SD Card real time data recorder, true rms

DCA/ACA CLAMP METER

Model: CM-6010SD *ISO-9001, CE, IEC1010*









The Art of Measurement

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FEATURES

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* Real time data logger, save the data into the micro SD memory card and can be
downloaded to the Excel, extra software is noneed.
* Real time data logger, built-in clock (year/month/date/hour minute/second),
sampling time can be set from 2 to 7200seconds.
* Measurement functions : ACA. DCA. ACV, DCV. Resistance, Diode, Continuity,
Capacitance, Temp. (optional Temp. probe)
* ACA range: 0 to 2000 ACA, auto range.
* DCA range: 0 to 2000 DCA, auto range.
* ACV range: 0 to 1000 ACV, auto range.
* DCV range: 0 to 1000 DCV, auto range.
* Resistance range : 0 to 60 Megohm, auto range.
* True rms measurement for ACV, ACA.
* CAT III 1000V, CAT IV 600V.
* DCA zero button.
* Hold, Peak (Max., Min. measuring value).
* 50 mm measuring conductor size.
* ACV, DCV input impedance is 10 Megohm.
* LCD with backlight.
* Micro SD memory card capacity: 1 GB to 32 GB, micro SD card.
* Powered by DC 1.5V (UM-3/AA) x 2 PCs batteries (Alkaline type) or DC 9V
adapter. SD card data record function is available when the power supply is to use
the DC 9V adapter.
* RS232/USB computer interface.
* Carrying case is included.
* Optional USB cable, USB-01.
* Optional data acquisition softwares, SW-U801-WIN, SW-E802.
* Optional type K Temp. probe, TP-11.

Display sampling time	Approx. 1 second.
Data Output	RS232 computer serial interface :
USB/RS232	* Connect the optional USB cable USB-01 will get the USB plug.
* Computer	* Connect the optional RS232 cable UPCB-02 will get the RS232
interface	plug.
Operating	0 to 50 $^{\circ}$ C (32 to 122 $^{\circ}$ F).
Temp.	
Operating Humidity	80% Relative Humidity max.
Power Supply	* DC 1.5V, AA (UM-3) Battery x 2 PCs (Alkaline or
	heavy-duty battery).
	* AC to DC 9V power adapter (Linear type).
Power Consumption	34 mA DC.
Max. Conductor size	Clamp can accommodate up to 2.0" (50 mm) diameter.
Dimensions	11.0 x 4.2 x 1.9" (280 x 106 x 47mm)
Accessories Included	Instruction manual
	Test Leads
	Alligator clips1 Set (2 pieces)
	Carrying case1 PC
Optional	* Micro SD card(8 GB)
accessories	* Type K Temp. probe, TP-11.
	* AC to DC 9V adapter (Linear type).
	* USB cable,USB-01.
	* RS232 cable,UPCB-02.
	* Data Acquisition software,SW-U801-WIN.

GENERAL SPECIFICATIONS:

GENERAL SPECIFIC	ATTONS.		
Circuit	Custom single-chip microprocessor LSI circuit.		
Display	LCD Size: 3.2 X 2.4" (60 X 44.4 mm).		
	Dot Matrix backlight LCD (128 X 64 pixels).		
Measurements	DCV/ACV		
	DCA/ACA		
	Resistance/DI	ODE/Continuity Beeper	
	Capacitance		
	Frequency		
	Temperature		
A/D counts no.	6000 counts.		
Voltage ranges	0.5 mV to 100	00 V (DCV/ACV, Auto or Manual Range).	
Current ranges	0.5 ACA to 20	00 ACA (DCA/ACA, Auto or Manual Range).	
Safety standard	IEC1010 CAT	III 1000 V.	
ACV input	10M ohms.		
impedance			
Clamp frequency	40 Hz to 1 KH	z.	
response			
Over-load protection	DCV/ACV	1000 DCV / 1000 ACV RMS.	
	DCA/ACA	2100 DCA/ACA with clamp probe.	
Over-range	* LCD display	show " OL ".	
	* The data save into the SD card will show " 9999 " or " 999 "		
	(overleap th	ne decimal point).	
Data Hold	Freezes displa	yed reading.	
Data Recording	Micro SD mem	nory card (1 GB to 32 GB).	
Relative measure.	To offset the	measurement value.	
Peak to Peak	DCV/ACV,DCA	/ACA peak to peak measurement value.	
DCA zero adj.	DCA zero adju	ıstment.	
Range selection	Auto range wi	th manual range selecting.	
Polarity	Automatic Swi	itching, " - " indicates negative polarity.	
Data logger	* Real time da	ata logger, saved the data into miro SD memory	
	card and de	own load the all the measured value with the	
	information	(year/month/data/ hour/minute/second) down	
	load to the	Excel.	
	* Sampling time for data logger :		
	2 seconds to 7200 seconds.		
	* When the s	ystem detects micro SD format does not match with	
	the Machin	e that will be mandatory for reformatting to ensure	
* Data error no. :		ecords can be normal.	
		no. :	
		. of total saved data typically.	

ELECTRICAL SPECIFICATIONS ($23\pm5~\%$):

DCV

Range	Resolution	Accuracy	
600 mV /6 V/60 V/600 V /1000 V	0.1 mV /0.001V /0.01V /0.1V/1 V	600 mV	± (0.8%+2d)
		6V to 1000V	± (0.8%+1d)
Peak to Peak			± (5%+30d)

ACV

Range	Resolution	Accuracy
600 mV /6 V/60 V/600 V /1000 V	0.1 mV /0.001V /0.01V /0.1V/1 V	± (1%+2d)
Peak to Peak		± (5%+30d)

DCA,ACA

Range	Resolution	Accuracy	
0.5A to 2000A	0.1A/1 A	600A	± (1%+12d)
		2000A	± (1%+8d)
Peak to Peak			± (5%+30d)

OHMS

Range	Resolution	Accuracy	
600/6K/60K/600K/6M/60M	0.1Ω /0.001K/0.01K/0.1K/0.001M	600 ohm	± (1%+2d)
	/0.01M	6K to 60M	± (1.5%+2d)

DIODE

Short/non conductance, good/defect test

Continuity Beeper

Beeper will sound if measured resistance less than 5 ohm

Capacitance

Range	Resolution	Accuracy
6 nF/60 nF/600 nF/6 uF/60 uF/600 uF	0.001nF/0.01nF/0.1 nF/	± (3%+5d)
	0.001uF/0.01uF/0.1uF	

Frequency(ACV > 6.5V,ACA > 15A)

Range	Resolution	Accuracy
40Hz to 999.9Hz	0.1Hz	± (0.5%+2d)

Type K Temperature

Range	Resolution	Accuracy
-100.0℃ to 199.9℃	0.1℃	± (1%+1°C)
200°C to 1300°C	1℃	± (1%+2°C)
-148.0°F to 391.8°F	0.1°F	± (1%+1.8°F)
392°F to 2372°F	1°F	± (1%+3.6°F)
		1609-CM6010SD

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