Smart, 1,000 A, economical CAT III 1,000 V, CAT IV 600 V

DCA/ACA CLAMP METER

Model: CM-6146 *ISO-9001, CE, IEC1010*



Smart, 1,000 A, economical DCA/ACA CLAMP METER

Model: CM-6146

* V : Smart ACV/DCV Automatically.

* Ω : Resistance, Diode, Continuity, Capacitance. Automatically.

* 600A : Smart DCA/ACA.

* 1000A : Smart DCA/ACA.

* Function keys : Select, Zero, Hz, Range, Hold.

* CAT III 1000V, CAT IV 600V.

* 32 mm measuring conductor size.

* Auto power off.





The Art of Measurement

Smart, 1000 A, IEC1010 CAT III 1000V

DCA/ACA CLAMP METER

Model: CM-6146

FEATURES

*	Meet IEC 1010 CAT III 1000 V safety requirement.
*	6000 counts A/D, high resolution.
*	ACV, ACA, DCV, DCA, ohms, continuity, Hz,
	Capacitance, Diode.
*	Smart function, Auto range or manual range with hold.
*	Smart operation, Build in 4 intelligent function:
" \	/ ", " Ω "," 600A ", " 1000A ".
	* " V " function can select ACV, DCV automatically with
	auto range.
*	" Ω " function can select the Resistance , Diode,
	Continuity beeper, Capacitance automatically with
	auto range.
*	" 600A " & " 1000A " function can select ACA, DCA
	automatically.
*	Data hold .
*	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.
*	Uses durable, long-lasting components, enclosed in
	strong, light weight ABS-plastic housing.
*	Full line optional adapters : Clamp adapter,
	Pressure adapter,
	Sound level adapter, Anemometer adapter,
	Light adapter, EMF adapter.

GENERAL SPECIFICATIONS

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Display	39.5 mm x29.8 mm large LCD display		
Measurement	DCV, ACV, DCA, ACA, Resistance,		
	Capacitance, Frequency,		
	Diode, Continuity beeper.		
A/D counts no.	6000 counts.		
Smart function	" V " function can select ACV, DCV		
	automatically with auto range.		
	" Ω " function can select the Resistance, Diode,		
	Continuity beeper, Capacitance automatically		
	with auto range.		
	600A " " 1000A " function can measure		
	ACA, DCA .		
Data hold	To freeze the display reading on the LCD display		
Power On/Off	Auto power of or manual power off.		
management			
Hz button	When execute the voltage or current		
	function also can measure the frequency		
	of signal.		
Selection	Smart function or auto function .		
Range	manual range selecting.		
Polarity	Automatic Switching, " - " indicates		
	negative polarity.		
Sampling time	Approx. 0.5 to 1 second.		
Operating	0 °C to 50 °C (32 °F to 122 °F)		
Temperature			
Operating	Max. 80% R.H.		
Humidity			
Power supply	DC 9 V battery		
	006P, MN1604		
Power	Approx. DC 9.1 mA.		
consumption			
Max. Conductor	32 mm (1.3 inch) Dia.		
Size			
* Appearance and specifications listed in this brochure are subject to change			

Dimension	241 x94 x 46 mm (9.5 x 3.7 x 1.8 inch).
Weight	380 g/0.83 LB (w/o battery).
Accessories	Red and Black Test Leads 1 Set
Included	Instruction Manual 1 PC
Optional	Full line adapters :
accessories	ACA/DCA current adapter,
	Pressure adapter,
	Light adapter,
	EMF adapter,
	Sound level adapter,
	High voltage probe.

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$ C)

DC Voltage

Range	600 mV /6 V/60 V/600 V /1000 V
Resolution	0.1 mV /0.001V /0.01V /0.1V/1 V
Accuracy	600 mV: ± (0.8% + 2d)
	6 V, 60 V, 600 V, 1000 V : ± (0.8% + 1 d)
Input impedance	10 M ohm.
Over load	600 mV range : ± 500 DCV, 350 ACV
protection	other ranges : ± 1000 DCV, 1000 ACV

AC Voltage

710 Tollago	
Range	6 V/60 V/600 V/1000 V
Resolution	0.001V /0.01V /0.1V/1 V
Accuracy	± (1% + 2d)
	* Spec. are tested under 50/60 Hz.
Input impedance	10 M ohm.
Over load	600 mV range : ± 500 DCV, 350 ACV
protection	other ranges : ± 1000 DCV, 1000 ACV

DC Current, AC Current

20 04.10.11, 110 04.110.11			
Range	600A/1000A		
Resolution	0.1A /1A		
Accuracy	600 A Range	±	(1.5% +15d)
	1000 A Range	±	(2% +8d)
Over load	AC/DC 1000A		
protection			
Remark	* ACA specification be tested on		
	sine wave 50/60 Hz.		
* Measurement range :		e: 0.1A to 1000A	

Diode

Short/non conductance, good/defect test

Capacitance

6 nF/60 nF/600 nF/6 uF/60 uF/600 uF
0.001nF/0.01nF/0.1 nF/0.001uF/0.01uF/0.1uF
± (3 % + 5d)
± 30 DCV, 30 ACV.
Discharge capacitor before testing.

Frequency

Range	40 Hz to 1 KHz
Resolution	0.001 KHz
Accuracy	± (0.5% + 2d)
Over load	± 1000 DCV, 1000 ACV.
protection	

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