

**3 phase/4 wire, 3 phase/3 wire, RS232/USB
1 phase/2 wire, 1 phase/3 wire, SD card memory**

3 PHASE POWER ANALYZER

Model : DW-6092

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC



The Art of Measurement

3 PHASE POWER ANALYZER

FEATURES

* Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W
* Voltage & Current are the True RMS value.
* True Power (KW · MW · GW) measurement.
* Apparent Power (KVA · MVA · GVA) measurement.
* Reactive Power (KVAR MVAR · GVAR) measurement.
* Watt-Hour (WH · SH · QH · PFH).
* Power Factor(PF) · Phase Angle(Φ).
* Voltage measurement range : 10 to 600 ACV
* Current measurement range: 0.2A to 1200 ACA.
* Programmable CT ratio (1 to 600) and PT ratio (1 to 1000).
* ACV input impedance is 10 Mega ohms.
* Safety Standard : IEC 1010, CAT III 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.
* Complete set with 4 PCs Test Leads, 4 PCs Alligator clips, 3 PCs Clamp Probe, AC to DC 9V adapter, 2 G SD memory card and Carrying bag.
* Computer data output, can cooperate with USB Cable /USB-01 RS232 cable/UPCB-02 and Data Acquisition software, SW-U801-WIN.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit	
Display	* LCD Size : 81.4 X 61 mm (3.2 X 2.4 inch) * Dot Matrix LCD (320 X 240 pixels) with back light.	
Measurement	* ACV * ACA * AC WATT (True Power) AC WATT(Apparent Power) AC WATT(Reactive Power) * Power factor * Phase angle * Frequency	
Wire connections	1P/2W, 1P/3W, 3P/3W, 3P/4W.	
Voltage ranges	10 ACV to 600 ACV, auto range.	
Current ranges	0.2 ACA to 1200 ACA, auto range/manual range.	
Safety standard	IEC1010 CAT III 600 V.	
ACV input impedance	10 Mega ohms.	
Range select	ACV	Auto range.
	ACA	Auto range & manual range.
Clamp frequency response	40 Hz to 1 KHz.	
Spec. tested frequency	45 to 65 Hz.	
Over load protection	ACV	720 ACV rms
	ACA	1300 ACA with clamp probe CP-1200
Over Indicator	Show " OL ".	
Under Indicator	Show " UR ".	
Data Hold	Freeze the display reading.	
Data Record	SD Card Record.	
Sampling Time	Approx. 1 second.	
Power ON/OFF	Manual OFF by push button.	
Real time data logger	* 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 * Integration time for data logger : 2 seconds to 7200 seconds, the during of setting step are 2 seconds.	

Data Output USB/RS232	RS232 computer serial interface :
* 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 (0 to 122°F).
Operating Humidity	Less than 80% R.H..
Power Supply	* DC 1.5V, AA (UM-3) Battery X 8 PCs (Alkaline or heavy duty battery). * AC to DC 9V power adapter.
Power Consumption	* Meter : 300 DCmA.
Clamp max. conductor Size	* Clamp : 20 DCmA.
Weight	86 mm (3.4 inch) Dia.
Dimension	* Meter: 1049g (includes batteries) * Clamp : 522g Meter : 225 X 125 X 64 mm (8.86 X 4.92 X 2.52 inch) Clamp : 210 X 64 X 33mm (8.3 X 2.5 X 1.3 inch) Clamp Jaw : 86 mm (3.4 inch)- outside
Accessories Included	* Instruction manual..... 1 PC * Test Leads (TL88-4AT)..... 1 Set (4 PCs) * Alligator clips (TL88-4AC) 1 Set (4 PCs) * Clamp Probe (CP-1200)..... 3 PCs * AC to DC 9V adapter..... 1 PC * SD card (2 G)..... 1 PC * Carrying bag.....1 PC
Optional Accessories	* USB Cable , USB-01 * RS232 cable, UPCB-02 * Data Acquisition software, SW-U801-WIN

ELECTRICAL SPECIFICATIONS

ACV

Range	Resolution	Accuracy
10.0V to 600.0V	0.1V	± (0.5%+0.5V)
* Phase to neutral line		
10.0V to 600.0V	0.1V	± (0.5%+0.5V)
* Phase to phase		

ACA

Range	Resolution	Accuracy
20A	0.001A/0.01A	± (0.5%+0.1A)
200A	0.01A/0.1A	± (0.5%+0.5A)
1200A	0.1A/1A	± (0.5%+5A)

AC watt

Range	Resolution	Accuracy
0.000 to 9.999 KW	0.001 KW	± (1%+0.008 KW)
10.00 to 99.99 KW	0.01 KW	± (1%+0.08 KW)
100.0 to 999.9 KW	0.1 KW	± (1%+0.8 KW)
0.000 to 9.999 MW	0.001 MW	± (1%+0.08 MW)

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°

Frequency

Range	Resolution	Accuracy
45 to 65 Hz	0.1 Hz	0.1 Hz