

Air velocity and air Temp. measurement, economical type

ANEMOMETER

Model : AM-4210E

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

+type K/J TEMP.

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FEATURES

* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Dual function display, show air velocity value and the Temp. value at the same time.
* Low-friction ball vane wheels is accurate in both high and low velocities.
* The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.
* Five air velocity measurement units : m/s, km/h, ft/min, knots, mile/h.
* Anemometer show the display unit with default.
* 2 in 1, Anemometer + Thermometer (type K/J).
* Thermocouple Thermometer can accept type K or type J Temp. probe with default.
* Thermometer can default the display unit to °C or °F with default.
* Meter can default auto power off or manual power off.
* 0.1 degree resolution for temperature measurement.
* Microcomputer circuit provides intelligent function and high accuracy.
* Records Maximum and Minimum readings with recall.
* Data hold function for freezing the desired value.
* Few panel buttons, easy operation.
* Built-in low battery indicator.

Sampling Time of display	Approx. 1 second.	
Power off	Auto shut off to save battery life or manual off by push button.	
Operating Temperature	0 to 50 °C .	
Operating Humidity	Less than 80% R.H.	
Power Supply	006P DC 9V battery (Alkaline or Heavy duty type).	
Power Current	<i>Anemometer :</i> Approx. DC 10.5 mA. <i>Thermocouple Thermometer :</i> Approx. DC 6.8 mA.	
Weight	322 g/0.71 LB. * Include light probe and battery.	
Dimension	Meter	135 x 60 x 33 mm. (5.3 x 2.4 x 1.3 inch).
	Probe Sensor Head	Round, 72 mm Dia.
Accessories Included	Instruction manual..... 1 PC Anemometer probe..... 1 PC	
Optional Accessories	* Type K thermocouple probe. TP-01, TP-02A, TP-03, TP-04, TP-05 * Carrying case, CA-05A, CA-06.	

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 44 mm x 29 mm dual function LCD display.
Function	* Anemometer * Thermocouple Thermometer (Type K/J).
Anemometer	<i>Measurement :</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>Sensor :</i> Air velocity sensor : Conventional twisted vane arms and low-friction ball-bearing design. Temperature sensor : Precision thermistor.
Thermocouple Thermometer	Thermocouple : Type K, Type J. Unit : °C, °F Resolution : 0.1 degree. Temperature Compensation : Automatic temp. compensation for the cold junction both type K/J thermometer Linear Compensation ; Linear Compensation for the full range.
Thermometer Input Socket	Standard 2 pin thermocouple socket.
Over Indication	Show " - - - - - ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Anemometer

A. Air velocity

Measurement	Range	Resolution	Accuracy
m/s	0.4 - 25.0 m/s	0.1 m/s	± (2%+0.2 m/s)
km/h	1.4 - 90.0 km/h	0.1 km/h	± (2%+0.8 km/h)
mile/h	0.9 - 55.9 mph	0.1 mph	± (2%+0.4 mile/h)
knots	0.8 - 48.6 knots	0.1 knots	± (2%+0.4 knots)
ft/min	80 - 4930 ft/min	1 ft/min	± (2%+40 ft/min)

m/s - meters per second km/h - kilometers per hour
ft/min - feet/per minute
mph - miles per hour knots - nautical miles per hour
(international knot)

B. Temperature

Range	0 °C to 50 °C, 32 °F to 122 °F.
Resolution	0.1 degree
Accuracy	± 0.8 °C / 1.5 °F

Thermocouple Thermometer (type K/J)

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.8 °C)
		-50.1 to -199.9 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1.5 °F)
Type J	0.1 °C	-100.0 to 1100.0 °C	± (0.4 % + 0.8 °C)
		-50.1 to -199.9 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2012.0 °F	± (0.4 % + 1.5 °F)
		-58.1 to -327.8 °F	± (0.4 % + 1.8 °F)

* Accuracy value is specified for the meter only.
* Temp. probe (Type K, TP-01 TP-02A, TP-03, TP-04, TP-05) is the optional accessories.