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

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- 1. Smart ACV/DCV Automatically.
- Resistance, Diode Continuity, Capacitance Automatically.
- 3. 600A : Smart DCA/ACA.
- 4. 1000A : Smart DCA/ACA.
- Function keys : Select, Zero, Hz, Range, Hold.
- 6. CAT III 1000V, CAT IV 600V.
- 7. 32 mm measuring conductor size.
- 8. Auto power off.



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The Art of Measurement

DCA/ACA CLAMP METER

Model : CM-6146

FEATURE

* 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 : " V ", " 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, Tachometer adapter, Pressure adapter, Humidity Adapter, Sound level adapter, Anemometer adapter, Light adapter, EMF adapter.

GENERAL SPECIFICATION

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		
ower On/Off management Auto power of or manual power off.			
Hz button	When execute the voltage or current function also can measure the		
	frequency		
	of signal.		
Selection Range	Smart function or auto function . manual range selecting.		
Polarity	Automatic Switching, " - " indicates negative polarity.		
Sampling time	Approx. 0.5 to 1 second.		
Operating Temperature	0 $^{\circ}\mathrm{C}$ to 50 $^{\circ}\mathrm{C}$ (32 $^{\circ}\mathrm{F}$ to 122 $^{\circ}\mathrm{F}$)		
Operating Humidity	Max. 80% R.H		
Power supply	DC 9 V battery 006P, MN1604		
Power consumption	Approx. DC 9.1 mA.		
Max. Conductor Size	32 mm (1.3 inch) Dia		
Dimension	241 x94 x 46 mm (9.5 x 3.7 x 1.8 inch).		
Weight	373 g/0.82 LB (w/o battery).		
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 \pm 5 $^\circ \!\!\! C$)

DC Voltage

0			
Range	600 mV /6 V/60 V/600 V /1000 V		
Resolution	0.1 mV/0.001 V/0.01 V/0.1	0.1 mV/0.001 V/0.01 V/0.1 V/1 V	
Accuracy	± (0.8% + 2d)	600 mV	
	± (0.8% + 1d)	6 V, 60 V, 600 V, 1000 V	
Input impedance	10 M ohm.		
Over load protection	600 mV range	± 500 DCV, 350 ACV	
	other ranges	± 1000 DCV, 1000 ACV	

AC Voltage

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 protection	600 mV range± 500 DCV, 350 ACV	
	other ranges ± 1000 DCV, 1000 ACV	

DC Current, AC Current

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

Diode

Short/non conductance, good/defect test

Capacitance

Range	6 nF/60 nF/600 nF/6 uF/60 uF/600 uF
Resolution	0.001nF/0.01nF/0.1 nF/0.001uF/0.01uF/0.1uF
Accuracy	± (3%+5d)
Over load protection	± 30 DCV, 30 ACV.
Remark	Discharge capacitor before testing.

Frequency

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

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

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