 1000 DCV, 1000 ACV

DC Current, AC Current	
Range	10 A/ 600 mA/60 mA/ 6000 uA/600 uA
Resolution	0.01A / /0.1 mA /0.01mA /1 uA /0.1 uA
Accuracy	600 uA : ± (1.5% + 2d). 6000 uA : ± (1.5 % + 2d) 60 mA : ± (1 % + 2d) 600 mA : ± (1 % + 2d) 10 A : ± (1.5 % + 2d) * ACA spec. are tested under 50/60 Hz.
Over load protection	10A range : 10A fuse. uA, mA range : 630 mA fuse.

Diode (Forward voltage, VF)	
Range	3 V DC.
Accuracy	± (0.5% + 2d)

Capacitance	
Range	6 nF/60 nF/600 nF/6 uF/60 uF/ 600uF
Resolution	0.001nF/0.01nF/0.1 nF/0.001uF/0.01uF/ 0.1uF
Accuracy	± (3 % + 5d)

Frequency	
Range	40Hz to 1KHz
Resolution	0.001KHz
Accuracy	± (0.5% + 2d)
Over load protection	AC/DC 600V

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