

hybrid power, + Type K thermometer, Patent

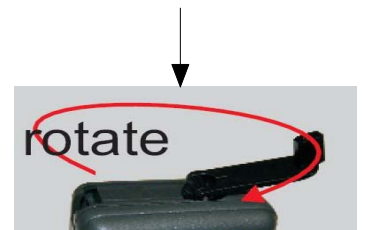
GREEN POWER ANEMOMETER

Model : AM-4100G

ISO-9001, CE, IEC1010



No battery,
Generator power



Lutron

LUTRON ELECTRONIC

The Art of Measurement

Green power, Hybrid power ANEMOMETER + type K Temp.

Model : AM-4100G

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.
* 2 in 1 professional measuring instrument : Anemometer, and Type K Thermometer.
* 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.
* 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.
* Air velocity measuring units selection by pressing button on the front panel for five kinds of units.
* Two channel display for measuring air velocity and temperature value at the same time.
* Hold function to freeze the current reading value.
* Microprocessor circuit assures high accuracy and reliable performance.
* 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.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	40 mm x 32 mm LCD (Liquid crystal display).
Measurement	<i>Anemometer :</i> m/s (meters per second) km/h (kilometers per hour) ft/min (feet/per minute) knots (nautical miles per hour) mile/h (miles per hour) Temperature - °C, °F <i>Type K thermometer</i> °C, °F
Sensor Structure	<i>Anemometer :</i> * Air velocity : Conventional twisted van arm and low friction ball bearing design. * Temperature : Precision thermistor. <i>Type K thermometer</i> Type K thermocouple.
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.
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.
Power Supply	Green power : * <i>Hybrid power</i> Power from the handy generator, battery is no need. Battery power : DC 9V battery, 006P, MN1604 (PP3) or equivalent. * <i>Alkaline or heavy duty type.</i>
Power Consumption	Battery power : Approx. DC 10 mA.
Standard Accessories	Instruction manual..... 1 PC Hard carrying case..... 1 PC
Optional Accessories	Temperature probes.

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	32 to 122 °F	0.1 °F
	(Semiconductor)	0 to 50 °C	0.1 °C

Measurement	Range	Resolution
Thermometer (Type K)	-148 to 2372 °F	0.1 °F
	-100 to 1300 °C	0.1 °C

Measurement	Range	Accuracy
Air velocity	0.4 - 25.0 m/s	$\leq 20 \text{ m/s} : \pm 3\% \text{ F.S.}$ $> 20 \text{ m/s} : \pm 4\% \text{ F.S.}$
	1.4 - 90.0 km/h	
	0.9 - 55.9 mile/h	
	0.8 - 48.6 knots	
	80 - 4930 ft/min	$\pm 2.5 \text{ }^\circ\text{F}$ $\pm 1.2 \text{ }^\circ\text{C}$
	32 to 122 °F	
0 to 50 °C		
Thermometer (Type K)	-148 to 2372 °F	$\pm (1\% \text{ rdg} + 2^\circ\text{F})$
	-100 to 1300 °C	$\pm (1\% \text{ rdg} + 1^\circ\text{C})$

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*

PATENT	CHINA : ZL200620012764.3 JAPAN : 3130269	GERMANY : Nr.202006007329.9 U.S.A. : PENDING	TAIWAN : M299401
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* Appearance and specifications listed in this brochure are subject to change without notice.

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