

no battery, Patent

# GREEN POWER MULTIMETER

Model : DM-9981G

ISO-9001, CE, IEC1010



No battery  
Generator power



*The Art of Measurement*

LUTRON ELECTRONIC



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# GREEN POWER MULTIMETER

Model : DM-9981G



## FEATURES

* Green power, battery is no need, power supply from the handy generator, operate the generator 10 to 20 seconds will offer 10 minutes energy typically.
* Meet CAT II-1000 V.
* 4000 counts A/D, high resolution.
* ACV, ACA, DCV, DCA, ohms, continuity, Hz, %, Capacitance, Diode, Data hold.
* Auto range or manual range with hold.
* Data hold.
* Auto shut off is available to save battery life.
* Both 10 A, mA, uA current are build fuses for safety consideration.
* 10 M ohm impedance for voltage circuit.
* Built-in overload protection for most ranges.
* Patent.
* 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

Green power	Green power, battery is no need, power supply from the handy generator, operate 10 to 20 seconds the generator will offer 10 minutes energy typically.
Display	46 mm x 23 mm large LCD display.
Measurement	AC, ACA, DCV, DCA, ohms, continuity beeper, Hz, %, Capacitance, Diode, Data hold.
A/D counts no.	4000 counts.
Range selection	Auto range with manual range selecting.
Data hold	To freeze the display reading on the LCD display.
Power On/Off management	Auto power of or manual power off.
Polarity	Automatic Switching, " - " indicates negative polarity.
Zero adjustment	Automatic.
Sampling time	Approx. 0.5 to 1 second.
Operating Temperature	0 to 50 °C (32 to 122 °F).
Operating humidity	Less than 80% RH.
Power Supply	Power from the handy generator, battery is no need.
Dimension	152 x 78 x 45 mm (6.0 x 3.1 x 1.8 inch)
Weight	350 g/0.77 LB.
Accessories Included	Red and Black Test Leads..... 1 Set 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.

## ELECTRICAL SPECIFICATIONS (23 ± 5°C)

<b>DC Voltage</b>	
Range	400.0 mV /4 V/40 V/400 V/600 V
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V
Accuracy	± ( 1% + 3d )
Input impedance	10 M ohm.
Over load protection	± 500 DCV, 350 ACV - 400 mV range. ± 1000 DCV, 1000 ACV - other ranges.

<b>AC Voltage</b>	
Range	4 V/40 V/400 V/600 V
Resolution	1 mV /10 mV /100m V/1 V
Accuracy	± ( 2.5% + 5d ) * Spec. are tested under 50/60 Hz.
Input impedance	10 M ohm.
Over load protection	± 1000 DCV, 1000 ACV

<b>DC Current</b>	
Range	10 A/400 mA/40 mA/4000 uA/400 uA
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA
Accuracy	uA, mA range : ± ( 1.5% + 3d ) 10 A : ± ( 3.5% + 5d )
Over load protection	10A range : 10A fuse. uA, mA range : 500 mA fuse.

<b>AC Current</b>	
Range	10 A/400 mA/40 mA/4000 uA/400 uA
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA
Accuracy	uA, mA range : ± ( 2.5% + 5d ) 10 A : ± ( 3.5% + 5d ) * Spec. are tested under 50/60 Hz.
Over load protection	10A range : 10A fuse. uA, mA range : 500 mA fuse.

<b>Ohms</b>	
Range	400/4 K/40 K/400 K/4 M/40 M ohm
Resolution	0.1/1/10/100/1 K/10 K ohm
Accuracy	400 ohm ± ( 1% + 3d ) 4K/40K/400K/4 M ± ( 3% + 5d ) 40 M
Over load protection	± 500 DCV, 350 ACV

<b>Capacitance</b>	
Range	40 nF/400 nF/4 uF/40 uF/100 uF
Resolution	10 pF/0.1 nF/1 nF/10 nF/0.1 uF
Accuracy	± ( 3% + 5d )

<b>Frequency</b>	
Range	4 Hz/40 Hz/400 Hz/4 KHz/40 KHz/ 400 KHz/4 MHz
Resolution	0.001 Hz/0.01 Hz/0.1 Hz/0.001 KHz/0.01 KHz 0.1 KHz/0.001 MHz
Accuracy	± ( 0.3% + 3d )
Sensitivity	Min. 1.5 V rms, Max. 5 V rms.

<b>Duty</b>	
Range	1 % to 99 %
Resolution	0.1 %
Accuracy	± 1% duty
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

<b>Diode ( Forward voltage, VF )</b>	
Range	4 V DC.
Resolution	0.001 V.
Test voltage	1.6 DCV
Test current	1 ± 0.6 mA

<b>Continuity Beeper</b>	
* Beeper will sound if measured resistance less than 100 ohm.	
* Response time : < 100 mS.	

PATENT	CHINA : ZL200620012764.3 JAPAN : 3130269	GERMANY : Nr.202006007329.9 U.S.A. : PATENT PENDING	TAIWAN : M299401
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