

SD card real time data recorder, CAT IV 600 V



CLAMP POWER ANALYZER

Model : PC-6011SD

ISO-9001, CE, IEC1010

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Micro SD card
(8GB, included)



Carrying case (included)

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Lutron

LUTRON ELECTRONIC

The Art of Measurement

SD Card real time data recorder

CLAMP POWER ANALYZER

Model : PC-6011SD

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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 199.9C/200C to 1300C), 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-US11-WIN.
- * Optional type K probe: TP-11.

GENERAL SPECIFICATIONS

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 ACA KW / KVA/ KVAR/ PF KWH/KVAH/KVARH/PFH Power factor Phase angle Frequency Harmonics display Temperature
Wire configurations	1 Phase, 3 Phase
Voltage ranges	10 ACV to 600 ACV (Auto Range)
Current ranges	5 ACA to 2000 ACA (Auto Range)
Safety standard	IEC1010 CAT IV 600 V
ACV input impedance	10 M ohms
Clamp frequency response	40 Hz to 1 KHz
Tested clamp	45 to 65 Hz
Over-load protection	ACV 720 ACV RMS 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. : ≤ 0.1% no. of total saved data typically.
Data Recording	Micro SD memory card
Sampling Time	Approx. 1 second

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Data Output USB/RS232	* Computer interface * 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 Temperature	0 to 50°C (32 to 122°F).
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 110/220V)
Power Consumption	60 mA DC
Max. Conductor size	Clamp can accommodate up to 2.2" (57 mm) diameter
Dimensions	11.0 X 4.2 X 1.9" (280 X 106 X 47mm) Clamp Jaw: 3.5" (90 mm)
Accessories Included	Instruction manual..... 1 PC 8 GB micro SD card..... 1 PC Test Leads..... 1 set Alligator clips..... 1 set AC to DC 9V adapter (linear 110V/220V)..... 1 PC Carrying case..... 1 PC

ELECTRICAL SPECIFICATIONS (23± 5 °C)

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

ACA	Resolution	Accuracy
Range		
10.00A to 2000A	0.01A * < 100A 0.1A * ≤ 100A and < 1000A 1A * ≅ 1000A	± (1%+0.5A) ≤ 200A ± (5%+5A) > 200A ± (5%+30d)
Peak to Peak		± (5%+30d)

Power factor	Resolution	Accuracy
Range		
0.00 to 1.00	0.01	± 0.04

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

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

Active/Apparent/Reactive POWER	Resolution	Accuracy
Range		
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)	Resolution	Accuracy
Range		
0.000K to 9.9999M (WH/VAH/VARH)	0.001K to 0.001M (W/VA/VARH)	± (1.5%+20d)

Harmonics Magnitude (Harmonic Level > 5% , Freq:50/60 Hz)			
ACV	Range	Resolution	Accuracy
	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)			
ACV	Range	Resolution	Accuracy
	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°C	± (1%+1°C)
200°C to 1300°C	1°C	± (1%+2°C)

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

1503-PC6011SD