

CAT III 1000V, True RMS

TRUE RMS DMM

Model : DM-9961

ISO-9001, CE, IEC1010



Features :

- * Heavy duty CAT III-1000V category.
- * 4000 counts, auto/manual range.
- * Large LCD, digit height 23 mm.
- * ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- * Hz/Duty cycle, Capacitance, diode.
- * Data hold, Relative, range hold.
- * High input impedance for mV range.
- * 10 Amp. current with fuse protection.
- * Size : 194 x 89 x 40 mm.



Model : DM-9961

Lutron

LUTRON ELECTRONIC

The Art of Measurement

True RMS AUTO RANGE MULTIMETER

CAT III-1000 V category, Auto range, REL, Capacitance Hz, Duty, ACV, ACA, DCV, DCA, Ohms

Model : DM-9961

FEATURES	
* True RMS ACV, ACA measurement	* 4000 counts A/D, high resolution.
* Meet IEC 1010 CAT III 1000 V safety requirement.	* Both 10 A, mA, uA current are build fuse for safety consideration.
* Large LCD display with measurement unit.	* 10 M ohm impedance for voltage circuit.
* Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Duty, Diode, Continuity beeper.	* Operates from one DC 9V battery,
* Data hold.	* Built-in overload protection for most ranges.
* Relative measurement.	* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
* Auto range with manual range selection.	* Full line optional adapters : Clamp adapter, Tachometer adapter, Pressure adapter, Humidity Adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter.
* When make the ACV, ACA measurement, it also can measure the signal frequency, % duty at the same time.	

GENERAL SPECIFICATIONS			
Display	65 mm x 48 mm large LCD display with bar graph indicator.	Operating humidity	Max. 80% RH.
Measurement	DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Duty, Diode, Continuity beeper.	Power supply	006P DC 9V battery.
A/D counts no.	4000 counts.	Power consumption	Approx. DC 1.7 mA.
Range selection	Auto range with manual range selecting.	Dimension	185 x 88 x 40 mm (7.3 x 3.5 x 1.6 inch)
Special function	Relative measurement, Data hold.	Weight	350 g/0.77 LB.
Data hold	To freeze the display reading on the LCD display.	Accessories Included	Red and Black Test Leads (CAT III 1KV Test Leads)..... 1 Set 0.5 Amp Spare Fuse..... 1 PC Instruction Manual..... 1 PC
Power On/Off management	Auto power of or manual power off. @ Details please refer page 8	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
Relative measurement	To offset the measurement value.		
Polarity	Automatic Switching, " - " indicates negative polarity.		
Zero adjustment	Automatic.		
Sampling time	Approx. 0.5 to 1 second.		
Operating Temp.	0 to 50 °C (32 to 122 °F),		

ELECTRICAL SPECIFICATIONS (23± 5°C)			
DC Voltage		Capacitance	
Range	400.0 mV /4 V/40 V/400 V/1000 V	Range	40 nF/400 nF/4 uF/40 uF/100 uF
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Resolution	10 pF/0.1 nF/1 nF/10 nF/0.1 uF
Accuracy	± (0.5%+2d)	Accuracy	± (3%+1d)
Input impedance	10 M ohm.	Frequency	
Over load protection	± 500 DCV, 350 ACV - 200 mV range. ± 1000 DCV, 1000 ACV - other ranges.	Range	4 Hz/40 Hz/400 Hz/4 KHz/40 KHz/ 400 KHz/4 MHz
AC Voltage (True RMS)		Resolution	0.001 Hz/0.01 Hz/0.1 Hz/0.001 KHz/0.01 KHz 0.1 KHz/0.001 MHz
Range	400.0 mV /4 V/40 V/400 V/1000 V	Accuracy	± (0.5%+2d)
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Sensitivity	Min. 1.5 V rms, Max. 5 V rms.
Accuracy	± (1%+2d) * Spec. are tested under 50/60 Hz.	Duty	
Input impedance	10 M ohm.	Range	1 % to 99 %
Over load protection	± 500 DCV, 350 ACV - 200 mV range. ± 1000 DCV, 1000 ACV - other ranges.	Resolution	0.1 %
AC Current (True RMS)		Accuracy	± 1% duty
DC Current		Measuring signal and level	Function switch set to " Hz " : 2 Vp-p to 5 Vp-p, square wave 10 KHz max. Function switch set to "ACV", "ACA" : 50 Hz to 500 Hz
Range	10 A/400 mA/40 mA/4000 uA/400 uA	OHMS	
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA	Range	400/4 K/40 K/400 K/4 M/40 M ohm
Accuracy	400 mA/40 mA/4000 uA/400 uA : ± (0.5%+2d) 10 A : ± (1.5%+2d) * ACA spec. are tested under 50/60 Hz.	Resolution	0.1/1/10/100/1 K/10 K ohm
Over load protection	10A range : 10A fuse. uA, mA range : 500 mA fuse.	Accuracy	400 ohm ± (0.5%+2d) 4K/40K/400K/4 M ± (2%+5d) 40 M
Diode (Forward voltage, VF)		Over load protection	± 350 DCV, 350 ACV
Range	4 V DC.	Continuity Beeper	
Resolution	0.001 V.	Beeper will sound if measured resistance less than 20 ohm.	
Accuracy	± (0.5%+2d)		

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

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