

THERMAL MEASUREMENT AIR VELOCITY TRANSMITTER

Special Features:

- Based on Thermal Measurement Principles
- Sensitive Hot Film Sensor
- Strong Pollution Tolerance
- Low Airflow Angle Dependence
- Wide Temperature Range with Temperature Compensation
- Over Voltage and Reverse Polarity Protection
- Multiple Outputs Available
- Field Jumper Selection for Velocity Ranges
- Fast Response Time



Applications:

AVT4 Air Velocity Transmitters Are Used For Various Applications To Detect, Adjust And Control Air Velocity In Ventilation Measurement And Control Systems To Satisfy The Relevant Ventilation Requirements And Effectively Reduce The Energy Consumption.

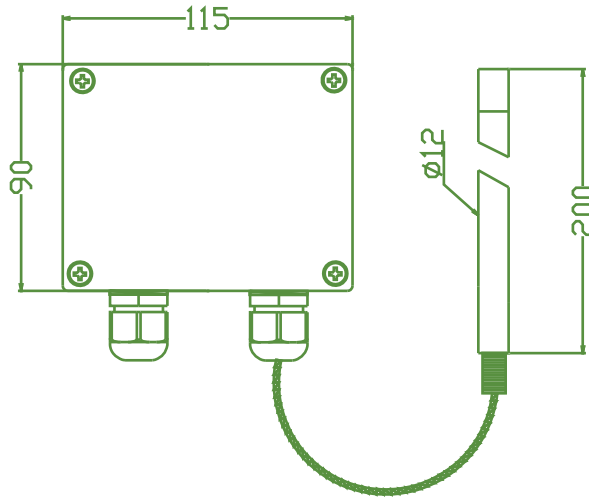
Performance Specifications:

Sensor	: Thermal Hot Film Sensor
Range	: 0 - 5 / 10 / 15 / 20 m/s
Output	: 4~20mA (3 wires), 0~10VDC(3 wires), RS485 / Modbus
Power Supply	: 18 - 30VAC / VDC
Accuracy	: $\pm 0.2\text{m/s} + 3\%$ Measurement Value @ 20°C , 45%RH
Sensitivity	: 0.001 m/s
Response time	: 2s
Angle Dependence	: $<3\%$ Measuring Value @ $ \Delta\alpha < 20^\circ$
Temp. Sensor	: High Accuracy Thermistor
Operating Temp.	: -20 to 85°C
Temp. Accuracy	: $\pm 0.5^\circ\text{C}$
Temp. Sensitivity	: $<0.1\%$ / $^\circ\text{K}$
Temp. Range	: 0 to 50°C (Corresponding to 4 - 20mA / 0 - 10V Output)
Relay Output	: 1 SPDT, 1A @ 30VDC, 0.5A @ 125VAC (Optional)
Housing	: Fireproof ABS Enclosure, SS probe
Protection	: IP65, NEMA 4X
Output Load	: $\leq 600\Omega$ (4 - 20mA), $\geq 2\text{K}\Omega$ (0 - 10VDC)
Agency Approval	: CE



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Dimensions :



Wiring Method :

Connector Type	4-20 mA Output	Voltage Output
	Pin 1 : + Excitation Pin 2 : + Output	Pin 1 : + Excitation Pin 2 : + Output Pin 3 : - Excitation/ - Output
	+ Excitation (RED) 4-20 mA Output Output (BLACK)	+ Excitation (RED) V Output + Signal (GREEN) - Excitation (BLACK)
	Pin 1 : Excitation Pin 3 : Output	Pin 1 : + Excitation Pin 3 : + Output Pin 4: - Excitation/ - Output
	Pin 1 : Excitation Pin 2 : Output	Pin 1 : + Excitation Pin 2 : + Output Pin 3: - Excitation/ - Output

HOW TO ORDER

Basic Model :

AVT4

Output :

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- 1 4 - 20mA, 0 - 10VDC
- 3 4 - 20mA, 0 - 10VDC, RS485 / Modbus

Relay Output :

0

- 0 No Relays
- 1 1 SPDT Relay