



ENGLISH

Datasheet

Stock No. 123-2203

**AVM-09**

**Flow Anemometer**



## FEATURES:

- Sensitive and accurate measurements due to ultra low friction turbine jewel bearing.
- Flow measurement in CMM or CFM.
- Velocity measurement in m/s, ft/min, knots, km/hr or mph.
- Dual Display showing velocity + temperature or flow + area.
- RS-232C interface.
- °C or °F selectable.
- Ergonomic and easy-to-use design.
- Read while measuring via detached vane sensor.
- Large 17mm 3½ digits Liquid Crystal Display.
- Hold/Max/Min function.
- Build-in low-battery indicator

## SPECIFICATIONS (@23±5°C):

### Range of wind velocity:

Units	Range	Resolution	Threshold	Accuracy
m/s	0.0 – 45.0	0.01	0.3	±3% ± 0.1
ft/min	0 – 8800	2	60	±3% ± 20
knots	0.0 – 88.0	0.02	0.6	±3% ± 0.2
Km/hr	0.0 – 140.0	0.04	1.0	±3% ± 0.4
mph	0.0 - 100.0	0.02	0.7	±3% ± 0.2

m/s: metres per second

ft/min: feet per minute

knots: nautical miles per hour

Km/hr: kilometers per hour

mph: miles per hour

### Units conversion table:

	m/s	ft/min	knots	Km/hr	Mph
1 m/s	1	196.87	1.944	3.60	2.24
1 ft/min	0.00508	1	0.00987	0.01829	0.01138
1 knot	0.5144	101.27	1	1.8519	1.1523
1 Km/hr	0.2778	54.69	0.54	1	0.6222
1 mph	0.4464	87.89	0.8679	1.6071	1

### Range of temperature:

	Range	Resolution	Accuracy
° C	0 - 45.0	0.2	±1.0
° F	32.0 - 113.0	0.36	±1.8

**Flow (Auto-range, CMM: 0 to 45.00 m/s, CFM: 0 to 8800 ft/min)**

	Range	Resolution	Area
CFM (ft <sup>3</sup> /min)	0 - 999900	0.001 - 100	0.001- 9999
CMM (m <sup>3</sup> /min)	0 - 999900	0.001 - 100	0.001- 9999

**CFM** (ft<sup>3</sup>/min)=Wind velocity(ft/min)x area(ft<sup>2</sup>)

**CMM** (m<sup>3</sup>/min)=Wind velocity(m/s)x area(m<sup>2</sup>)x60

- Sensor turbine bearing: Sapphire jewel  
Temperature sensor: K-type thermocouple  
Mounting nut: 1/4" x 20 UNC  
Operating temperature: Meter: 0 °C ~ 50 °C (32 °F ~ 122 °F)  
Vane: 0 °C ~ 60 °C (32 °F ~ 140 °F)  
Operating humidity: Less than 80% RH  
Operating pressure: 500 mB to 2 Bar  
Storage temperature: -40 °C to 60 °C (-40 °F to 140 °F)  
Power consumption: Approx. 3 mA  
Battery type: 9V IEC 6LR61  
Battery life: 50 hours (for 300mA-hrs battery)  
Dimensions:  
Meter: 3.46"x 6.61"x 1.03"(88x 168 x 26.2mm)  
Sensor: 2.60" x 5.22" x 1.15"(66 x 132 x 29.2mm)  
Weight: 12.34oz. (battery included) (350g)  
Accessories: Carrying case x 1  
Users manual x 1  
9V Battery x 1