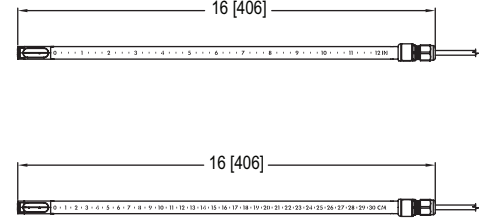
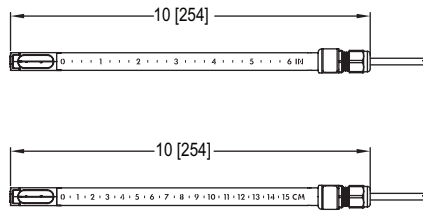
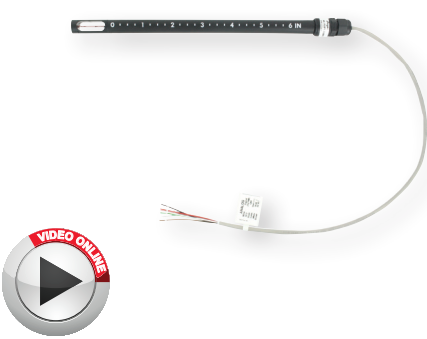


# PENCIL STYLE AIR VELOCITY TRANSMITTER

## 3% and 5% Models, Optional BACnet Communication Protocols



6" probe length

12" probe length

The **Series AVPT Pencil Style Air Velocity Transmitter** uses thermal anemometer technology to provide high accuracy and stable air velocity measurements in imperial and metric units. The Series AVPT can be configured with either a voltage output or BACnet MS/TP communication to provide universal inputs to a variety of monitoring equipment. Models are available with fixed cable lengths of 20 or 78 inches with flying leads or a 5-pin M12 connector on a 24 inch cable. Probes are available in lengths of 6 or 12 inches. A mounting flange included with the product provides the ability to vary insertion depth.

Models are available in 3% or 5% accuracy to suit a variety of applications, while the optional BACnet MS/TP communication protocol allows units to be daisy-chained to provide access to all of the velocity and temperature measurements.

**FEATURES/BENEFITS**

- Sensing elements have been coated with an engineered conformal coating to ensure durability and longevity
- Varying lengths for easy installation
- Functionality at temperatures below freezing

**APPLICATIONS**

- VAV systems
- Building ducts

SPECIFICATIONS	
<b>Service:</b>	Clean air.
<b>Ranges:</b>	1000, 2000, 3000, or 4000 FPM (5, 10, 15, or 20 m/s); Model specific.
<b>Accuracy:</b>	Standard: ±(5% reading +40 FPM); High accuracy: ±(3% reading +40 FPM); Model specific.
<b>Power Requirements:</b>	24 VAC/VDC ±20%.
<b>Current Consumption:</b>	< 50 mA.
<b>Outputs:</b>	Analog: 0-10 V (0-5 V configurable).
<b>BACnet MS/TP:</b>	Selectable at time of order.
<b>Supported Baud Rate:</b>	9600, 19200, 38400, 57600, 76800, and 115200.
<b>Voltage Output Load Resistance:</b>	10k Ω minimum (10 V output with AC supply); 1k Ω minimum all other conditions.
<b>Electrical Connection:</b>	Cable: Plenum rated cable with 22 AWG conductors.
<b>5-Conductor Cable whip:</b>	20" (0.5 m) or 78" (2 m).
<b>5-pin M-12:</b>	24" (0.6 m); model specific.
<b>Response Time (90%):</b>	4 s, typical.
<b>Operational Temperature Limits:</b>	-4 to 140 °F (-20 to 60 °C).
<b>Storage Temperature Limits:</b>	-40 to 140°F (-40 to 60°C).
<b>Probe Length:</b>	6" or 12"; model specific.
<b>Enclosure Rating:</b>	NEMA 3.
<b>Mounting Orientation:</b>	Flow direction must be parallel to the sensor tip; See Installation section for details.
<b>Weight:</b>	1.4 oz (40 g); based on M12 connection with 12" probe length.
<b>Agency Approvals:</b>	CE, RCM, BTL, UL plenum rated (UL tested).

MODEL CHART									
Example	AVPT	-S	03	C1	A	06	-127	-FC	AVPT-S03C1A06-127-FC
Series	AVPT								Pencil style air velocity transmitter
Accuracy		S H							Standard ±5% of reading +40 FPM High accuracy ±3% of reading +40 FPM
Velocity Range			01 02 03 04 05 10 15 20						1000 FPM 2000 FPM 3000 FPM 4000 FPM 5 m/s 10 m/s 15 m/s 20 m/s
Electrical Connection				C1 C2 M1					Cable whip 20" (0.5 m) Cable whip 78" (2 m) M12 24" (0.6 m)
Output Type					A B				Analog 0-5 V and 0-10 V BACnet MS/TP
Probe Length						06 12			6" 12"
BACnet Address							127		000-127 whole integer with BACnet output
Options								FC NIST	Factory calibration certificate NIST traceable certificate

MODEL CHART	
Example	AVPT
SCD-PS	100-240 VAC/VDC to 24 VDC power supply
A-AVUL-MTG	Replacement mounting flange
A-AVUL-QFG	Quick fix cable gland for outside the duct installation