



Air flow + Air velocity

HOT WIRE ANEMOMETER METER

Model : AM-4214

FEATURES	
* Thermal anemometer, available for very low air velocity measurement.	* Auto shut off saves battery life.
* Slim probe, ideal for grilles & diffusers.	* Thermistor sensor for temp. measurement, fast response time.
* Combination of hot wire and standard thermistor, deliver rapid and precise measurements even at low air velocity value.	* Build-in low battery indicator.
* Air flow : CMM ($\text{m}^3/\text{min.}$) and CFM ($\text{ft}^3/\text{min.}$)	* Operates from 006P DC 9V battery.
* Air velocity : m/s, ft/min, km/h, knots.	* RS 232 PC serial interface.
* Air temperature : $^{\circ}\text{C}$, $^{\circ}\text{F}$.	* Separate probe, easy for operation of the different measurement environment.
* 3 air flow mode : Instant, 2/3 Vmax, Average.	* Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
* Large LCD with dual display.	* Deluxe hard carrying case.
* Record maximum and minimum reading with recall.	* Applications : Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case, Paint SPRAY booths.
* Data hold.	
* Microcomputer circuit provides special function & offer high accuracy.	

GENERAL SPECIFICATIONS			
Circuit	Exclusive one-chip of micro-computer LSI circuit.	Sampling Time	Approx. 0.8 sec.
Display	* 13 mm (0.5") Super large LCD display. * Dual function meter's display.	Operating Humidity	Less than 80% RH.
Measurement	<i>Air velocity :</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), <i>Air flow :</i> CMM ($\text{m}^3/\text{min.}$), CFM ($\text{ft}^3/\text{min.}$) <i>Air temperature :</i> $^{\circ}\text{C}$, $^{\circ}\text{F}$. <i>Data hold.</i>	Operating Temperature	0 to 50 $^{\circ}\text{C}$ (32 to 122 $^{\circ}\text{F}$).
Memory Recall	Record maximum & minimum reading value with recall.	Data Output	RS 232 PC serial interface.
Sensor Structure	<i>Air velocity & Air flow :</i> Tiny glass bead thermistor. <i>Temperature :</i> Precision thermistor.	Power Supply	1.5 V AAA (UM-4) battery x 6 PCs, Alkaline/heavy duty type or equivalent.
Power off	Auto shut off saves battery life or manual off by push button.	Power Current	Approx. DC 30 mA.
		Weight	355 g/0.78 LB.
		Dimension	<i>Main instrument:</i> 180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch). <i>Telescope Probe :</i> Round, 12 mm Dia x 280 mm (min. length). 12 mm Dia x 940 mm (min. length).
		Accessories Included	Instruction manual..... 1 PC. Telescope Probe.....1 PC. Carrying case..... 1 PC.
		Optional Accessories	Software (Windows version, data record & data acquisition)SW-801-WIN RS232 cable..... UPCB-01

ELECTRICAL SPECIFICATIONS (23 ± 5℃)				
a. Air velocity				
Measurement	Range	Resolution	Accuracy	
m/s	0.2 - 9.99 m/s	0.01 m/s	± (5 % + 1 d) reading or ± (1 % + 1 d) full scale @ Depend on which is larger.	
	10.0 - 20.0 m/s	0.1 m/s		
km/h	0.7 - 72.0 km/h	0.1 km/h		
mile/h	0.5 - 44.7 mile/h	1 ft/min		
knots	0.4 - 38.8 knots	0.1 mile/h		
ft/min	40 - 3940 ft/min	0.1 knots		
b. Air flow				
Measurement	Range	Resolution	Area	
CMM (m ³ /min.)	0 - 999,900 m ³ /min.	0.001 - 100 m ³ /min.	0.001 - 9,999 m ³ /min.	
CFM (ft ³ /min.)	0 - 999,900 ft ³ /min.	0.001 - 100 ft ³ /min.	0.001 - 9,999 ft ³ /min.	
c. Air temperature				
Temperature(℃)	0 ℃ to 50 ℃	0.1 ℃	0.8 ℃	
Temperature(°F)	32 °F 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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