

# ANEMOMETER

RS232

Model : AM-4203

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

*The Art of Measurement*

# DIGITAL ANEMOMETER

Model : AM-4203

## FEATURES

* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Super large LCD display, display the air low and the temperature reading at the same time.
* Dual function display.
* Heavy duty & compact case.
* Records Maximum and Minimum readings with recall facilities.
* Data hold.
* Auto power off saves battery life.
* Operates from 9V battery.
* RS 232 PC serial interface.
* Low-friction ball vane wheels is accurate in both high & low velocities.
* The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote sensor separately.
* Multi-functions air flow measurement: m/s, km/h, ft/min, knots. mile/h.
* Build in temperature measurement °C/°F.
* Thermocouple sensor for Temp. measurement, fast response time.
* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
* Wide applications: use this anemometer to check air conditioning & heating systems, measure air velocities, wind speeds, temperature...etc.

Sensor Structure	Air velocity sensor : Conventional twisted vane arms and low-friction ball-bearing design. Temperature sensor : Precision thermistor.
Data Output	RS 232 PC serial interface.
Over load indication	Indicated by "- - - -".
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Max. 80% RH.
Power Supply	Heavy duty type DC 9V battery, 006P, MN1604(PP3) or equivalent.
Power Current	Approx. DC 8.3 mA.
Weight	381 g/0.84 LB (included batteries & probe)
Size	Main instrument: 180 x 72 x 32 mm(7.1 x 2.8 x1.3 inch). Sensor Head: Round,72 mm Dia.
Accessories Included	Instruction manual.....1 PC. Sensor probe.....1 PC. carrying case.....1 PC.
Optional Accessories	* RS232 cable, UPCB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801-WIN.

Circuit	Custom one-chip microprocessor LSI circuit.
Display	Dual function display, 13 mm(0.5") super large LCD display with contrast adjustment for best viewing angle.
Measurement	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), Temp.- °C, °F., Data hold.
Memory Recall	Records Maximum and Minimum readings with recall.
Power off	Manual off by push button or Auto shut off after 10 minuite(Not activated during memory record function).

## ELECTRICAL SPECIFICATIONS ( 23 ± 5 °C )

### A. Air velocity

Measurement	Range	Resolution	Accuracy
m/s	0.4 - 25.0 m/s	0.1 m/s	± (2 % + 1 d)
km/h	1.4 - 90.0 km/h	0.1 km/h	
mile/h	0.9 - 55.9 mile/h	0.1 mile/h	
knots	0.8 - 48.6 knots	0.1 knots	
ft/min	80 - 4930 ft/min	1 ft/min	± (2 % + 20 ft/min.)

### Note:

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	(international knot)

### 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