

# 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/



***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.. * Multi-display unit, show Volt, Ampere, Watt, Power factor at same time.	Data Output	RS232 serial interface.
Measurement	WATT, VA, Whr., Power factor ACV, ACA, DCV, DCA, Hz, ohm.	Sampling Time	W, A, V - 1.5 sec. DCV, DCA - 1 sec.
Zero Adjustment	Watt : External adjustment. DCV, ACV, DCA, ACA: Automatic adjustment.	Operating Temp.	0to 50°C ( 32 to 122 °F).
Polarity	Automatic switching, "-" indicates reverse polarity.	Operating Humidity	Less than 80 % R.H..
Current input mode	Direct input, inductive clamp probe or CT.	Power Supply	DC 9V, 1.5 V AA (UM-3) battery x 6 PCs.
Over input Indication	Indication of " - - - - " or " - - - - .	Power Consumption	Approx. DC 30 mA
		Dimension	280 x 210 x 90 mm ( 11.0 x 8.3 x 3.5 inch ).
		Weight	Approx. 1,100 g ( 2.4 LB ).
		Standard Accessories	Test lead(red & black).....1 pair. Instruction Manual.....1 PC.

## 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		