Watt, Leakage current , ACV, DCV, DCV, ohms, Beeper

WATT/Leakage METER

Model : DW-6160 *ISO-9001, CE, IEC1010*

Lutron

LUTRON ELECTRONIC

The Art of Measurement

WATT/Leakage METER
Model : DW-6160

FEATURES

* Professional WATT meter with Leakage current tester, digital display , battery operated.
* LSI - circuit provides high reliability and durability.
* Measurement : WATT (AC) : 2500 W x 0.1 W/1 W. Leakage current (AC mA) : 20.00 mA x 0.01 mA. ACV : 600.0 V x 0.01 V/0.1 V. ACA : 10.00 A x 0.001 A/0.01 A. DCV : 600.0 V x 0.01 V/0.1 V. ohm : 2 K ohm x 0.001 K ohm , 20 K ohm x 0.01 K ohm
* Low Watt measurement, 1.0 to 999.9 Watt x 0.1 Watt.
* True Power and wide range , 0 to 2500 Watt .
* True RMS ACV, ACA measurement.
* Leakage current (AC mA) detection.
* Auto range.
* Continuity beeper.
* Large LCD , dual value display with backlight.
* Memory Record (Max., Min.).
* Data Hold.
* RS232/USB computer interface.
* Power : DC 1.5V (UM-3, AA) x 8 PCs or DC 9V adapter in.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD display, max. reading 5999. Digit size : 74x47 mm. Dual value display with backlight	
Measurement	ACV	0.1 to 600.0 V
	DCV	0.1 to 600.0 V
	Ω	0.001 kΩ to 20.00 kΩ
	WATT	0.1 W to 2500 W
	Leakage current	0.01 m A to 20.00 m A
	ACA	0.01 A to 10.00 A
Over input	---- " mark indication .	
Polarity	Automatic switching , "-" indicates reverse polarity.	
Zero Adjustment	Automatic adjustment.	
Sampling Time	Approx. 1.5 second.	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Data Output	RS 232/USB PC computer interface. ** Connect the optional RS232 cable UPCB-02 will get the RS232 plug.* ** Connect the optional USB cable USB-01 will get the USB plug.*	
Operating Temperature	0 to 50 ℃.	
Operating Humidity	Less than 80% R.H.	
Power Supply	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 8 PCs, or equivalent.	
	* DC 9V adapter input. (AC/DC power adapter is optional).	
Power Consumption	Approx. DC 33 mA.	
Weight	822 g/1.82 LB.	
Dimension	224 x 125 x 65 mm (8.8 x 4.8 x 2.5 inch)	
Accessories Included	* Instruction manual..... 1 PC * Test lead (Red and Black)..... 1 pair	
Optional Accessories	* AC to DC 9V adapter. * USB cable, USB-01. * RS232 cable, UPCB-02.	
Optional Accessories	* Data Acquisition software, SW-U801-WIN, SW-E802. * Hard carrying case, CA-08	

ELECTRICAL SPECIFICATIONS (23± 5 ℃)

AC / DC VOLTAGE

Range	*Resolution*	*Accuracy*
0.01 V to 99.99 V	0.01 V	ACV : ± (1 % + 5d)
		DCV : ± (0.8 %+5d)
100.0 V to 600 V	0.1 V	ACV : ± (1 %+5d)
		DCV : ± (0.8 %+5d)

* Measuring Signals come from the front panel terminals.
* 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 measurement..

OHMS (Resistance)

Range	*Resolution*	*Accuracy*
2 KΩ	1 Ω	± (1 % + 1d)
20 KΩ	10 Ω	± (1 % + 1d)

* Auto range.
* Continuity beeper : < 4 Ω .
* Overload Rating : AC / DC 600V at 20 second Max

WATT (true power)

Range	*Resolution*	*Accuracy*
1000 W	0.1 W	± (1.5 % + 5d)
1001 to 2500 W	1 W	± (1.5 % + 5d)

* 0.1 W resolution : Input voltage < 200 AVC or Input current < 2 ACA.
  Beyond above input, the resolution will still be 1 W.
* Measuring Signals come from the top power plug input..
* Accuracy is test under input signal is sine wave, 50/60 Hz
* ACV, ACA frequency response is from 40 to 400 Hz.
* Max. input voltage : AC voltage 250 V, AC current : 10 A.

Leakage (AC mA)

Range	*Resolution*	*Accuracy*
0 to 20 mA	0.01 mA	± (1 % + 5d)

* The leakage current that sense between the " Hot line " and the " Earth " of the measuring installation that connect to the output " Power plug "

V, A (true rms)

Range	*Resolution*	*Accuracy*
ACV 250 V	0.01 V/0.1 V	± (1 % + 5d)
ACA 10 A	0.001 A/0.01A	± (1 % + 3d)

* ACV, 0.01 V resolution is valid from 0.01 V to 99.99 V.
  ACV, 0.1 V resolution is valid from > 100.0 V.
* ACA, 0.001 A resolution is valid from 0.001 A to 1.999 A.
  ACA, 0.01 A resolution is valid from > 2 A.
* Measuring signals come from the top power plug input (power source).
* Auto range.
* ACV, ACA accuracy is test under input signal is sine wave, 50/60 Hz
* ACV, ACA frequency response is from 40 to 400 Hz.
* ACV, ACA is true rms measurement..
* Max. input voltage : AC voltage 250 V, AC current : 10 A.