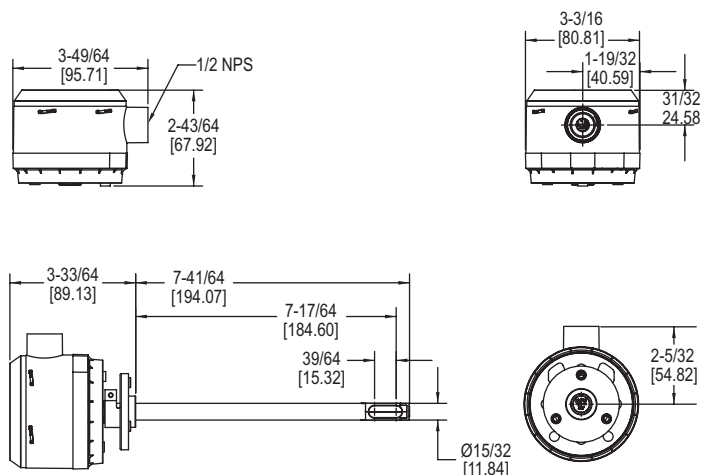


AIR VELOCITY TRANSMITTER

1% and 2% Models, Optional BACnet MS/TP or Modbus®



The **Series AVLV Air Velocity Transmitter** quickly and accurately measures air velocity or volumetric flow in imperial or metric units. Simultaneous current and voltage outputs on all models provide universal inputs to monitoring equipment while the output range, units, and 0-5/10 VDC output can be configured via local DIP switches. The optional integral display, or the portable remote tool, provide a convenient way to local monitor process values and configure the unit.

Models are available in 1% and 2% accuracy models and low velocity ranges to suit a variety of needs, and the optional BACnet MS/TP or Modbus® RTU/ASCII communication protocol allows units to be daisy-chained while providing access to all of the velocity and flow data, as well as additional information such as air temperature. The lower ranges in these high accuracy units allow for applications in quality intensive environments, such as the pharmaceutical industry.

FEATURES/BENEFITS

- Sensing elements have been coated with an engineered conformal coating to ensure durability and longevity
- Field selectable ranges can be quickly configured without power to the unit

APPLICATIONS

- VAV systems
- Building ducts
- Clean room systems

SPECIFICATIONS

Service: Clean air and non-combustible, compatible gases.

Wetted Materials: Consult factory.

Range: 100, 200, 300, 400 FPM (0.5, 1, 1.5, 2 m/s); field selectable.

Accuracy: See chart.

Temperature Limits: 32 to 122°F (0 to 50°C).

Power Requirements: 24 VDC $\pm 20\%$ or 24 VAC $\pm 20\%$.

Humidity Limits: 5 to 95% RH, non-condensing.

Output Signals: 4-20 mA, 0-5 VDC, 0-10 VDC.

Response Time (90%): 4 s, typical; 1 s at constant temperature.

Zero & Span Adjustments: Digital push buttons.

Output Load Resistance: Current output: 0 to 1100 Ω max.; Voltage output: Minimum load resistance 1 k Ω .

Current Consumption: 60 mA max.

Display: 5 digit LCD (optional).

Electrical Connections: Analog: Power and output: four wire removable European style terminal block for 16 to 26 AWG; Communication: Connections: BACnet MS/TP or Modbus® RTU/ASCII: three wire removable European style terminal block for 16 to 26 AWG.

Supported Communication Baud Rates: 9600, 19200, 38400, 57600, 76800, 115200 (optional).

Device Load: 1/8 unit load.

Electrical Entry: 1/2" NPS thread; Accessory: Cable gland for 5 to 10 mm diameter cable, A-151.

Enclosure Rating: NEMA 4X (IP66).

Mounting Orientation: Flow direction must be parallel to the sensor tip.

Weight: 6.0 oz (160 g).

Agency Approval: BTL, CE.

MODEL CHART					
Example	AVLV	-2	D	A1	-LCD AVL-2DA1-LCD
Model	AVLV				Air velocity transmitter
Accuracy		2			\pm (2% of reading + 0.06 m/s)
		1			\pm (1% of reading + 0.06 m/s)
Mounting			D		Duct mount
Output				A1	Analog universal (0-5 VDC, 0-10 VDC, 4-20 mA)
				B1	Analog + BACnet MS/TP
				M1	Analog + Modbus® RTU/ASCII
Options				LCD	LCD display
				FC	Factory calibration certificate
				NIST	NIST certificate
				GLD	Electrical cable gland

ACCURACY CHART	
Velocity Range	Accuracy Rating*
20 to 100 FPM (0.15 to 0.5 m/s)	\pm (2% of reading + 0.04 m/s [7.9 FPM]) \pm (1% of reading + 0.04 m/s [7.9 FPM])
20 to 200 FPM (0.15 to 1.0 m/s)	\pm (2% of reading + 0.04 m/s [7.9 FPM]) \pm (1% of reading + 0.04 m/s [7.9 FPM])
20 to 300 FPM (0.15 to 1.5 m/s)	\pm (2% of reading + 0.05 m/s [9.8 FPM]) \pm (1% of reading + 0.05 m/s [9.8 FPM])
20 to 400 FPM (0.15 to 2.0 m/s)	\pm (2% of reading + 0.06 m/s [11.8 FPM]) \pm (1% of reading + 0.06 m/s [11.8 FPM])

*Accuracy dependent on model selected when ordering.