

# 2000A DCA/ACA CLAMP+DMM

Model : CM-9930

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**

## FEATURES

- \* 2 in 1, 2000 A clamp meter + Digital multimeter.
- \* Meet IEC 1010 CATIII 1000V safety requirement.
- \* True rms reading for ACV & ACA measurement.
- \* 4000 counts, Auto range, multi-functions for ACA, DCA, ACV, DCV, Ohms, Capacitance, Hz, Diode, Duty cycle and continuity check.
- \* LSI circuit provides high reliability and durability.
- \* Wide ranges ( 2000A, 400 A ) clamp on current measurement both for ACA & DCA.
- \* 4 ranges ( 400 uA, 4000 uA, 40 mA, 400 mA ) direct current input measurement both for ACA & DCA.
- \* Overload protection circuit is provided for all ranges.
- \* Data hold, Relative key, Back light.

***The Art of Measurement***

# 2000A DCA /ACA CLAMP METER + DMM, 2 in 1

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FEATURES	
* 2 in 1, 2000 A clamp meter + Digital multimeter.	* Wide ranges ( 2000A, 400 A ) clamp on current measurement both for ACA & DCA.
* Meet IEC 1010 CATIII 1000V safety requirement.	
* True rms reading for ACV & ACA measurement.	* 4 ranges ( 400 uA, 4000 uA, 40 mA, 400 mA ) direct current input measurement both for ACA & DCA.
* 4000 counts, Auto range, multi-functions for ACA, DCA, ACV, DCV, Ohms, Capacitance, Hz, Diode, Duty cycle and continuity check.	* Overload protection circuit is provided for all ranges.
	* Data hold, Relative key, Back light.
* LSI circuit provides high reliability and durability.	* Compact & heavy duty ABS and fireproof plastic case.

GENERAL SPECIFICATIONS			
Display	15 mm (0.6") LCD, 4 digits, Max. indication 5000.	Operating Temp.	0 °C to 50 °C (32 °F to 122 °F).
Measurement Range	ACA, DCA, ACV, DCV, Ohms, Diode, Hz, Capacitance, Duty cycle, Continuity beeper.	Operating Humidity	Less than 80% RH.
Polarity	Automatic Switching, "-" indicates negative polarity.	Weight	380 g/0.85 LB (including battery).
Current Sensor	Hall effect sensor.	Dimension	HWD : 255 x 73 x 38 mm. (10 x 2.9 x 1.5 inch)
Zero adjustment	<i>DCA</i> : Push bottom adjustment. <i>Other ranges</i> : Automatic adjustment.	Max. Conductor Size	60 mm ( 2.36 inch ) Dia.
Over-input	Indication of "1" or "-1".	Accessories Included	Operation manual..... 1 PC Test lead (red & black)..... 1 Set Fuse ( 500 mA, 5 mm dia. x 20 mm ) .... 1 PC
Sampling Time	Approx. 0.35 second.	Optional Accessories & Adapters	Carrying case, Temperature Adapter, Light Adapter, Anemometer Adapter, Pressure Adapter, RH Adapter, Tachometer Adapter, High Voltage Probe.
Battery	DC 9V battery, heavy duty or Alkaline type, 006P, MN1604 ( PP3 ) or equivalent.		
Power Consumption	Approx. DC 5 mA.		

ELECTRICAL SPECIFICATIONS (23± 5 °C)				
<i>Function</i>	<i>Range</i>	<i>Resolution</i>	<i>Accuracy</i>	<i>Overload Protection</i>
DC/AC Voltage	400 mV (DC only)	0.1 mV	± ( 0.5 % + 2d )	AC/DC 1000 V.
	4 V	0.001V	<i>DCV</i> : ± ( 1 % + 2d )	
	40 V	0.01V		
	400 V	0.1 V	<i>ACV</i> : ± ( 1.2 % + 5d )	
	1000V	1 V		
DC / AC Current (Direct input)	400 uA	0.1 uA	± ( 1.2% + 5d )	AC/DC 500 mA ( Fuse )
	4000 uA	1 uA		
	40 mA	0.01 mA		
	400 mA	0.1 mA		
DC /AC current (Clamp on)	400 A	0.1 A	± ( 2 % + 5 d )	AC/DC 2000A/1000V
	2000 A	1 A	± ( 2 % + 8 d )	
<b>Remark</b>	* <b>True rms measurement both for ACV, ACA function.</b> * <i>Input impedance for ACV &amp; DCV range is 10 Mega ohm.</i> * <i>ACA, ACV frequency response is from 45 to 1 KHz.</i> * <i>ACA, ACV specification be tested on sine wave 50/60 Hz.</i>			
<i>Function</i>	<i>Range</i>	<i>Resolution</i>	<i>Accuracy</i>	<i>Overload Protection</i>
Ohms	400 ohm	0.1 ohm	± ( 1 % + 5 d )	AC / DC 400V
	4 K ohm	1 ohm		
	40 K ohm	10 ohm		
	400 K ohm	100 ohm	± ( 2 % + 2 d )	
	4 M ohm	1 K ohm		
	40 M ohm	10Kohm		
Capacitance	50 nF	10 pF	± ( 3 % + 5d )	AC / DC 400V
	500 nF	100 pF		
	5 uF	0.001 uF		
	50 uF	0.01 uF		
Frequency ( > 5 V )	5 Hz	0.001 Hz	± ( 1 % + 5 d )	AC / DC 1000V
	50 Hz	0.01 Hz		
	500 Hz	0.1 Hz		
	5 KHz	1 Hz		
	50 KHz	0.01 KHz		
	500 KHz	0.1 KHz		
Duty cycle	1 % to 99 %	0.1 %		
Diode	Short/non conductance, good/defect test			
Continuity	If rmeasuring esistance is less than 10 ohm, the beeper will sound .			

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