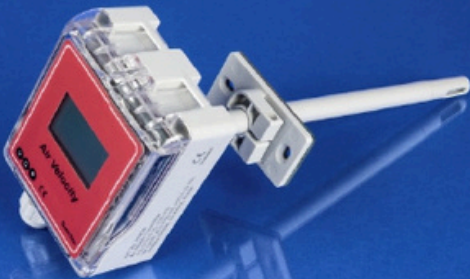


AVT 251



AVT 251 MDR2B

Features

AVT 251 and AVT 551

- Ranges
AVT 251: 0-5 m/s, 0-10 m/s, 0-15 m/s or 0-20 m/s
AVT 551: 0-1 m/s, 0-2 m/s, 0-3 m/s or 0-5 m/s
DIP switches selectable
- Two outputs for Air Velocity
4-20 mA and 0-10 Vdc
- Accuracy Air Velocity
 $\pm 5\%$ for 0-20 m/s
- Response time 1 second or 5 seconds
DIP switches selectable
- Power supply 24 Vac/dc
- IP ratings
IP65 for enclosure
IP10 for probe
- Duct mounting flange with neoprene gasket
for good sealing into the duct and
to adjust the penetration probe depth

Extra features for AVT 251 MDR2B and AVT 551 MDR2B

- Modbus RS485 communication
- LCD Display
- 2 x relay outputs
- Buzzer

On request :

- Output 2-10 Vdc, 0-5 Vdc and 1-5 Vdc
- Output number 2 (AO2) can be supplied as
Temperature output instead of Air Velocity output.
- Other combination AVT types on next page

Applications

- Duct sensor for air velocity measurement in HVAC systems.
- Measurement in ventilation ducts
- For control, surveillance, and regulation of the flow rate in fresh-air and ventilation systems, etc.
- HVAC supply or extract air measuring
- Clean room monitoring and control etc



Air Velocity Transmitters

AVT-series

February 2022b

Ordering codes

Type	Range	Air Velocity Output (AO1)	Air Velocity Output (AO2)	Options	Advanced options
AVT	2 = 0-5 m/s 0-10 m/s 0-15 m/s 0-20 m/s 5 = 0-1 m/s 0-2 m/s 0-3 m/s 0-5 m/s	0 = no output 1 = 0-10 Vdc 2 = 2-10 Vdc 3 = 0-5 Vdc 4 = 1-5 Vdc 5 = 4-20 mA	0 = no output 1 = 0-10 Vdc 2 = 2-10 Vdc 3 = 0-5 Vdc 4 = 1-5 Vdc 5 = 4-20 mA	M = Modbus RS485 D = LCD display R2 = 2 x Relay outputs B = Buzzer	P = PID out T = RTC R = Datalogger

- 1.. For a fine temperature measurement air velocity should be higher than 1 m/s
- 2.. AO1 is always for Air Velocity output
- 3.. AO2 is Air Velocity output as standard. On request Temperature output.
- 4.. Relay and Buzzer options should have be ordered with Display option
- 5.. For advanced options and special applications, please contact with us

Ordering examples

AVT 251
Air Velocity transmitter
Ranges 0-5 m/s, 0-10 m/s, 0-15 m/s or 0-20 m/s, DIP switches selectable
Output 1 (AO1) : 4-20 mA
Output 2 (AO2) : 0-10 Vdc

AVT 551
Air Velocity transmitter
Ranges 0-1 m/s, 0-2 m/s, 0-3 m/s or 0-5 m/s, DIP switches selectable
Output 1 (AO1) : 4-20 mA
Output 2 (AO2) : 0-10 Vdc

AVT 251 MDR2B
Air Velocity transmitter
Ranges 0-5 m/s, 0-10 m/s, 0-15 m/s or 0-20 m/s, DIP switches selectable
Output 1 (AO1) : 4-20 mA
Output 2 (AO2) : 0-10 Vdc
Modbus RS485 communication
LCD Display
2 x Relay outputs
Buzzer

AVT 551 MDR2B
Air Velocity transmitter
Ranges 0-1 m/s, 0-2 m/s, 0-3 m/s or 0-5 m/s, DIP switches selectable
Output 1 (AO1) : 4-20 mA
Output 2 (AO2) : 0-10 Vdc
Modbus RS485 communication
LCD Display
2 x Relay outputs
Buzzer

AVT 251, AVT 551 , AVT 251 MDR2B and AVT 551 MDR2B are standard types and can be ordered one piece if required.

Other AVT types than AVT 251, AVT 551 , AVT 251 MDR2B and AVT 551 MDR2B can be ordered in minimum 25 pcs per each type.



Ventilation Control Products

Air Velocity Transmitters

AVT-series

February 2022b

Technical data

Electrical	Power Supply	24 Vac (± %5), 50-60 Hz 15-35 Vdc
	Power Consumption	< 2.5 W
Outputs	Current Output	4-20 mA, maximum 500 Ω
	Voltage Output	0-10 Vdc, minimum 1.000 Ω 0-5 Vdc, minimum 1.000 Ω
	Relay Output	max. rating 1A @ 220 Vac
Accuracy	Air Velocity	± 5 % for 0-20 m/s
	Temperature	0.5°C at min 1 m/s
General Data	Sensing Element	Hotwire PT1200
	Media	Air or non-aggressive gasses
	Operating Temperature	-25 to +70°C
	Storage Temperature	-30 to +85°C
Ranges	Air Velocity	
	AVT 2	0-5 m/s 0-10 m/s 0-15 m/s 0-20 m/s
	AVT 5	0-1 m/s 0-2 m/s 0-3 m/s 0-5 m/s
	Temperature	-30 to +70°C and 0 to +100°C
Connections	X1-X2Terminals	Pluggable screw terminal
	X3 terminals	Fixed screw terminal
	Cable	maximum 1.5mm ²
	Cable Gland	M16
Protection	Enclosure	IP65
	Probe	IP10
Standards	EMC Directive	EN 61326-1
	CE Conformity	CE1708
Dimensions	Enclosure	98.0 x 81.5 x 45.5 mm
	Probe	diameter 13 mm, length 255 mm
Packing (carton) dimensions	100 x 90 x 330 mm	
Weight Packed	270 grams	

General Notes

- 1.. High density of humidity may effect the measurements.
- 2.. Observe maximum permissible cable lengths.
- 3.. If cable runs parallel to the mains cable: Use shielded cables.
- 4.. Never test with flammable gasses.
- 5.. The cable entry always should have to be pointing downwards.
- 6.. The data indicated under 'Technical Data' apply only to vertically mounted transmitters.
- 7.. Transmitters should be far away from humidifiers, min. 2 meters.