

2000A DCA/ACA CLAMP+DMM

Model : CM-9930

ISO-9001, CE, IEC1010



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.



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The Art of Measurement

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* 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 (frequency range).	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	DCA : Push bottom adjustment. Other ranges : Automatic adjustment.	Max. Jaw Open Size	51 mm (2.1 inch) Dia.
Over-input	Indication of " OL " or " -OL ".	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, EMF Adapter, Light Adapter, Anemometer Adapter, Pressure Adapter, Sound 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)				
Function	Range	Resolution	Accuracy	Overload Protection
DC/AC Voltage	400 mV (DC only)	0.1 mV	± (0.5 % + 2d)	AC/DC 1000 V.
	4 V	0.001V	DCV: ± (1 % + 2d)	
	40 V	0.01V	ACV: ± (1.2 % + 5d)	
	400 V	0.1 V		
	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)	
Remark	* True rms measurement both for ACV, ACA function. * Input impedance for ACV & DCV range is 10 Mega ohm. * ACA, ACV frequency response is from 45 to 1 KHz. * ACA, ACV specification be tested on sine wave 50/60 Hz.			

Function	Range	Resolution	Accuracy	Overload Protection
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		
	4 M ohm	1 K ohm		
	40 M ohm	10Kohm		
Capacitance	50 nF	10 pF	± (3 % + 5d) * See Remark	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		
	100 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.

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