

# TECPEL

*Air flow + Air Velocity , CMM, CFM*

# ANEMOMETER



**Model : AVM-712**



## FEATURES

- \* Air flow : CMM ( $m^3/min.$ ) and CFM ( $ft^3/min.$ )
- \* Air velocity :  
m/s, ft/min, km/h, knots.
- \* Air temperature :  $^{\circ}C$ ,  $^{\circ}F$ .
- \* 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.



# ANEMOMETER METER, air flow + air velocity

## Model : AVM 712

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

| GENERAL SPECIFICATIONS |                                                                                                                                                                               |                       |                                                                                                            |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|
| Circuit                | Exclusive one-chip of micro-computer LSI circuit.                                                                                                                             | Power off             | Auto shut off saves battery life or manual off by push button.                                             |
| Display                | * 13 mm (0.5") Super large LCD display.                                                                                                                                       | Sampling Time         | Approx. 0.8 sec.                                                                                           |
|                        | * Dual function meter's display.                                                                                                                                              | Operating Humidity    | Less than 80% RH.                                                                                          |
| Measurement            | <i>Air velocity :</i><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), | Operating Temperature | 0°C to 50°C ( 32°F to 122°F).                                                                              |
|                        |                                                                                                                                                                               | Data Output           | RS 232 PC serial interface.                                                                                |
|                        |                                                                                                                                                                               | Power Supply          | Alkaline or heavy duty type DC 9V battery, 006P, MN1604 (PP3) or equivalent.                               |
|                        |                                                                                                                                                                               | Power Current         | Approx. DC 8.3 mA.                                                                                         |
|                        | <i>Air flow :</i><br>CMM ( m <sup>3</sup> /min. ),<br>CFM ( ft <sup>3</sup> /min. )                                                                                           | Weight                | 381 g/0.84 LB.                                                                                             |
|                        |                                                                                                                                                                               | Dimension             | Main instrument:<br>180 x 72 x 32 mm<br>( 7.1 x 2.8 x 1.3 inch ).                                          |
|                        |                                                                                                                                                                               |                       | Sensor head :<br>Round, 72 mm Dia.                                                                         |
|                        |                                                                                                                                                                               | Accessories Included  | Instruction manual..... 1 PC.<br>Sensor probe..... 1 PC.<br>Carrying case..... 1 PC.                       |
| Memory Recall          | Record maximum & minimum reading value with recall.                                                                                                                           | Optional Accessories  | Software ( Windows version, data record & data acquisition )<br>.....SW-U101-WIN<br>RS232 cable....UPCB-01 |
| Sensor Structure       | <i>Air velocity &amp; Air flow :</i><br>Conventional twisted van arm and low friction ball bearing design.<br><br><i>Temperature :</i> Thermistor.                            |                       |                                                                                                            |

| ELECTRICAL SPECIFICATIONS (23 ± 5 °C) |                                   |                                   |                                     |
|---------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| <b>a. Air velocity</b>                |                                   |                                   |                                     |
| <i>Measurement</i>                    | <i>Range</i>                      | <i>Resolution</i>                 | <i>Accuracy</i>                     |
| m/s                                   | 0.4 - 25.0 m/s                    | 0.1 m/s                           | ± ( 2% + 2d )                       |
| 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 - 48.8 knots                  | 0.1 knots                         |                                     |
| ft/min                                | 80 - 4930 ft/min                  | 1 ft/min                          | ± ( 2% + 20 ft/min )                |
| <b>b. Air flow</b>                    |                                   |                                   |                                     |
| <i>Measurement</i>                    | <i>Range</i>                      | <i>Resolution</i>                 | <i>Area</i>                         |
| CMM ( m <sup>3</sup> /min. )          | 0 - 999,900 m <sup>3</sup> /min.  | 0.001 - 100 m <sup>3</sup> /min.  | 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 ft <sup>3</sup> /min. | 0.001 - 9,999 ft <sup>3</sup> /min. |
| <b>c. Air temperature</b>             |                                   |                                   |                                     |
| Temperature(°C)                       | 0 to 50 °C                        | 0.1 °C                            | 0.8 °C                              |
| Temperature(°F)                       | 32 to 122 °F                      | 0.1 °F                            | 1.5 °F                              |

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

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