

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 and output
- * Fast Response Time



Applications:

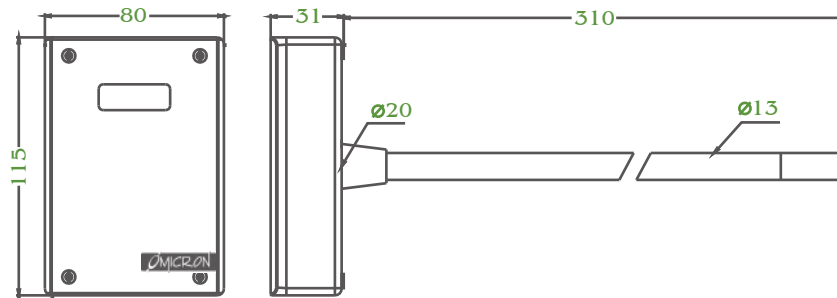
AVT1 Air Velocity Transmitters Are Used For Various Applications To Detect, Adjust And Control Air Velocity In Ventilation Measurement And Control Systems To Satisfy The Relevant Ventilation Requirements And Effectively Reduce The Energy Consumption.

Performance Specifications:

Sensor	: Thermal Hot Film Sensor
Range	: 0 - 5 / 10 / 15 / 20 m/s Jumper Settable
Output	: 4~20mA (3 wires) / 0~10VDC(3 wires)/ RS485 Modbus RTU (optional)
Power Supply	: 18 - 30VAC / VDC
Accuracy	: $\pm 0.2 \text{ m/s} \pm 3\%$ 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.	: -40 to 85°C
Temp. Accuracy	: $\pm 0.5^\circ\text{C}$
Temp. Sensitivity	: $< 0.1\% / ^\circ\text{K}$
Temp. Range	: 0 to 500 C/ 0 to 100°C/ -40 to 60°C/ -40 to 100°C
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
Calibration Protocol	: COML

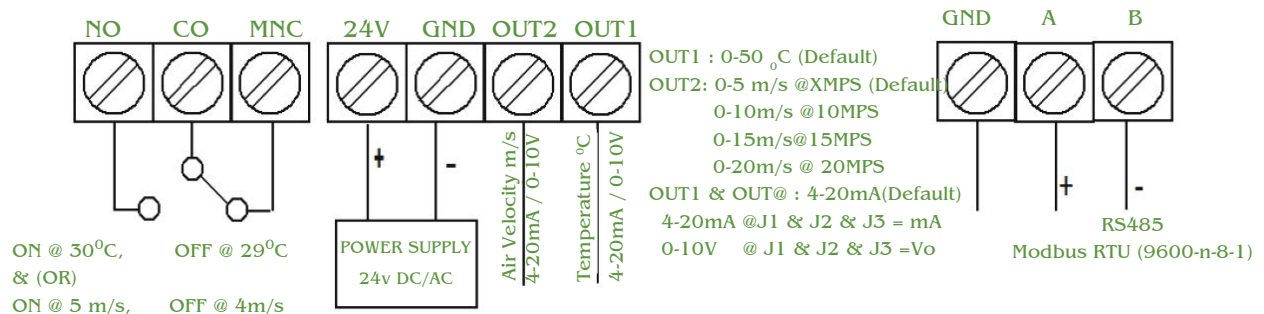
THERMAL MEASUREMENT AIR VELOCITY TRANSMITTER

Dimensions:



Wiring Method :

Different models have different electrical terminals. Please wire specific model according to the wiring diagram inside the front cover.



HOW TO ORDER

Basic Model:

AVT1

Output:

1

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

Relay Output:

0

- 0 No Relays
- 1 1 SPDT Relay

Temperature Range

1

- 0 to 50°C
- 2 -40 to 60°C
- 1 0 to 100°C
- 3 -40 to 100°C

Ordering Example : AVTI101