

# POWER ANALYZER

Model : DW-6090

ISO-9001, CE, IEC1010



## FEATURES

- \* Multi-functions : WATT, VA, Whr, PF ( Power factor ), ACV, ACA, DCV, DCA, Hz, ohm.
- \* True AC power( Watt ) & apparent power ( VA ) measurement.
- \* True rms display for ACV, ACA.
- \* Supper large LCD, display the Watt, Power factor, Voltage & Current value at the same time.
- \* Accept inductive clamp or CT input.
- \* Peak hold & data hold function.
- \* Hi, low alarm setting, RS-232/



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***The Art of Measurement***

# POWER ANALYZER, Model : DW-6090

FEATURES	
* Multi-functions : WATT, VA, Whr, Power factor ACV, ACA, DCV, DCA, Hz, ohm.	* Alarm Hi, low setting capability.
* True AC power measurement, not apparent power.	* RS-232 output interface.
* True rms display for ACV, ACA.	* Exclusive custom exclusive design LSI circuit, provides high accuracy, reliability and durability.
* Supper large LCD, easy to read-out, display the Watt, Power factor, Voltage & Current value at the same time.	* Built-in over input indication.
* Current mode from direct input, inductive clamp probe or CT.	* Power supply by DC battery or AC to DC adapter.
* Auto range.	* Built-in low battery indicator .
* Built-in peak hold & data hold function.	* Durable bench type housing plastic case with carrying handle.

GENERAL SPECIFICATIONS			
Display	* 93 mm x 52 mm large LCD ( Liquid Crystal Display) display panel..	Power Consumption	Approx. DC 30 mA
	* Multi-display unit, show Volt, Ampere, Watt, Power factor at same time.	Dimension	280 x 210 x 90 mm ( 11.0 x 8.3 x 3.5 inch ).
		Weight	Approx. 1,100 g ( 2.4 LB ).
Measurement	WATT, VA, Whr,, Power factor ACV, ACA, DCV, DCA, Hz, ohm.	Standard Accessories	Test lead(red & black).....1 pair. Instruction Manual.....1 PC.
Zero Adjustment	Watt : External adjustment.	Optional Accessories	USB cable, USB-01
	DCV, ACV, DCA, ACA: Automatic adjustment.		RS232 cable, UPCEB-02
Polarity	Automatic switching, "-" indicates reverse polarity.		Data Acquisition software, SW-U801-WIN
Current input mode	Direct input, inductive clamp probe or CT.		DC 9V POWER ADAPTER Model : AP-9VA
Over input Indication	Indication of " - - - - or " - - - - .		* Input voltage : 100 to 240 ACV, 50/60 Hz.
Data Output	RS232 serial interface.		* Output voltage : Regulation DC 9V/1 Amp. rating.
Sampling Time	W, A, V - 1.5 sec. DCV, DCA - 1 sec.		PLUG CONVERTER Model : AP-GTU
Operating Temp.	0to 50°C ( 32 to 122 °F).		* Convert the input plug of AP-9VA. from the Germany type to USA type.
Operating Humidity	Less than 80 % R.H..		PLUG CONVERTER Model : AP-GTE
Power Supply	DC 9V, 1.5 V AA (UM-3) battery x 6 PCs. AC power : AC to DC 9V adapter, optional.		* Convert the input plug of AP-9VA. from the Germany type to UK ( England ) type.

ELECTRICAL SPECIFICATIONS (23± 5 °C)				
<b>Watt (AC, true power), current mode from direct input.</b>				
Range	Resolution	Accuracy	Remark	
1 Watt to 9,999 Watt	1 Watt	± ( 1.5 % + 1 d )	* Auto range.	
10 K Watt to 99.99 K Watt	10 Watt		* Frequency Characteristic: 45 Hz-65Hz.	
			* Accuracy is specified under input signal frequency of 50/60 Hz.	
<b>Watt (AC, true power), current from inductive probe or CT.</b>				
Range	Resolution	Accuracy	Remark	
1 Watt to 9,999 Watt	1 Watt	± ( 1.5 % + 1 d )	* Auto range.	
10 KW to 99.99 KW	10 Watt		* Frequency Characteristic: 45 Hz-65Hz.	
100.0 KW to 999.9 KW	0.1 kW		* Accuracy is specified under input signal frequency of 50/60 Hz.	
1000 KW to 1999 KW	1 kW			
<b>VA (AC), current mode from direct input</b>				
Range	Resolution	Accuracy	Remark	
0.01 VA to 99.99 VA	0.01 VA	± ( 1.5 % + 1 d )	* Auto range.	
100.0 VA to 999.9 VA	0.1 VA		* Frequency Characteristic: 45 Hz-65Hz.	
1000 VA to 9999 VA	1 VA		* Accuracy is specified under input signal frequency of 50/60 Hz.	
10.00 K VA to 39.99 kVA	10 VA			
<b>POWER FACTOR, current mode from direct input only</b>				
Range	Resolution	Accuracy		
0.01 to 1.00	0.01	± ( 1.5 % + 2 d )		
<b>AC VOLTAGE , DC VOLTAGE</b>				
Range	Resolution	Accuracy	Input Impedance	Overload circuit Protection
0.1 V to 299.9 V	0.1 V	± ( 1 % + 1 d )	10 Mega ohm	AC 700 V
300 V to 600 V	1 V			DC 1000 V
Remark : Auto range.				
<b>AC CURRENT, DC CURRENT, current mode from direct input</b>				
Range	Resolution	Accuracy	Voltage drop ( in case of full scale )	
0.01 A to 20.00 A	10 mA	± ( 1 % + 1 d )	2 V AC	
* ACA, ACV frequency characteristic : 45 Hz to 65 Hz, specification be tested on sine wave of 50/60 Hz.				
* Converter response : Average responding, calibrated to display RMS value of sine wave.				
<b>AC CURRENT DC CURRENT, current mode from inductive probe</b>				
Range	Resolution	Accuracy	Remark	
1 A to 1000 A	1 A	± ( 1 % + 1 d )	ACA : 1 AC mV per 1 AC ampere.	
			DCA : 1 DC mV per 1 DC ampere.	
<b>AC CURRENT, current mode from CT ( current transformer )</b>				
Range	Resolution	Accuracy	Remark	
CT 100/5A, 0.1 - 100.0 A	0.1 A	Depend the CT its own accuracy.		
CT 1000/5A, 1 - 1000 A	1 A			
<b>Watt Hour, current from direct input</b>				
Range	Resolution	Accuracy	Remark	
0.001 Whr to 9.999 Whr	0.001 Whr	± ( 1 % + 1 d )	* Auto range.	
10.00 Whr to 99.99 Whr	0.01 Whr		* Frequency Characteristic: 45 Hz-65Hz.	
100.0 Whr to 999.9 Whr	0.1 Whr		* Accuracy is specified under input signal frequency of 50/60 Hz.	
1000 Whr to 9999 Whr	1 Whr			
10 K Whr to 99.99 K Whr	10 Whr			
100 K Whr to 999.9 K Whr	100 Whr			
1000 K Whr to 9999 K Whr	1 K Whr			
<b>OHMS</b>				
Range	Resolution	Accuracy	Overload Circuit Protection	
1 ohm to 9,999 ohm	1 ohm	± ( 1 % + 1 d )	AC/DC 400V	
10 K ohm to 19.99 K ohm	10 ohm			
<b>Hz</b>				
Range	Resolution	Accuracy	Overload Circuit Protection	
10.0 Hz to 99.9 Hz.	0.1 Hz	± ( 1 % + 1 d )		
100 Hz to 999 Hz.	1 Hz			

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