

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

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Green power, Hybrid power ANEMOMETER + type K Temp.

Model : AM-4100G

FEATURES

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| * 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

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|------------------|---|
| 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. |

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| 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 | |
| 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

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| 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.