SD card real time data recorder, CAT IV 600 V

CLAMP POWER ANALYZER

Model : PC-6011SD

ISO-9001, CE, IEC1010





Micro SD card (8GB, included)



Carrying case (included)





The Art of Measurement

SD Card real time data recorder

CLAMP POWER ANALYZER Model : PC-6011SD

Display

Wire

Safety standard

ACV input

impedance Clamp

frequency response Tested clamp

Over-load protection Over-range

Data Hold Datalogger

Data Recording

Sampling Time

configurations

Voltage ranges

Current ranges

Measurements

ACV ACA

KW / KVA/ KVAR/ PF KWH/KVAH/KVARH/PFH Power factor Phase angle Frequency Harmonics display Temperature

1 Phase, 3 Phase

10 M ohms

45 to 65 Hz

Excel.

* Data error no. :

Approx. 1 second

Micro SD memory card

40 Hz to 1 KHz

10 ACV to 600 ACV (Auto Range)

5 ACA to 2000 ACA (Auto Range) IEC1010 CAT IV 600 V

 45 to 55 HZ

 ACV
 720 ACV RMS

 ACA
 2100 ACA with clamp probe

 * LCD display show " OL ".

 * The data save into the SD card will show " 9999 " or " 999 " (overleap without circle a circle a

* Real time data logger, saved the data into SD memory card and down load

* Sampling time for data logger : 2 seconds to 7200 seconds, the during of setting step are 2 $\ seconds$

the all the measured value with the time information (year/month/data/ hour/minute/second) down load to the

the decimal point).

Freezes displayed reading

F	FEATURES				
*	Power quality an	nalyzer for single-phase or balanced			
	three-phasesystem.				
*	Voltage and Cur	rent are the True RMS value.			
*	ACV input impedance is 10 Mega ohms.				
*	True Power (KW < MW < GW) measurement.				
*	Apparent Power (KVA MVA GVA) measurement.				
*	Reactive Power (KVAR MVAR GVAR) measurement.				
*	Power Factory (PF) \cdot Phase Angle (Φ) measurement.				
*	Energy (KWh 、 KVARh 、 PFh) measurement.				
*	Voltage measurement range: 10 to 600 ACV.				
*	Current measure	ement range: 5 to 2000 ACA.			
*	Graphic Phasor	Diagram.			
*	Voltage and Cur	rent harmonic analysis (1-50th order).			
*	Voltage and Current Total Harmonic Distortion analysis				
	(THD) measure	ement.			
*	Voltage and Cur	rent waveforms show.			
*	Peak-to-Peak vo	Itage and current measurement.			
*	Capture Transie	nt events (including Dip, Swell and			
	Outage) with programmable threshold (%).				
*	\ast Thermocouple Temp. sensor:Type K (-100.0 $^\circ\!\!\mathbb{C}$ to				
	199.9℃/200℃ to 1300℃),℃/° F.				
*	Programmable F	PT ratio (1 to 1000).			
*	Safety Standard	: IEC 1010, CAT IV 600V.			
*	Built-in clock and Calendar, real time data record with				
	SD memory card , sampling time set from 2 to 7200				
	seconds. Just slot in the SD card into the computer, it				
	can down load the all the measured value with the				
	time information (year, month, data, hour, minute,				
	second) to the	Excel directly, then user can make the			
	further data ana	lysis by themselves.			
*	Allow save the L	CD screen picture to the photo BMP file,			
	it is the useful to	ool for the user to make the further analysis.			
*	Micro SD CARD	32 GB maximum supported capacity.			
*	Powered by AA	(UM-3) DC 1.5 V X 2 batteries			
	(Alkaline type)	or DC 9V adapter (linear 110V/220V).			
*	Computer data	output, can cooperate with optional			
	USB Cable/USB-	01, RS232 cable/UPCB-02 and Data			
	Acquisition softw	vare, SW-U811-WIN.			
*	Optional type K	probe: TP-11.			
G	GENERAL SPECIFICATIONS				
Ci	Circuit Custom single-chip microprocessor				
		LSI circuit			

LCD Size: 3.2 X 2.4" (60 X 44.4 mm)

Dot Matrix backlit LCD (128 X 64 pixels)

Data Output	* Computer interface		
USB/RS232	* Connect the optional USB cable USB-01		
	will get the USB plug.		
	* Connect the optional RS232 cable		
	UPCB-02 will get the RS232 plug.		
Operating	0 to 50 $^\circ\mathbb{C}$ (32 to 122 $^\circ\mathbb{F}$).		
Temperature			
Operating	80% Relative Humidity max.		
Humidity			
Power Supply	* DC 1.5V, AA (UM-3) Battery X 2 PCs		
	(Alkaline or heavy-duty battery).		
	* AC to DC 9V power adapter		
	(LINEAR 110/220V)		
Power	60 mA DC		
Consumption			
Max.	Clamp can accommodate up to 2.2" (57		
Conductor size	mm) diameter		
Dimensions	11.0 X 4.2 X 1.9" (280 X 106 X 47mm)		
	Clamp Jaw: 3.5" (90 mm)		
Accessories	Instruction manual 1 PC		
	8 GB micro SD card1 PC		
Included	Test Leads1 set		
	Alligator clips1 set		
	AC to DC 9V adapter		
	(linear 110V/220V)1 PC		
	Carrying case1 PC		

ELECTRICAL SPECIFICATIONS (23±5℃)

ACV

Range	Resolution	Accuracy
10 to 600 V(RMS)	0.1 V	± (0.5%+3d)
Peak to Peak		± (5%+30d)

ACA

Range	Resolu	ution	Accuracy
10.00A to 2000A	0.01A	* < 100A	± (1%+0.5A)
	0.1A	* \leq 100A and < 1000A	≦ 200A
	1A	* \geq 1000A	± (5%+5A)
			> 200A
Peak to Peak			± (5%+30d)

Range	Resolution	Accuracy
0.00 to 1.00	0.01	± 0.04

± 1° *ACOS(PF)

Frequency			
Range	Resolution	Accuracy	
45 to 65 Hz	0.1 Hz	± 0.1 Hz	
-			

Active/Apparent/Reactive POWER Range Resolution Accuracy 0.001K-0.001M(W/VA/VAR) ± (1.5%+20d) 0.0 to 1.8M (W/VA/VAR) Active/Apparent/Reactive POWER Hour:(WH/SH/QH)

Range Resolution Accuracy 0.000K to 9.9999M 0.001K to 0.001M ± (1.5%+20d) (WH/VAH/VARH) (W/VA/VARH) ± (1.5%+20d)	ACUVC/	пррагену кеасы	NC TOWER HOUR (WH/SH/QH)				
(WH/VAH/VARH) (W/VA/VARH)	Range		Resolution	Accuracy			
			0.001K to 0.001M	± (1.5%+20d)			
Harmonics Magnitude (Harmonic Lovel > E% Error E0/60 H			(W/VA/VARH)				
Harmonics Magnitude (Harmonic Loval > EN/ ErogyE0/60 H							
Harmonics Magnitude (Harmonic Level > 5% , Freq:50/60 Hz							
Range Resolution Accuracy		Range	Resolution	Accuracy			
ACV 1 to 20th 0.1V ± (2%+5d)	ACV	1 to 20th	0.1V	± (2%+5d)			
21 to 50th ± (4%+5d)		21 to 50th		± (4%+5d)			
ACA 1 to 20th 0.1A to 1A ± (2%+5d)	ACA	1 to 20th	0.1A to 1A	± (2%+5d)			
21 to 50th $\pm (4\%+5d)$		21 to 50th		± (4%+5d)			

Harmonics Percentage (Harmonic Level > 5%, Freq:50/60 Hz)

	Range	Resolution	ACCUIACY
ACV	1 to 20th	0.1 %	± (2%+10d)
	21 to 50th		± (4%+20d)
ACA	1 to 20th	0.1 %	± (2%+10d)
	21 to 50th		± (4%+20d)

Total Harmonic Distortion

Range	Resolution	Accuracy
0 to 20 %	0.1 %	± (2%+5d)
20.1 to 100%		± (6%+10d)

Type K Temperature

\leq 0.1% no. of total saved data typically.	Type K Temperature			
1icro SD memory card	Range	Resolution	Accuracy	
pprox. 1 second	-100.0°C to 199.9°C	0.1°C	± (1%+1°C)	
	200°C to 1300°C	1°C	± (1%+2°C)	
pecifications listed in this brochure are subject to change without notice. 1503-PC6011SD				

* Appearance and specifications listed in this brochure are su