

+TYPE K/J Temp.

Mini vane, Air flow (CMM, CFM)

ANEMOMETER

Model : AM-4232

ISO-9001, CE, IEC1010



FEATURES :

- * Mini vane with 35mm Dia., lowfriction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
- * Telescope probe, extension length 620 mm max.
- * Replacement anemometer van set.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 20.0 m/s, ft/min., km/h. knots, mile/h.
- * Air flow : CMM, CFM.
- * Low friction ball-bearing vane.
- * Separate probe, high reliability.
- * Type K Thermometer :
-100 to 1300 oC, oC/oF.
- * Type J Thermometer :
-100 to 1200 oC, oC/oF.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface

Lutron

LUTRON ELECTRONIC

The Art of Measurement

Air flow (CMM, CFM)

Mini vane ANEMOMETER

Model : AM-4232

FEATURES

* Mini vane with 35mm Dia., lowfriction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
* Telescope probe, extension length 620 mm max.
* Replacement anemometer van set.
* Air velocity : m/s, Ft/min, Km/h, Knot, Mile/h,
* Air flow (CFM, CMM) measurement.
* Air temperature (°C, °F)
* Air Temp. used thermistor sensor, fast response time.
* Fast humidity measuring response time.
* Type K, Type J thermocouple thermometer.
* LCD with green light backlight, easy reading.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Microcomputer circuit, high accuracy.
* Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.
* Separate probe, easy for operation.
* Applications : Environmental testing, HVAC, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case, Paint spray booths measurements

2-1 GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).
Measurement Unit	Air velocity: m/s (meters per second) Km/h (kilometers per hour) Ft/min (FPM, feet per minute) Knots (nautical miles per hour) Mile/h (mph, miles per hour) Air flow : CFM, CMM * CFM : cube feet per minute * CFM : cube meters per minute Type K/ Type J thermometer : °C, °F Air temperature: °C, °F
Advanced setting	* Auto power OFF management * Set beep Sound ON/OFF * Set thermometer type to Type K or Type J * Set temperature unit to °C or °F * Set air flow type (CFM/USA, CMM/EURO) * Set air flow area dimension
Temperature Compensation	Automatic temp. compensation for the type K/J thermometer.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 85% R.H.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional).
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 30 mA.

Power Current	When SD card save the data and LCD Backlight is OFF) : Approx. DC 50 mA.
Weight	347 g/ 0.76 LB. * Meter only
Dimension	Main instrument : 182 x 73 x 47.5 mm (7.1 x 2.9 x 1.9 inch) Anemometer sensor probe : Round, 35 mm Dia .
Accessories Included	* Instruction manual.....1 PC * Anemometer probe.....1 PC * Soft carrying case (CA-05B).....1 PC
Optional Accessories	* Type K thermocouple probes. * AC to DC 9V adapter. * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-E802

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Air velocity

Measurement	Range	Resolution	Accuracy
m/s	0.4 to 20.0 m/s	0.1 m/s	± (5% + a) reading or ± (1% + a) full scale
Km/h	1.4 to 72.0 km/h	0.1 Km/h	
Mile/h (MPH)	1.0 to 44.7 mph	0.1 mph	
Knot	0.8 to 38.8 knot	0.1 knot	
Ft/min	78-3940 ft/min	1 Ft/min	
@ a = 0.1 m/s, 0.3 km/h, 0.2 mile/h, 0.2 knot, 20 ft/min Note: m/s - meters per second km/h - kilometers per hour ft/min - feet per minute knot - nautical miles per hour mile/h - miles per hour (INTERNATIONAL KNOT)			

Air 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

Air flow

Measurement	Range	Resolution
CMM (m ³ /min.)	0 to 54,000 CMM	0.001 to 1 CMM
CFM (ft ³ /min.)	0 to 1,907,000 CFM	0.001 to 100 CFM

Measurement	Area
CMM (m ³ /min.)	0.001 to 30.000 m ²
CFM (ft ³ /min.)	0.01 to 322.93 ft ²

Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)
Type J	0.1 °C	-50.0 to 1200.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)

* Appearance and specifications listed in this brochure are subject to change without notice.

1704-AM4232