CLAMP POWER ANALYZER

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





Micro SD card (8GB, included)



Carrying case (included)





The Art of Measurement

CLAMP POWER ANALYZER

Model: PC-6011SD

FEATURES Power quality analyzer for single-phase or balanced 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: 5 to 2000 ACA. Graphic Phasor Diagram * Voltage and Current harmonic analysis (1-50th order) Voltage and Current Total Harmonic Distortion analysis (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 (-100.0°C to 199.9°C/200°C to 1300°C),°C/°F. * 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

	further data analysis by themselves.
*	Allow save the LCD screen picture to the photo BMP file,
	it is the useful tool 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 software, SW-U811-WIN.

* Optional type K probe: TP-11

GENERAL SPECIFICATIONS

Circuit	Custom single-chip microprocessor		
on care	LSI circuit		
Display	LCD Size: 3.2 X 2.4" (60 X 44.4 mm)		
ызрау	Dot Matrix backlit LCD (128 X 64 pixels)		
Measurements	ACV		
Measurements	ACA		
	KW / KVA/ KVAR/ PF		
	KWH/KVAH/KVARH/PFH		
	Power factor		
	Phase angle		
	Frequency		
	Harmonics display		
	Temperature		
Wire	1 Phase, 3 Phase		
configurations	Triase, 5 mase		
Voltage ranges	10 ACV to 600 ACV (Auto Range)		
Current ranges	5 ACA to 2000 ACA (Auto Range)		
Safety	IEC1010 CAT IV 600 V		
standard	1201010 G. (. 17 000 7		
ACV input	10 M ohms		
impedance	20 11 0111115		
Clamp	40 Hz to 1 KHz		
frequency			
response			
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		
	* Data error no. :		
	$\leq 0.1\%$ no. of total saved data typically.		
Data Recording	Micro 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 $^{\circ}\mathrm{C}$ (32 to 122 $^{\circ}\mathrm{F}$).
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	Resolution	Accuracy
10.00A to 2000A	0.01A * < 100A	± (1%+0.5A)
	$0.1A$ * $\leq 100A$ and < $1000A$	A ≦ 200A
	1A * ≥ 1000A	± (5%+5A)
		> 200A
Peak to Peak		± (5%+30d)

Power factor

Range	Resolution	Accuracy
0.00 to 1.00	0.01	± 0.04

Φ (Phase angle)

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

Frequency

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

Active/Apparent/Reactive POWER

range	Resolution	Accuracy
0.0 to 1.8M (W/VA/VAR)	0.001K-0.001M(W/VA/VAR)	± (1.5%+20d)

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)	
	•	

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		± (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°C to 199.9°C	0.1℃	± (1%+1°C)
200°C to 1300°C	1℃	± (1%+2°C)
to change without notice.		1503-PC6011SD

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