

## Description

The Air Velocity and temperature Transmitter AVT-8 is an accurate, cost-effective sensor for nearly any market where air flow must be monitored.

The AVT-8 is robust, easily installed and can be used in a wide variety of applications and able to measure airflow 0.3-8.0 m/s and air temperature 0-50 °C.

## APPLICATION EXAMPLES

- HVAC System Controls
- Building Automation
- Medical Facilities
- Data Center Management

### Output conversion:

Flow (0.3 - 8.0 m/s): (flow output) x 0.8 (0.375 - 10V)

Temperature: (temperature output) x 5 (0.000 - 10V)

### Conversion example:

Velocity measured to 4.5V = 4.5V x 0.8 = 3.6 m/s

Temperature measured to 5.2V = 5.2V x 5 = 26.0 °C

The startup time of the product is up to 1 minute. The output signal will not reflect the flow measurement until after this start up time.



## Technical Data

Power supply:	15 - 30 VDC 40mA or 24 VAC±15% 90mA
Mains fuse:	max. 300mA
Op. Temperature:	5 - 50 °C
Precision, temperature:	±5% @ flow >0.3m/s
Precision, flow:	±10% of full scale
Output, temperature:	0 - 10V DC (0 - 50 °C) 10mA
Output, flow:	0.375 - 10V DC (0.3 - 8.0 m/s) 10mA
Enclosure, in duct:	IP 42 (for the part outside the duct)
Enclosure, open:	IP 10
Dimensions:	Ø18 x 200 mm
Cable length:	2 m

## Configuration:

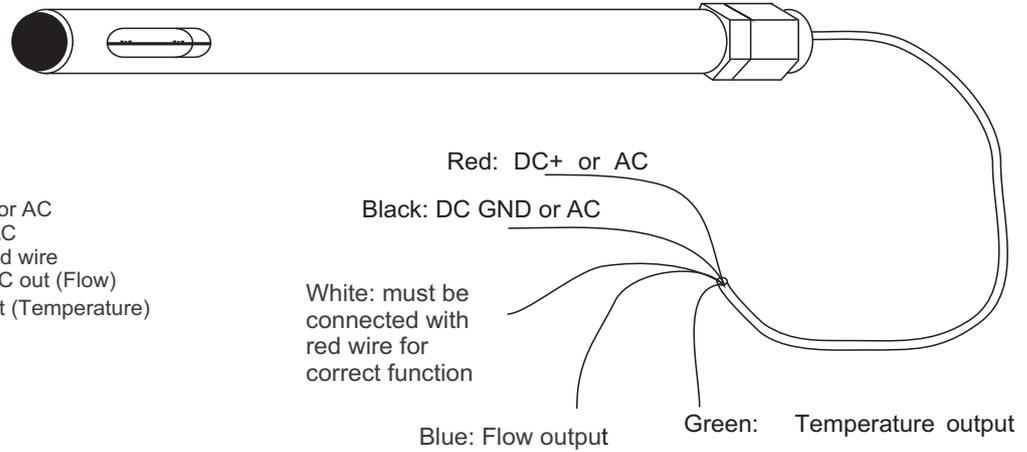
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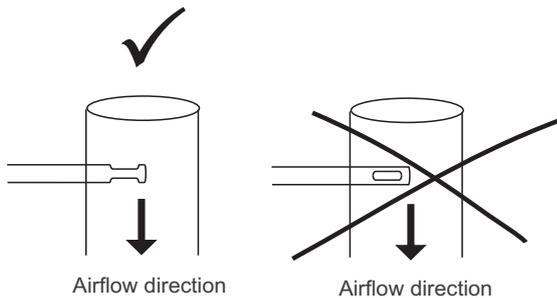
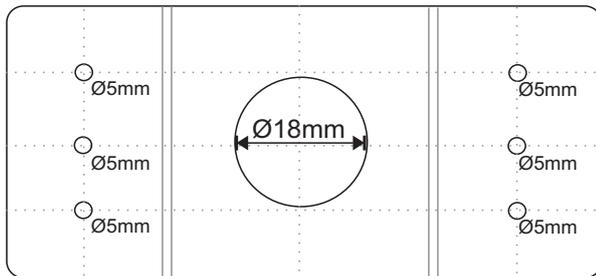
## AVT-8 Air Velocity & Temperature Transmitter 0.3 - 8.0 m/s

### Mounting & Dimensions

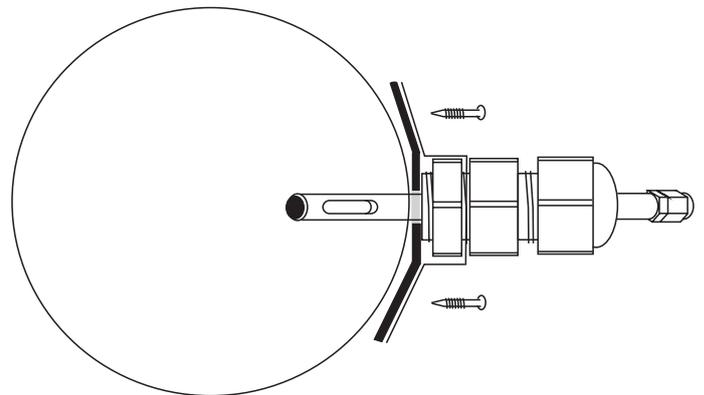


Red: DC + Supply or AC  
 Black: DC GND or AC  
 White: Connect to red wire  
 Blue: 0.375 - 10VDC out (Flow)  
 Green: 0 - 10VDC out (Temperature)

#### Accessory: Mounting bracket



#### Mounting with bracket



#### Mounting:

The transmitter is mounted on the duct with a bracket (included). It is important that the sensor is positioned correctly to ensure that the air passes through the openings in the sensor pipe. The transmitter is fixed by tightening the gland on the bracket. The transmitter is now secured in position.

It is important to place the transmitter in a steady airflow to avoid turbulent air.

Do not install closer than the distance: (4 x duct diameter) to branches, elbows, air valves etc.

#### Cleaning/maintenance:

It is not advisable to disassemble the product, as this will affect the accuracy. The product may be cleaned with air. If compressed air is used, please show caution.