

3 phase/4 wire, 3 phase/3 wire, RS232/USB

1 phase/2 wire, 1 phase/3 wire, SD card memory

1200 A 3 PHASE POWER & Harmonic Analyzer

Model : DW-6095

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

SD card real time data logger

1200 A 3-Phase Power & Harmonic Analyzer

Model : DW-6095

FEATURES	
<ul style="list-style-type: none"> * Large dot-matrix, sun-readable, numerical, backlit LCD Full system analysis with up to 35 parameters V (phase-to-phase), V (phase-to-ground) A (phase-to-ground) KW / KVA / KVAR / PF (phase) KW / KVA / KVAR / PF (system) KWH / KVAH / KVARH / PFH (system) PHASE ANGLE 	<ul style="list-style-type: none"> * Display of Wave form with Peak Values. * Analysis of Total Harmonic Distortion (THD). * Graphic Phase diagram with 3-Phase system parameters. * 3-phase Voltage or Current Unbalanced Ratio (VUR, VIR) and Unbalanced Factor. * Calculated Unbalanced Current through Neutral Line (In). * Capture Transient events (including Dip, Swell and Outage) with programmable threshold (%).
<ul style="list-style-type: none"> * Three 1200 A (1200 A/200 A/20 A, 3 ranges) current clamps, CP-1201-A1, CP-1201-A2, CP-1201-A3 are included. 	<ul style="list-style-type: none"> * Captured measurements can be imported directly into Excel via the SD memory card.
<ul style="list-style-type: none"> * Current clamps except used the CP-1201, user also can use their own Current Clamp (Max. range 3000 A), if its output voltage is AC 200 mV, 300 mV, 500 mV, 1V, 2V or 3V. Above 6 kinds Current Clamp output voltage value along the full range (Max. amperes) can be adjusted on the front panel with default. 	<ul style="list-style-type: none"> * 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/mimute/second) to the Excel directly, then user can make the further data analysis by themselves.
<ul style="list-style-type: none"> * Adjustable Current Transformer CT(1 to 600) and Potential Transformer PT(1 to 1000) ratio for high power distribution systems. 	<ul style="list-style-type: none"> * 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.
<ul style="list-style-type: none"> * Easy-to-use on screen menu. * Easy-to-grab rugged over molded housing. * Clamp-on True RMS power measurements with on-screen Harmonics display (1-50th order). * Simultaneous display of Harmonics and Wave form. 	<ul style="list-style-type: none"> * Computer data output, can cooperate with USB Cable /USB-01 RS232 cable/UPCB-02 and Data Acquisition software, SW-U801-WIN. * Safety Standard : IEC 1010, CAT III 600V

GENERAL SPECIFICATIONS									
Display	<ul style="list-style-type: none"> * LCD Size : 81.4 X 61 mm (3.2 X 2.4 inch) * Dot Matrix LCD (320 X 240 pixels) with back light. 	Sampling Time	Approx. 1 second.						
Wire connections	1P/2W, 1P/3W, 3P/3W, 3P/4W.	Real time data logger	<ul style="list-style-type: none"> * 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/mimute/second) down load to the Excel * Integration time for data logger : 2 seconds to 7200 seconds, the during of setting step are 2 seconds. * If use the 2 GB SD memory card, it can log up to 30,000 reading data (included all measurement factors) in Microsoft Excel format. 						
Measurement	<ul style="list-style-type: none"> ACV (True rms) Active Power (MW) Apparent Power (MVA) Reactive Power (MVAR) Power Factor Frequency Range Phase Harmonics Crest Factor Peak AC Voltage Peak AC Current Active Power Energy (MWH) Apparent Power Energy (MVAH) Reactive Power Energy (MVARH) 	Data Output USB/RS232 * Computer interface	<ul style="list-style-type: none"> RS232 computer serial 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. 						
Voltage ranges	10 ACV to 600 ACV, auto range.	Power Supply	<ul style="list-style-type: none"> * DC 1.5V, AA (UM-3) Battery X 8 PCs (Alkaline or heavy duty battery). * AC to DC 9V power adapter. 						
Safety	IEC1010 CAT III 600 V.	Weight	<ul style="list-style-type: none"> * Meter: 1049g (includes batteries) * Clamp. CP-1201 : 522g 						
Current clamp	<ul style="list-style-type: none"> Three 1200 A current clamps, CP-1201-A1, CP-1201-A2, CP-1201-A3 are included as the standard accessories * 0.2 ACA to 1200 ACA, * CP-1201 can select 3 ranges : 1200 A, 200 A, 20 A. Other optional Current clamps : * Current clamps except used the CP-1201, user also can use their own Current Clamps (Max. range 3000 A), if its output voltage is AC 200 mV, 300 mV, 500 mV, 1 V, 2 V or 3 V. * Above 6 kinds Current Clamp modes (output voltage and the Max. ampere range) can be adjusted on the front panel with default. 	Dimension	<ul style="list-style-type: none"> Meter : 225 X 125 X 64 mm (8.86 X 4.92 X 2.52 inch) Clamp, CP-1201 : 210 X 64 X 33 mm (8.3 X 2.5 X 1.3 inch) * Clamp Jaw : 50 mm (2.0 inch)- outside * Clamp max. conductor size : 86 mm Dia. 						
Current clamp input frequency response	40 Hz to 1 KHz.	Accessories Included	<ul style="list-style-type: none"> * Instruction manual..... 1 PC * Test Leads (TL88-4AT)..... 1 Set (4 PCs) * Alligator clips (TL88-4AC).....1 Set (4 PCs) * 1200 A Clamp Probe (CP-1201-A1).....1 PC * 1200 A Clamp Probe (CP-1201-A2).....1 PC * 1200 A Clamp Probe (CP-1201-A3).....1 PC * AC to DC 9V adapter.....1 PC * SD card (2 G)..... 1 PC * Soft Carrying bag, CA-92.....1 PC 						
Over load protection	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">ACV</td> <td>720 ACV rms</td> </tr> <tr> <td>ACA</td> <td>1300 ACA with clamp probe</td> </tr> <tr> <td></td> <td>* CP-1201 (A1, A2, A3)</td> </tr> </table>	ACV	720 ACV rms	ACA	1300 ACA with clamp probe		* CP-1201 (A1, A2, A3)	Optional Accessories	<ul style="list-style-type: none"> * USB Cable , USB-01 * RS232 cable, UPCB-02 * SD memory card (2 GB) * 1200 A Clamp Probe, CP-1201-A1/A2/A3 * 2000 A Clamp Probe, CP-2000-A1/A2/A3 * 3000 A Flexible Clamp Probe, CP-2000-A1/A2/A3 * 200 A Clamp Probe, CP-200-A1/A2/A3 * Data Acquisition software, SW-U811-WIN
ACV	720 ACV rms								
ACA	1300 ACA with clamp probe								
	* CP-1201 (A1, A2, A3)								
Data Hold	Freeze the display reading.								
Data Record	<ul style="list-style-type: none"> SD memory card record. * SD memory card capacity : 1 GB to 16 GB. 								

ELECTRICAL SPECIFICATIONS		
Measurement	Range	Basic Accuracy
ACV (True rms)	600.0 V	± (0.5% rdg + 0.5V)
Active Power (MW)	9.999 MW	± (1.0% rdg + 0.008 MW)
Apparent Power (MVA)	9.999 MVA	± (1.0% rdg + 0.008 MVA)
Reactive Power (MVAR)	9.999 MVAR	± (1.0% rdg + 0.008 MVAR)
Power Factor	0.00 to 1.00	± 0.04
Frequency Range	45Hz to 65Hz	± 0.1 Hz
Phase	-180° to +180.0°	± 1°
Harmonics	1 to 50th	± 2% (1 to 20th) ± 6% (21 to 50th)
Crest Factor	1.00 to 99.99	± (5% + 30d)
Current Clamp input	200 mV, 300 mV, 500 mV, 1 V, 2 V, 3 V @ select by user	± (0.5%rdg + 5d)
Peak AC Voltage accuracy		± (5% rdg + 30d)
Peak AC Current accuracy		± (5%rdg+30d)
Active Power Energy (MWH)	9.999 MWH	± (2.0% rdg + 0.008 MWH)
Apparent Power Energy (MVAH)	9.999 MVAH	± (2.0% rdg + 0.008 MVAH)
Reactive Power Energy (MVARH)	9.999 MVARH	± (2.0% rdg + 0.008 MVARH)

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0	TAIWAN : M 358970 M 359043	
	Germany : Nr. 20 2008 016 337.4	JAPAN : 3151214	U.S.A. : Pending

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

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