

+ Type K thermometer, separate probe

# ANEMOMETER

Model : AM-4100B

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

## heavy duty probe, + type K thermometer

# ANEMOMETER

Model : AM-4100B

### FEATURES

* 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 heavy duty probe, convenient for the 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	<p><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</p> <p><i>Type K thermometer</i>                      °C, °F</p>
Sensor Structure	<p><i>Anemometer :</i>                      * Air velocity :                      Conventional twisted van arm and low friction ball bearing design.                      * Temperature : Precision thermistor.</p> <p><i>Type K thermometer :</i>                      * Type K thermocouple.</p>
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	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	Type K temperature probes : TP-01, TP-02A, TP-03, TP-04, TP-05

### ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

Measurement	Range	Resolution	
Air velocity	m/s	0.3 - 25.0 m/s	0.1 m/s
	km/h	1.1 - 90.0 km/h	0.1 km/h
	MPH	0.7 - 55.9 mile/h	0.1 MPH
	knots	0.6 - 48.6 knots	0.1 knots
	ft/min	60 - 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
Thermometer ( Type K )	-148 to 2372 °F	0.1 °F
	-100 to 1300 °C	0.1 °C

Measurement	Range	Accuracy
Air velocity	0.3 - 25.0 m/s	± (2 % + 0.2 m/s)
	1.1 - 90.0 km/h	± (2 % + 0.8 km/h)
	0.7 - 55.9 mile/h	± (2 % + 0.5 MPH )
	0.6 - 48.6 knots	± (2 % + 0.4 knots)
	60 - 4930 ft/min	± (2 % + 40 ft/min)
	32 to 122 °F 0 to 50 °C	± 2.5 °F ± 1.2 °C
Thermometer ( 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.

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