CLAMP POWER ANALYZER

Model: PC-6011SD *ISO-9001, CE, IEC1010*







Carrying case (included)





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FEATURES

*	Power quality analyzer for single-phase or balanced		
L	three-phasesystem.		
*	Voltage and Current 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) · Phase Angle (Φ) measurement.		
*	Energy (KWh · KVAh · KVARh · PFh) measurement.		
*	Voltage measurement range: 10 to 600 ACV.		
*	Current measurement range: 10 to 2000 ACA.		
*	Graphic Phasor Diagram.		
*	Voltage and Current harmonic analysis (1-50th order).		
*	Voltage and Current Total Harmonic Distortion analysis		
L	(THD) measurement.		
*	Voltage and Current waveforms show.		
*	Peak-to-Peak voltage and current measurement.		
*	Capture Transient events (including Dip, Swell and		
	Outage) with programmable threshold (%).		
*	Thermocouple Temp. sensor:Type K ($\text{-}100.0^{\circ}\text{C}$ to		
	199.9℃/200℃ to 1300℃),℃/℉.		
*	Programmable 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		
L	further data analysis by themselves.		
*	Allow save the LCD screen picture to the photo BMP file,		
L	it is the useful tool for the user to make the further analysis.		
*	SD CARD 4 GB maximum supported capacity.		
*	Powered by AA (UM-3) DC 1.5 V X 2 batteries		
	(Alkaline type) or DC 9V adapter.		
*	Computer data output, can cooperate with optional		
	USB Cable/USB-01, RS232 cable/UPCB-02 and Data		
L	Acquisition software, SW-811.		
*	Optional type K probe: TP-11.		

GENERAL SPECIFICATIONS

	711 10/11 10/10
Circuit	Custom single-chip microprocessor
	LSI circuit
Display	LCD Size: 3.2 X 2.4" (60 X 44.4 mm)
' '	Dot Matrix backlit LCD (128 X 64 pixels)
Measurements	ACV
casar ciricina	ACA
	KW / KVA/ KVAR/ PF
	KWH/KVAH/KVARH/PFH
	Power factor
	Phase angle
	Frequency
	Harmonics display
	Temperature
Wire	1 Phase, 3 Phase
configurations	1 Pliase, 3 Pliase
Voltage ranges	10 ACV to 600 ACV (Auto Range)
Current ranges	10 ACA to 2000 ACA (Auto Range)
Safety	IEC1010 CAT IV 600 V
standard	IEC1010 CAT IV 600 V
	10 M abma
ACV input	10 M ohms
impedance	40 Hz to 1 KHz
Clamp	40 HZ to 1 KHZ
frequency	
response	45 to 65 Hz
Tested clamp	45 to 65 Hz
Over-load	ACV 720 ACV RMS
protection	ACA 2100 ACA with clamp probe
Over-range	*LCD display show " OL ".
	* The data save into the SD card will
	show " 9999 " or " 999 " (overleap
	the decimal point).
Data Hold	Freezes displayed reading
Datalogger	* Real time data logger, saved the data
	into SD memory card and down load
	the all the measured value with the time
	information (year/month/data/
	hour/minute/second) down load to the
	Excel.
	* Sampling time for data logger:
	2 seconds to 7200 seconds, the during
	of setting step are 2 seconds
1	* Data arrar no .

Data Recording	SD memory card
Sampling Time	Approx. 1 second
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 $^\circ$ C (32 to 122 $^\circ$ 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.
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
Included	Test Leads: 1 Set (2 pieces)
	Alligator clips: 1 Set (2 pieces)
	AC to DC 9V adapter
	Carrying case

ELECTRICAL SPECIFICATIONS (23±5 ℃)

ACV

71CV		
Range	Resolution	Accuracy
10 to 600 V(RMS)	0.1 V	± (0.5%+3d)
Peak to Peak		± (5%+30d)

ACA

Range	Resolution	Accuracy
10.00A to 2000A	0.01A * < 100A	± (1%+5d)
Peak to Peak	0.1A * ≤100A and < 1000A	± (5%+30d)
	1A * ≥ 1000A	

Power factor

Range	Resolution	Accuracy
0.00 to 1.00	0.01	± 0.04

Φ (Phase angle)

Frequency

Range	Resolution	Accuracy
-180° to 180°	0.1°	± 1° *ACOS(PF)

Resolution

Range 45 to 65 Hz

Active/Apparent/Reactive POWER				
Range	Resolution	Accuracy		
0.0 to 1.8M (W/VA/VAR)	0.001K-0.001M(W/VA/VAR)	± (1.5%+8d)		

Accuracy ± 0.1 Hz

Active/Apparent/Reactive POWER Hour:(WH/SH/QH)

Range	Resolution	Accuracy
0.0W to 1.8M	0.001K to 0.001M	± (1.5%+8d)
(WH/VAH/VARH)	(W/VA/VARH)	

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

	Range	Resolution	Accuracy
ACV	1 to 20th	0.1V	± (2%+5d)
	21 to 50th		± (4%+5d)
ACA	1 to 20th	0.1A to 1A	± (2%+5d)
	21 to 50th	1	± (4%+5d)

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

	Range	Resolution	Accuracy
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

Range	Resolution	Accuracy
-100.0℃ to 199.9℃	0.1℃	± (1%+1°C)
200°C to 1300°C	1℃	± (1%+2°C)

 $[\]leq$ 0.1% no. of total saved data typically. * Appearance and specifications listed in this brochure are subject to change without notice.