

# TECPEL

## HOT WIRE ANEMOMETER

---



**Model : AVM 714**



### FEATURES

- \* Thermal anemometer, available for very low air velocity measurement.
- \* Slim probe, ideal for grilles & diffusers.
- \* Combination of hot wire and standard thermistor, deliver rapid and precise measurements even at low air velocity value.
- \* Microprocessor circuit,
- \* m/s, km/h, ft/min, knots. mile/h.
- \* Heavy duty & compact housing case.
- \* Data hold, Memory ( Max. & Min. )
- \* Auto shut off saves battery life.
- \* RS 232 PC serial interface.
- \* Thermistor sensor for Temperature measurement, fast response time.
- \* Applications : Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case, Paint spray booths.

# HOT WIRE ANEMOMETER, Model : AVM 714

## 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.
* Auto shut off saves battery life.	
* Operates from 6 PCs UM-4 batteries.	

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of micro-processor LSI circuit.	Data Output	RS 232 PC serial interface.
Display	* 13 mm(0.5") Super large LCD display. * Dual function meter's display.	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F).
Measurement	m/s (meters per second) km/h (kilometers per hour) ft/min (feet/per minute) knots (nautical miles per hour) mile/h(miles per hour) Temp.- °C, °F. Data hold.	Operating Humidity	Less than 80% RH.
		Power Supply	1.5 V AAA (UM-4) battery x 6 PCs. (Alkaline or heavy duty type).
Sensor Structure	<i>Air velocity :</i> Tiny glass bead thermistor. <i>Temperature :</i> Precision thermistor.	Power Current	Approx. DC 30 mA.
		Weight	355 g/0.78 LB.
Memory	Maximum and Minimum with recall.	Dimension	<i>Main instrument:</i> 180 x 72 x 32 mm ( 7.1 x 2.8 x1.3 inch ). <i>Telescope Probe :</i> Round, 12 mm Dia x 280 mm ( min. length ). x 940 mm ( max. length ).
Sampling Time	Approx. 0.8 sec.	Accessories Included	Instruction manual..... 1 PC. Telescope Probe.....1 PC. Hard carrying case.....1 PC.
Power off	Auto shut off saves battery life or manual off by push button.	Optional	Datalogger software : SW-U801-WIN
		Accessories	RS232 cable : UPCB-01

## ELECTRICAL SPECIFICATIONS ( 23 ± 5°C )

Measurement	Range	Resolution	Accuracy
m/s	0.2 - 20.0 m/s	0.1 m/s	± ( 5 % + 1 d ) reading or ± ( 1 % + 1 d ) full scale * <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> m/s - meters per second      km/h - kilometers per hour ft/min - feet/per minute      knots - nautical miles per hour mile/h - miles per hour      (international knot)			

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

0403-AM4204