

# HOT WIRE ANEMOMETER

Model : AM-4204

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

# HOT WIRE ANEMOMETER, Model : AM-420



## FEATURES

|   |  |
|---|--|
| * Thermal anemometer, available for very low air velocity measurement.  | * RS 232 PC serial interface.  |
| * Slim probe, ideal for grilles & diffusers.  | * The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.   |
| * Combination of hot wire and standard thermistor, deliver rapid and precise measurements even at low air velocity value. | * Multi-functions for air flow measurement : m/s, km/h, ft/min, knots, mile/h.   |
| * Microprocessor circuit assures maximum possible accuracy, provides special functions and features.                      | * Build in temperature °C, °F measurement.   |
| * Super large LCD with dual function meter's display, read the air velocity & temp. at the same time.                     | * Thermistor sensor for Temp. measurement, fast response time.   |
| * Heavy duty & compact housing case.  | * Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.  |
| * Records Maximum and Minimum readings with recall.   | * Deluxe hard carrying case.   |
| * Data hold.  | * Applications : Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case, Paint spray booths. |
| * Operates from 6 PCs UM-4 batteries.   |  |

## GENERAL SPECIFICATIONS

|                  |  |                       |  |
|------------------|--|-----------------------|--|
| Circuit          | Custom one-chip of micro-processor LSI circuit.  | Operating Temperature | 0 °C to 50 °C (32 °F to 122 °F).   |
| Display          | * 13 mm(0.5") Super large LCD display.<br>* Dual function meter's display.   | Operating Humidity    | Less than 80% RH.  |
| Measurement      | 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>Temp.- °C, °F.<br>Data hold. | Power Supply          | 1.5 V AAA (UM-4) battery x 6 PCs. (Alkaline or heavy duty type).   |
| Sensor Structure | <i>Air velocity :</i><br>Tiny glass bead thermistor.<br><i>Temperature :</i><br>Precision thermistor.  | Power Current         | Approx. DC 30 mA.  |
| Memory           | Maximum and Minimum with recall.   | Weight                | 355 g/0.78 LB.   |
| Sampling Time    | Approx. 0.8 sec.   | Dimension             | <i>Main instrument:</i><br>180 x 72 x 32 mm<br>( 7.1 x 2.8 x 1.3 inch ).<br><i>Telescope Probe :</i><br>Round, 12 mm Dia<br>x 280 mm ( min. length ).<br>x 940 mm ( max. length ). |
| Power off        | Manual off by push button.   | Accessories Included  | Instruction manual..... 1 PC.<br>Telescope Probe..... 1 PC.<br>Hard carrying case..... 1 PC.   |
| Data Output      | RS 232 PC serial interface.  | Optional Accessories  | Datalogger software :<br>SW-U801-WIN, SW-E802<br>USB cable : USB-01<br>RS232 cable : UPCB-01   |

## ELECTRICAL SPECIFICATIONS ( 23 °C )

| Measurement  | Range             | Resolution | Accuracy  |
|--|-------------------|------------|---|
| m/s  | 0.2 - 20.0 m/s    | 0.1 m/s    | ± ( 5 % + 1 d ) reading or<br>± ( 1 % + 1 d ) full scale<br>* <i>Depend on which is larger.</i> |
| km/h   | 0.7 - 72.0 km/h   | 0.1 km/h   |   |
| ft/min   | 40 - 3940 ft/min  | 1 ft/min   |   |
| mile/h   | 0.5 - 44.7 mile/h | 0.1 mile/h |   |
| knots  | 0.4 - 38.8 knots  | 0.1 knots  |   |
| Temperature ( °C )   | 0 °C to 50 °C     | 0.1 °C     | ± 0.8 °C  |
| Temperature ( °F )   | 32 °F to 122 °F   | 0.1 °F     | ± 1.5 °F  |
| <i>Note:</i><br><i>m/s - meters per second      km/h - kilometers per hour</i><br><i>ft/min - feet/per minute      knots - nautical miles per hour</i><br><i>mile/h - miles per hour      (international knot)</i> |                   |            |   |

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

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