

with temperature

CUP ANEMOMETER

Model : AM-4221

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

CUP ANEMOMETER

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FEATURES

* Cup vane anemometer, available for wind speed measurement, high reliability.
* Measurement range : 0.9 to 35.0 m/s
* Wind speed unit : m/s, km/h, ft/min, knot, mile/h.
* °C, °F temperature measurement.
* LCD display, IP 65 water resistance.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Records Maximum and Minimum readings with recall.
* Data hold and 100 point data logger with recall.
* Auto power off saves battery life.
* Operates from DC 1.5V (UM4/AAA) x 4 PCs batteries.
* Low-friction ball vane wheels is accurate in both high and low velocities.
* Durable, long-lasting components, enclosed in strong, compact ABS-plastic housing.

Sensor	Cup van probe with low friction ball bearing design.
Structure	bearing design.
Memory Recall	Maximum & Minimum value.
Sampling Time	Approx. 1 second.
Power off	Auto shut off saves battery life or manual off by push button.
Operating Temp. and Humidity	0 to 50 °C . Less than 80% R.H.
Power Supply	DC 1.5 V battery (UM4/AAA) x 4 PCs,
Power Current	Approx. DC 6.8 mA
Weight	181 g/ 0.4 LB. @ Battery is included.
Dimension	<i>Main instrument :</i> 190 x 40 x 32 mm (7.5" x 1.6" x 1.3") <i>Cup vane (3 cups with arm) :</i> 135 mm dia.
Accessories Included	Instruction manual..... 1 PC Carrying case..... 1 PC

GENERAL SPECIFICATIONS

Display	LCD size : 28 mm x 19 mm.
Wind speed Unit	m/S (meters per second) Km/h (kilometers per hour) Knot (nautical miles per hour) ft/min (feet per minute) mile/h (miles per hour)
Temp. unit	°C, °F
Circuit	Custom one-chip of microprocessor LSI circuit.
Temp. Sensor	Thermister
Data Logger	Max. can save 100 point data with recall. Manual, push the data logger button once will save data one time.
Data Hold	Freeze the display reading.

ELECTRICAL SPECIFICATIONS (23± 5 °C)

a. Wind speed

Measurement	Range	Resolution	Accuracy @ reading
m/S	0.9 - 35.0 m/S	0.1 m/S	± (2%+0.2 m/S)
Km/h	2.5 - 126.0 Km/h	0.1 Km/h	± (2%+0.8 Km/h)
Knot	1.4 - 68.0 Knots	0.1 Knots	± (2%+0.4 Knots)
Ft/min	144 - 6895 Ft/min	1 Ft/min	± (2%+40 Ft/min)
Mile/h	1.6 - 78.2 Mile/h	0.1 Mile/h	± (2%+0.4 Mile/h)

b. Temperature

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