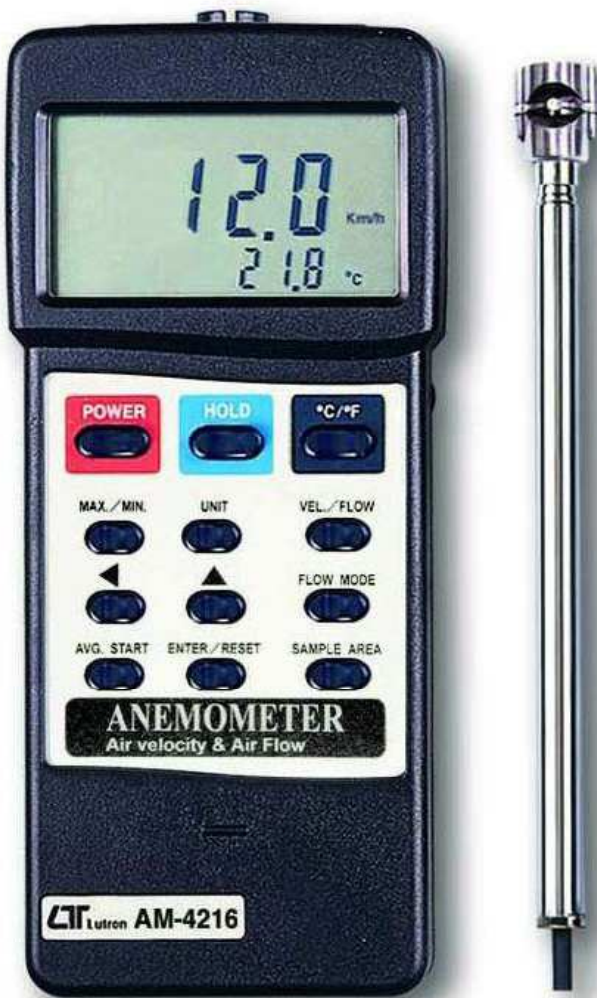


*Mini Vane + Air flow + Air Velocity , CMM, CFM*

# ANEMOMETER

**Model : AM-4216**

*ISO-9001, CE, IEC1010*



## FEATURES

- \* 13 mm dia heavy duty mini vane with telescope probe available for high temp. air velocity measurement.
- \* Air flow : CMM (m<sup>3</sup>/min.) and CFM (ft<sup>3</sup>/min.)
- \* Air velocity : m/s, ft/min, km/h, knots.
- \* Air temperature : °C, °F.
- \* 3 air flow mode : Instant, 2/3 Vmax, Average.
- \* Low-friction ball vane wheels is accurate in both high & low velocities.
- \* Large LCD with dual display.
- \* Record max. and min. reading value.
- \* Data hold.
- \* Microcomputer circuit.
- \* Thermistor sensor for temp. measurement, fast response time.
- \* RS 232 PC serial interface.
- \* Separate probe, easy for operation of the different measurement environment.



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

# mini vane, air flow + air velocity ANEMOMETER

Model : AM-4216

## FEATURES

|   |
|---|
| * 13 mm dia heavy duty mini vane with telescope probe available for high temp. air velocity measurement.                                      |
| * Air flow : CMM ( m <sup>3</sup> /min. ) and CFM ( ft <sup>3</sup> /min. )   |
| * Air velocity : m/s, ft/min, km/h, knots, mile/h.  |
| * Air temperature : °C, °F.   |
| * 3 air flow mode : Instant, 2/3 Vmax, Average.   |
| * Low-friction ball vane wheels is accurate in both high and low velocities.  |
| * Large LCD with dual display.  |
| * Record maximum and minimum reading with recall.   |
| * Microcomputer circuit provides special function & offer high accuracy.  |
| * Data hold.  |
| * Auto shut off saves battery life.   |
| * Thermistor sensor for temp. measurement, fast response time.  |
| * Build-in low battery indicator.   |
| * Operates from 006P DC 9V battery.   |
| * RS 232 PC serial interface.   |
| * Separate probe, easy for operation of the different measurement environment.  |
| * Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.                                       |
| * Wide applications: use this anemometer to check air conditioning & heating systems, measure air velocities, wind speeds, temperature...etc. |

## GENERAL SPECIFICATIONS

|                  |   |
|------------------|---|
| Circuit          | Exclusive one-chip of microcomputer LSI circuit.  |
| Display          | * 13 mm (0.5") Super large LCD display.<br>* Dual functions display.  |
| Measurement      | Air velocity:<br>m/s (meters per second)<br>km/h (kilometers per hour),<br>ft/min (feet per minute),<br>knots (nautical miles per hour),<br>mile/h (miles per hour),<br>Air flow:<br>CMM ( m <sup>3</sup> /min. )<br>CFM ( ft <sup>3</sup> /min. ).<br>Air temperature: °C/°F<br>Data hold. |
| Sensor Structure | <i>Air velocity &amp; Air flow</i><br>Conventional twisted van arm and low friction ball bearing design.<br><i>Temperature</i> : Thermistor.  |

|                       |  |                                    |
|-----------------------|--|------------------------------------|
| Memory Recall         | Record maximum & minimum reading value with recall.  |                                    |
| Power off             | Auto shut off saves battery life or manual off by push button.   |                                    |
| Sampling Time         | Approx. 1 sec.   |                                    |
| Operating Humidity    | Less than 80% RH.  |                                    |
| Operating Temperature | <i>Meter</i>   | 0 °C to 50 °C ( 32 °F to 122 °F ). |
|                       | <i>Probe</i>   | 0 °C to 80 °C ( 32 °F to 176 °F ). |
| Data Output           | RS 232 PC serial interface.  |                                    |
| Power Supply          | Alkaline or heavy duty type DC 9V battery, 006P, MN1604 (PP3) or equivalent.                                       |                                    |
| Power Consumption     | Approx. DC 8.3 mA.   |                                    |
| Weight                | 381 g/0.84 LB, main instrument   |                                    |
| Dimension             | <i>Main instrument:</i><br>180 x 72 x 32 mm ( 7.1 x 2.8 x 1.3 inch ).  |                                    |
|                       | <i>Probe :</i><br>Vane - 13 mm dia.<br>Telescope probe length - Max. 600 mm.                                       |                                    |
| Accessories Included  | Instruction manual..... 1 PC.<br>Sensor probe..... 1 PC.<br>Carrying case..... 1 PC.                               |                                    |
| Optional              | RS232 cable.....UPCB-01<br>USB cable..... USB=01<br>Windows software, data record and data acquisition SW-U801-WIN |                                    |

## ELECTRICAL SPECIFICATIONS ( 23 ± 5 °C )

### A. Air velocity

| Measurement | Range             | Resolution | Accuracy         |
|-------------|-------------------|------------|------------------|
| m/s         | 0.8 - 12.00 m/s   | 0.01 m/s   | ± (2%+0.2m/sec)  |
| km/h        | 2.8 - 43.2 km/h   | 0.1 km/h   | ± (2%+0.2km/h)   |
| mile/h      | 1.8 - 26.8 mile/h | 0.1 mile/h | ± (2%+0.2mile/h) |
| knots       | 1.6 - 23.3 knots  | 0.1 knots  | ± (2%+0.2knots)  |
| ft/min      | 160 - 2358 ft/min | 1 ft/min   | ± (2%+20 ft/min) |

### B. Air flow

| Measurement                   | Range                           | Resolution | Area                              |
|-------------------------------|---------------------------------|------------|-----------------------------------|
| CMM ( m <sup>3</sup> /min. )  | 0-999,900 m <sup>3</sup> /min.  | 0.001-100  | 0.001-9,999 m <sup>3</sup> /min.  |
| CFM ( ft <sup>3</sup> /min. ) | 0-999,900 ft <sup>3</sup> /min. | 0.001-100  | 0.001-9,999 ft <sup>3</sup> /min. |

### C. Air temperature

| Measuring Range | 0 °C to 80 °C/32 °F to 176 °F |
|-----------------|-------------------------------|
| Resolution      | 0.1 °C/0.1 °F                 |
| Accuracy        | 0.8 °C/1.5 °F ( < 60 °C )     |

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

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