

AIR FLOW AND VELOCITY TRANSMITTERS

AVT SERIES

SPECIFICATIONS

Performance

Measurement ranges:

Velocity: Range: 0–2 m/s
 Range: 0–10 m/s
 Range: 0–20 m/s
 Temperature: 0–50 °C

Accuracy:

Velocity: Range: 0...2 m/s:
 <0.1 m/s + 5 % from reading
 Range: 0...10 m/s:
 <0.5 m/s + 5 % from reading
 Range: 0...20 m/s:
 <1.0 m/s + 5 % from reading
 Temperature: <0.5 °C (velocity > 0.5 m/s)

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:

Mounting flange, ø 4.0 mm

Materials:

Case: ABS
 Lid: PC
 Probe: Stainless steel 304
 Mounting flange: LLPDP

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
 12–24 AWG (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 kΩ
 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 kΩ
 4–20 mA (linear to m/s)
 L max 400 Ω
 Relay Out: 3-screw terminal block
 (NC, COM, NO)
 Potential free SPDT
 250 VAC, 6A / 30 VDC, 6 A adjustable switching point
 and hysteresis

Conformance

Meets the requirements for CE marking:
 EMC Directive 2014/30/EU
 RoHS Directive 2011/65/EU
 LVD Directive 2014/35/EU
 WEEE Directive 2012/19/EU

COMPANY WITH
 MANAGEMENT SYSTEM
 CERTIFIED BY DNV GL
 = ISO 9001 = ISO 14001 =



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 |