

hybrid power, Patent

# GREEN POWER 4 in 1 METER

Model : LM-8020G

ISO-9001, CE, IEC1010



No battery  
Generator power



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*The Art of Measurement*

# GREEN POWER 4 in 1 METER

Model : LM-8020G

## FEATURES

* Hybrid power, power supply from green power ( handy generator ) or battery. If power source come from " Green power ", battery is no need. Wind-up the generator 20 seconds will offer several minutes energy typically.
* 4 in 1 professional measuring instrument: Anemometer, Hygrometer, Thermometer, and Light meter.
* Anemometer use low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
* Anemometer use the separate probe, convenient for measurement.
* Light meter use exclusive photo diode and color correction filter light sensor, spectrum meets C.I.E. photopic.
* High precision humidity sensor with fast response time.
* Standard type K (NiCr-NiAl) thermocouple input jack suitable for all kinds of type K probe.
* Concise and compact buttons arrangement, easy operation.
* Memorize the maximum and minimum value with recall.
* °C/°F detection by pressing button on the front panel.
* Lux/Feet-candle selection by pressing button on the front panel.
* Air velocity measuring units selection by pressing button on the front panel for five kinds of units.
* Multi channel display for relative humidity and temperature measured values or air velocity and temperature measured values at the same time.
* Zero button design makes light meter calibration.
* Hold function to freeze the current reading value.
* Microprocessor circuit assures high accuracy and reliable performance.
* Large LCD, dual function display.
* Auto power shut off to battery life or manual power off.
* Using the durable, long-lasting components and a strong lightweight ABS-plastic housing case.

Power Consumption	Battery power : Approx. DC 10 mA.
Weight	432 g/0.95 LB ( w/o battery ).
Dimension	<i>Meter :</i> 170 x 70 x 39 mm ( 6.7 x 2.8 x 1.1.5 inch). <i>Anemometer probe head :</i> Round, 72 mm Dia.
Standard Accessories	Instruction manual..... 1 PC Hard carrying case..... 1 PC
Optional Accessories	Type temperature probe : TP-01 : Naked-bead, -40 to 250 °C TP-02A : Penetration, -50 to 900 °C TP-03 : Penetration, -50 to 1200 °C TP-04 : Surface, -50 to 400 °C

## ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

Measurement	Range	Resolution	
Air velocity	m/s	0.4 - 25.0 m/s	0.1 m/s
	km/h	1.4 - 90.0 km/h	0.1 km/h
	MPH	0.9 - 55.9 mile/h	0.1 MPH
	knots	0.8 - 48.6 knots	0.1 knots
	ft/min	80 - 4930 ft/min	1 ft/min
	Temperature ( Semiconductor )	32 to 122 °F 0 to 50 °C	0.1 °F 0.1 °C

Measurement	Range	Resolution	
Humidity	% RH	10 to 95 %RH	0.1 %RH
	Temperature ( Semiconductor )	32 to 122 °F 0 to 50 °C	0.1 °F 0.1 °C
Light	Lux	0 to 2,200 Lux 1,800 to 20,000 Lux	1 Lux 10 Lux
	* auto range Ft-cd	0 to 204.0 Fc 170 to 1,860 Fc	0.1 Ft-cd 1 Ft-cd
Temperature ( Type K )		-148 to 2372 °F -100 to 1300 °C	0.1 °F 0.1 °C

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	40 mm x 32 mm LCD (Liquid crystal display).
Measurement	Anemometer, Humidity, Temperature, Light
Data Hold	Freeze the display reading.
Memory Recall	Maximum and Minimum reading values can be saved and retrieved by record function.
Power off	Auto shut off saves battery life or manual off by push button.
Overload indication	" - - - " symbol on the display.
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Max. 80% RH.
Sampling Time	Approx. 1 second.
Power Supply	<i>Green power :</i>
	* <i>Hybrid power</i> Power from the handy generator, battery is no need. <i>Battery power :</i> DC 9V battery, 006P, MN1604 ( PP3 ) or equivalent. * <i>Alkaline or heavy duty type.</i>

Measurement	Range	Accuracy
Air velocity	0.4 - 25.0 m/s	≤ 20 m/s : ± 3% F.S. > 20 m/s : ± 4% F.S.
	1.4 - 90.0 km/h	
	0.9 - 55.9 mile/h	
	0.8 - 48.6 knots	
	80 - 4930 ft/min	
Humidity	32 to 122 °F	± 2.5 °F
	0 to 50 °C	± 1.2 °C
	10 to 95 %RH	< 70% RH : ± 4 %RH ≥ 70% RH : : ± ( 4%rdg + 1.2 %RH )
Light	0 to 20,000 Lux	± 5% rdg ± 8 dgt
	0 to 1,860 Fc	
Temperature ( Type K )	-148 to 2372 °F	± (1% rdg + 2°F)
	-100 to 1300 °C	± (1% rdg + 1°C)

*Remark :*  
 ft/min : feet per minute      MPH : miles per hour  
 m/s : meters per second      knots : nautical miles per hour  
 km/h : kilometers per hour      Ft-cd : feet candle

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