

*NO battery, Hybrid power, Innovation, Patent*

# **GREEN POWER SMART CLAMP METER**

**Model : CM-9942G**

**ISO-9001, CE, IEC1010**



**LUTRON ELECTRONIC**

***The Art of Measurement***

Green power, hybrid power

# SMART CLAMP METER

Model : CM-9942G

## 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.
* Hybrid power, meter's power also can supply by the battery.
* Meet CAT III-600 V.
* 6000 counts A/D, high resolution.
* ACV, ACA, DCV, ohms, continuity, Hz, Capacitance, Diode, Data hold.
* Smart function, Auto range.
* Smart operation, Build in 4 intelligent function : " A ", " Ω ", " V ".
* " A " function can measure ACA with auto range.
* " V " function can select ACV, DCV automatically with auto range.
* " Ω " function can select the Resistance , Diode, Continuity beeper, Capacitance automatically with auto range.
* Data hold function for ACA measurement.
* Auto shut off is available to save battery life.
* 10 M ohm impedance for voltage circuit.
* Built-in overload protection for most ranges.
* LSI circuit provides high reliability and durability.
* 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.

Power consumption	DC 3.9 mA.
Weight	310 g/0.68 LB.
Dimension	228 x 85.7 x 45.6 mm ( 9.0 x 3.4 x 1.8 inch )
Accessories Included	Red and Black Test Leads..... 1 Set Instruction Manual..... 1 PC
Optional accessories	Carrying case : CA-05A. 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/AC Voltage * auto range</b>	
Range	6 V /60 V/600 V
Resolution	0.001 V /0.01 V/0.1 V
Accuracy	DCV : ± ( 1 % + 2d ) ACV : ± ( 1.2 % + 5d )
Input impedance	10 M ohm.
Over load protection	AC/DC 600 V.
Remark	* The input impedance is 10 Mega ohm. * ACV specification be tested on sine wave 50/60 Hz. * For smart function ,the ACV start measurement voltage is larger than 400 mV ± 100 mV.

## GENERAL SPECIFICATIONS

Green power and Hybrid 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. * Hybrid power, meter also can supply by the battery power.
Display	40 mm x 30.3 mm large LCD display.
Measurement	ACV, ACA, DCV, DCA, ohms, continuity beeper, Hz, Capacitance, Diode, Data hold.
A/D counts no.	6000 counts.
Range selection	Smart function, auto range.
Smart function	" A " function can measure ACA with auto range. " V " function can select ACV, DCV automatically with auto range. " Ω " function can select the Resistance, Diode, Continuity beeper, Capacitance automatically with auto range.
Data hold	To freeze the display reading on the LCD display. * Available for ACA measurement only.
Power On/Off management	Manual power off. Auto power off : If meter is not operated within 3 minutes will auto power switch off.
Polarity	Automatic Switching, " - " indicates negative polarity.
Max. jaw open size	45 mm ( 1.77 inch ) Dia.
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	Green power : Power from the handy generator, battery is no need. Battery power : DC3V battery ( CR-2032 ) x 2 PCs.

<b>AC Current * auto range</b>	
Range	600 A/1000 A
Resolution	0.1 A/1 A
Accuracy	600 A range ± ( 1.5% + 2d ) 1000 A range ± ( 2% + 8d )
Over load protection	AC 1000A.
Remark	* ACA specification be tested on sine wave 50/60 Hz. * Measurement range : 0.10 A to 1000 A

<b>OHMS * auto range</b>	
Range	600/6 K/60 K/600 K/6 M ohm
Resolution	0.1/1/10/100/1 K ohm
Accuracy	± ( 1% + 3d )
Over load protection	± 500 DCV, 350 ACV

<b>Capacitance * auto range</b>	
Range	6 nF/60 nF/600 nF/6 uF/60 uF
Resolution	0.001 nF/0.01 nF/0.1 nF/0.001 uF/0.01 uF
Accuracy	± ( 3% + 5d )
Remark	Discharge capacitor before testing.

<b>Frequency</b>	
Range	40 Hz to 1 KHz.
Resolution	1 Hz.
Accuracy	± ( 0.3% + 2d )
Input impedance	10 M ohm.
Over load protection	AC/DC 600 V.

<b>Diode</b>	
Short/non conductance, good/defect test.	

<b>Continuity</b>	
If measuring resistance is less than 10 ohm, the beeper will sound .	

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