

**+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

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
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	or ± ( 1% + a ) full scale
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 <sup>3</sup> /min. )	0 to 54,000 CMM	0.001 to 1 CMM
CFM ( ft <sup>3</sup> /min. )	0 to 1,907,000 CFM	0.001 to 100 CFM

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

#### 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 )
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 )

### 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.

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

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