

DMM CAT III 1000V

Model : DM-9960

ISO-9001, CE, IEC1010



FEATURES

- * Meet IEC 1010 CAT III 1000 V.
- * Large LCD display with bar graph indicator.
- * Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.
- * Max./Min., Peak value, Relative, Data hold.
- * Auto range with manual range selection.
- * °C/°F thermometer °
- * VAHz button, when execute the ACV, ACA function also can measure the frequency of signal.
- * 4000 counts A/D, high resolution.
- * Build fuse for Both 10 A, mA, uA current range.
- * 10 M ohm input impedance for voltage circuit.
- * Full line optional adapters.



LUTRON ELECTRONIC

The Art of Measurement

AUTO RANGE MULTIMETER, CAT III 1000V

Model : DM-9960

FEATURES

* Meet IEC 1010 CAT III 1000 V safety requirement.	* Both 10 A, mA, uA current are build fuse for safely consideration.
* Large LCD display with bar graph indicator.	* 10 M ohm impedance for voltage circuit.
* Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.	* Operates from 2 PCs UM4 1.5 V batteries.
* Max./Min., Peak value, Relative, Data hold.	* Built-in overload protection for most ranges.
* Auto range with manual range selection.	* Photo couple RS 232 computer serial interface.
* °C/°F thermometer, optional Temp. probe.	* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
* VAHz button, when execute the ACV, ACA function also can measure the frequency of signal.	* Full line optional adapters : Clamp adapter, Tachometer adapter, Pressure adapter, Humidity Adapter, Soud level adapter, Anemometer adapter, Light adapter, EMF adapter.
* 4000 counts A/D, high resolution.	

GENRAL SPECIFICATIONS

Display	65 mm x 48 mm large LCD display with bar graph indicator.	Zero adjustment	Automatic.
Measurement	DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.	Sampling time	Approx. 0.5 to 1 second.
A/D counts no.	4000 counts.	Operating temperature	0 °C to 50 °C (32 °F to 122 °F).
Range selection	Auto range with manual range selecting.	Operating humidity	Max. 80% RH.
Special function	Max./Min., Peak value, Relative measurement, Data hold.	Power supply	1.5 V battery x 2 PCs UM-4/AAA/Micro/R03 type
Data hold	To freeze the display reading on the LCD display.	Power consumption	Approx. DC 2.5 mA.
Memory recall	Records Maximum & Minimum readings with recall.	Dimension	185 x 88 x 40 mm (7.3 x 3.5 x 1.6 inch).
Peak value	To measure the signal peak value.	Weight	350 g/0.77 LB.
Relative measurement	To offset the measurement value.	Accessories Included	Red and Black Test Leads..... 1 PC. 0.5 Amp Spare Fuse..... 1 PC. Instruction Manual..... 1 PC.
VAHz button	When execute the ACV, ACA function also can measure the frequency of signal.	Optional accessories	Full line adapters : ACA/DCA current adapter, adapter, Tachometer adapter, Humidity adapter, Pressure adapter, Light adapter, EMF adapter, Sound level adapter, High voltage probe.
Data output	RS 232 PC serial interface, photo couple.		Temperature probe..... TP-11 RS232 cable..... UPCB-06
Polarity	Automatic Switching, " - " indicates negative polarity.		

ELECTRICAL SPECIFICATIONS (23± 5 °C)

DC Voltage		CAPAITANCE	
Range	400.0 mV / 4 V/ 40 V/ 400 V / 1000 V	Range	4 nF/40 nF/400 nF/4 uF/40 uF/400 uF 4 mF/40 mF
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Resolution	1 pF/10 pF/0.1 nF/1 nF/10 nF/0.1 uF 1 uF/10 uF
Accuracy	± (0.5% + 2d) - 400 mV. ± (0.8% + 1d) - 4 V, 40 V, 400 V, 1000 V.	Accuracy	± (3 % + 1d)
Input impedance	10 M ohm.		
Over load protection	00 DCV, 350 ACV - 200 mV range. 000 DCV, 1000 ACV - other ranges.		
AC Voltage		Frequency	
Range	400.0 mV / 4 V/ 40 V/ 400 V / 1000 V	Range	4 KHz/40 KHz/400 KHz 4 MHz/40 MHz
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Resolution	1 Hz/10 Hz/0.1 KHz/1 kHz/0.01 MHz/0.1 MHz
Accuracy	± (1% + 2d) * Spec. are tested under 50/60 Hz.	Accuracy	± (0.5% + 2d)
Input impedance	10 M ohm.		
Over load protection	± 500 DCV, 350 ACV - 200 mV range. ± 1000 DCV, 1000 ACV - other ranges.		
DC Current, AC Current		OHMS	
Range	10 A/400 mA/40 mA/4000 uA/400 uA	Range	400/4 K/40 K/400 K/4 M/40 M ohm
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA	Resolution	0.1/1/10/100/1 K/10 K ohm
Accuracy	400 uA : ± (1 % + 2d) 4000 uA : ± (1.5 % + 2d) 40 mA : ± (1 % + 2d) 400 mA : ± (1.5 % + 2d) 400 mA : ± (1.5 % + 2d) * ACA spec. are tested under 50/60 Hz.	Accuracy	400 ohm : ± (1 % + 2d) 4K/40K/400K/4 M : ± (1.5 % + 2d) 40 M : ± (3 % + 5d)
Over load protection	10A range : 10A fuse. uA, mA range : 500 mA fuse.	Over load protection	± 500 DCV, 350 ACV.
Diode (Forward voltage)		Temperature	
Range	2 V	Range	-20 °C to 750 °C
Accuracy	± (0.5% + 2d)	Resolution	1 °C
Continuity Beeper		Accuracy	-20 °C to 300 °C : ± (1% + 2 °C) 301 °C to 750 °C : ± 3% reading
Beeper will sound if measured resistance less than 20 hom.		* The temperature probe is optional.	

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

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