POWER ANALYZER

Model : DW-6090

ISO-9001, CE, IEC1010



- * 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 C1 input.
- * Peak hold & data hold function.
- * Hi, low alarm setting, RS-232/USB





The Art of Measurement

POWER ANALYZER

Model: DW-6090

FEATURES

*	Multi-functions: WATT, VA, Whr, PF (Power factor),
L	ACV, ACA, DCV, DCA, Hz, ohm.
*	True AC power(Watt) & apparent power (VA)
	measurement.
*	True rms display for ACV, ACA.
*	Supper large LCD, easy to read-out, display the Watt,
L	Power factor, Voltage & Current value at the same time.

- Accept different kinds current input signal as direct input. inductive clamp probe or CT (current transformer)
- Auto range.
- Built-in peak hold & data hold function.
- Watt & VA measurement with Hi, low alarm setting capability
- RS-232 output interface.
- Exclusive custom exclusive design LSI circuit, provides high accuracy, reliability and durability.
- Built-in over input indication.
- Power supply by batteries or AC to DC adapter.
- Built-in low battery indicator
- Durable bench type housing plastic case with carrying handle

GENERAL SPECIFICATIONS

Display	* 93 mm x 52 mm large LCD (Liquid
	Crystal Display) display.
	* Multi-display unit, show Volt, Ampere,
	Watt, Power factor or Hz at same time.
Measurement	WATT, VA, Whr,, Power factor, ACV, ACA,
	DCV, DCA, Hz, ohm.
Zero Adjustment	Watt:
	Watt : External adjustment by push button.
	DCV, ACV, DCA, ACA :
	Automatic adjustment.
Polarity	Automatic switching, "-" indicates reverse
	polarity.
Current input	Direct input, inductive clamp probe or CT.
mode	
Over input	Indication of " or "
Indication	
Data Output	RS232 serial interface.
Sampling Time	W, VA, ACA, ACV, PF, Hz:
	Approx. 1.5 Sec.
	DCV, DCA, OHM:
	Approx. 1 Sec.
Operating Temp.	0 to 50 ℃ (32 to 122 °F).
Operating	Less than 80 % R.H
Humidity	
Power Supply	Battery power :
	DC 9V, 1.5 V AA (UM-3) battery x 6 PCs.
	AC power :
	AC to DC 9V adapter (500 mA), optional.
Power	Battery power :
Consumption	Approx. DC 30 mA
Dimension	280 x 210 x 90 mm (11.0 x 8.3 x 3.5 inch).
Weight	Approx. 1.6 Kg (3.52 LB).
Standard	Test lead (red & black) 1 pair.
Accessories	Instruction Manual 1 PC.

ELECTRICAL SPECIFICATIONS (23±5 °C)

OHMS		
Range	Resolution	Accuracy
9,999 ohm	1 ohm	± (1% + 1d)
19.99 K ohm	10 ohm	

- * Auto range
- * Overload protection " Max. AC/DC 300 V.

Watt (AC, true power),

current	mode	from	direct	input

Range	Resolution	Accuracy
0.1 to 99.9 Wa	t 0.1 Watt	± (1.5% + 5 d)
100 to 6,000 W	att 1 Watt	

- * Accuracy are specified under the following conditions :
- a) AC input current is 0.4 ACA & 10 ACA.
- b) AC input voltage is within 110 V \pm 15 % and
- c) ACA, ACV input signal is sine wave, 50/60 Hz.
- d) Power factor 0.8
- ACA, ACV frequency response is from 40 to 400 Hz.
- Max. volt & current input signal value :
- Volt input: Max. AC 600V, Current input: Max. AC 10 A

Watt (AC, true power),

current input cooperate with inductive probe or CT

Range	Resolution
9,999 Watt	1 Watt
99.99 KW	0.01 KW
999.9 KW	0.1 kW

- * Accuracy will be same as the abve " Direct Current Input Mode " but plus the accuray value of Current Transformer (CT) or the accouracy value of Inductive Current Probe.
- Input current should obey : Inductive Probe - 20 ACA. CT 100/5 A - 8 ACA CT 1000/5 A - 80 ACA

VA (AC, Apparent Power)

current mode from direct input

Range	Resolution	Accuracy
99.99 VA	0.01 VA	± (2 % + 2d)
999.9 VA	0.1 VA	
9,999 VA	1 VA	

- * Accuracy are specified under the following conditions :
- a) AC input current is 0.4 ACA & 10 ACA.
- b) AC input voltage is within 110 V 15 % and 220V 15%.
- c) ACA, ACV input signal is sine wave, 50/60 Hz.
- * ACA, ACV frequency response is from 40 to 400 Hz.

POWER FACTOR current mode from direct input only

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Range	Resolution	Accuracy
0.01 to 1.00	0.01	± (1.5% + 2d)

- * Accuracy are specified under the following
- a) AC input current is 0.4 ACA & 10 ACA.
- b) AC input voltage is within 110 V 15 % and
- c) ACA, ACV input signal is sine wave, 50/60 Hz.
- Max. volt & current input value:
- Volt input: AC 600V, Current input: AC 10A

Resolution ± (1% + 1d) 10.0 Hz to 99.9 Hz 0.1 Hz 100 Hz to 999 Hz 1 Hz

- * Auto range.
- * Frequency signal input voltage level should
- Appearance and specifications listed in this brochure are subject to change without notice.

Range	Resolution	Accuracy
0.1 V to 299.9 V	0.1 V	DCV:
		± (1% + 1d)
300 V to 600 V	1 V	ACV (10 V):
		± (1% + 7d)
		ACV (11 V to 100 V):
		± (1% + 5d)
		ACV (Others):
		± (1% + 1d)

- Auto range.
- Max. input voltage: AC 600 V, DC 600 V.
- ACV accuracy is test under input signal is sine wave, 50/60 Hz.
- ACV frequency response is from 40 to 400 Hz.
- * ACV is true rms.

AC CURRENT (true rms), DC CURRENT

current mode from direct input

Range	Resolution	Accuracy	
0.01 A to 10.00 A	10 mA	ACA :	± 1%+3d)
		DCA :	± 1%+1d)

- Max. input current: AC 10 A, DC 10 A.
- ACA accuracy is test under input signal is sine wave, 50/60 Hz
- ACA frequency response is from 40 to 400 Hz.
- * ACA is true rms.

AC CURRENT (true rms), DC CURRENT

current mode from inductive probe Range Resolution 1000 A 1 A

- Accuracy: Meter voltage range accuracy plus Inductive Probe's accuracy.
- ACA is true rms.

AC CURRENT

urrent mode from CT (current transformer)

cuir cint incuc in cin ci	(carron transference)
Range	Resolution
CT 100/5A, 0.1 - 200.0 A	0.1 A
CT 1000/5A, 1 - 2000 A	1 A

- Accuracy: Meter current range accuracy plus CT (current transformer) accuracy.
- * ACA is true rms.

Watt Hour

current from direct input 0.001 Whr to 9.999 Whr 0.001 Whr 10 00 Whr to 99 99 Whr 100.0 Whr to 999.9 Whr 0.1 Whr 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

- When Watt Hour value over 9999 K Whr, the Display value will reset to 0000 K Whr, then count
- Accuracy & other specification requirement same as " Watt " range exactly