AIRFLOW AND VELOCITY TRANSMITTERS AVT Series

Multifunctional air velocity transmitters for building automation systems

The AVT series air velocity transmitters are engineered for building automation in the HVAC/R industry. The AVTs measure air velocity and temperature, with field selectable range and output options in a single device. Designed with a duct mount probe and adjustable collar suitable for round or rectangular ducts.

AVT series devices include:

- 3 field selectable measurement ranges for air velocity, selectable via jumper (see Model Summary).
- Separate readings and outputs for air velocity and temperature.
- Proportional output options include: voltage (0–10 V) and current (4–20 mA).

AVT series device options offer:

- Backlit display
- Field adjustable relay

The versatility of the AVT series air velocity transmitters ensures that the right product for your application is available.



SIMILAR PRODUCTS

• DPT-FLOW series airflow transmitters

APPLICATIONS

AVT series devices are commonly used in HVAC/R systems for:

- in-duct airflow and velocity monitoring
- in-duct temperature monitoring
- VAV applications

MODEL SUMMARY

Measurement ranges Velocity: (m/s) Temperature: °C (field selectable via jumper)	02 / 010 / 020 m/s 050 °C	
Description	Model	Product code
All-in-one air velocity transmitters	AVT	117.004.001
- with display	AVT-D	117.004.002
- with display and relay	AVT-D-R	117.004.003

AIRFLOW AND VELOCITY TRANSMITTERS AVT Series

Multifunctional air velocity transmitters for building automation systems

SPECIFICATIONS

Performance

Technical Specifications

Media compatibility: Dry air or non-aggressive gases Measuring units: m/s and °C Measuring element: Temperature: ntc10k Velocity: Pt1000 Environment: Operating temperature: 0...50 °C Storage temperature: -20...70 °C Humidity: 0 to 95 % rH, non-condensing

Physical

Dimensions: Case : 90.0 x 95.0 x 36.0 mm Probe: OD 10 mm, length 210 mm from bottom of the cover Immersion Length with Flange: Adjustable 50–180 mm Weight: 220 g Mounting: 2 screw holes, 4.0 mm Materials: Case: ABS Lid: PC Probe: Stainless steel 304 Protection standard: IP54 Display 3 1/2 digit LCD backlit display Size: 45.7 x 12.7 mm **Electrical connections:** Power supply & signal out: 4-screw terminal block 12-24 AWG (0.2-1.5 mm²) Relay Out: 3-screw terminal block 12-24AWG (0.2-1.5 mm²)

Cable entry: M16

Electrical

Input: 24 VDC / 24 VAC ± 10 % Current consumption 35 mA (50 mA with relay) + 40 mA with mA-outs Output signal 1: (T out) 0-10 V (linear to temperature) L min 1 kO 4-20 mA (linear to temperature) L max 400 Ω Output signal 2: (v out) 0-10 V (linear to m/s) L min 1 kO 4-20 mA (linear to m/s) L max 400 Ω Relay Out: 3-screw terminal block (NC, COM, NO) 12-24 AWG (0.2-1.5 mm²) Potential free SPDT 250 VAC, 6A / 30 VDC, 6 A adjustable switching point and hysteresis

Conformance

Meets the requirements for CE marking: EMC Directive 2004/108/EC RoHS Directive 2002/95/EC LVD Directive 2006/95/EC WEEE Directive 2002/96/EC



How to generate a model?

Example:	Product series				
AVT-D-R	AVT	Air velocity transmitter			
		Display			
		-D	With display		
			Without display		
			Relay		
			-R	With relay	
				Without relay	
Model	AVT	-D	-R		