AIR VELOCITY CUM TEMPERATURE TRANSMITTER

Dimensions
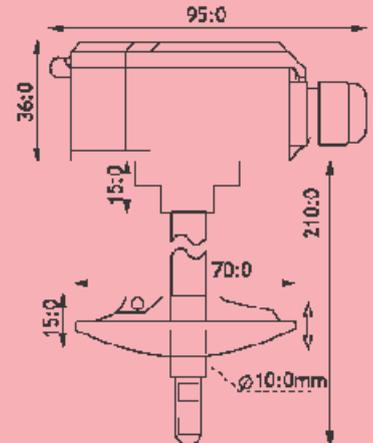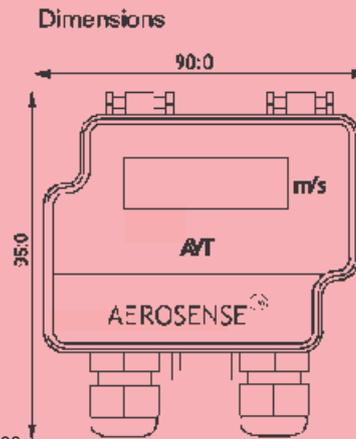
Air velocity transmitter is delivered individually packed with standard accessories

The **AVT series** air velocity/Temperature 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 duct.

Specifications:

Media compatibility: Dry air or non-aggressive gases
Measuring units: m/s and °C
Measuring element: Temperature: ntc10k & Velocity: Pt1000
Operating temperature: 0...50 °C
Storage temperature: -20...70 °C
Humidity: 0 to 95 % RH, non-condensing
Velocity Range: 0–2 m/s, 0–10 m/s, 0–20 m/s
Temperature Range: 0−50 °C
Velocity Accuracy:
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 Accuracy: <0.5° C (velocity > 0.5 m/s)

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
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
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)
          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

Ordering:

For Standard Air Velocity Transmitter Model AVT
For Display Models AVT-D &
For Relay Models AVT-D-R