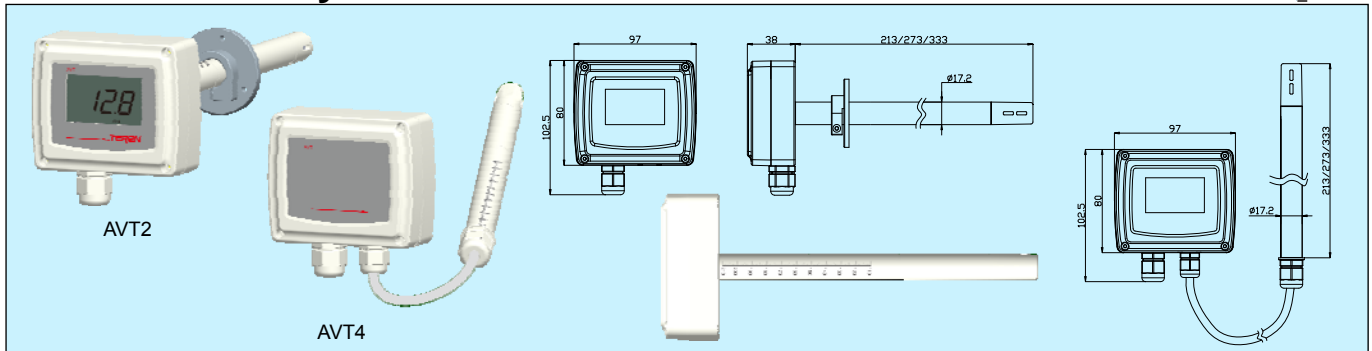# AVT Air Velocity Transmitter

AVT2

AVT4

Applications & Features

● It is designed for air velocity monitoring and controlling in the ventilation system and reducing energy consumption in BMS and various HVAC application. It is applied for single point air velocity measurement. AVT2 is for duct mount, AVT4 is for remote installation
● Based on thermal anemometer principle, use innovative and sensitive hot-film sensor, which is insensitive to dust and dirt, easy to install and maintain
● No moving parts, provide accurate, reliable, sensitive and long-term measurement, with good temp. compensation
● Digital technology applied to ensure output accuracy
● Over voltage and reverse polarity protection with high reliability and anti-interference capacity
● Multiple outputs, ranges and optional LCD display
● Innovative probe design with various lengths available with scales on

Specifications

Air velocity sensor: Hot-film sensor
Range: 0~5/10/15/20m/s or 0~16/32/48/64ft/s, jumper selectable
Accuracy: m/s:±(0.2m/s+5% reading) or ±(0.2m/s+3% reading) @0.5~20m/s; ft/s:±(0.65ft/s +5% reading) or ±(0.65ft/s +3% reading)@1.6~64ft/s 25°C, 55%RH, 1013hPa
Response time: typical 2s
Angle dependence: < 3%reading @ | Δα | < 10°

Temperature compensation: 10~40°C
Temp. output(option): range 0~50°C, accuracy <±0.5°C@25°C
Output: 4~20mA(3 wires), 0~10/0~5VDC, RS485/Modbus
Output Load: ≤500Ω(current), ≥2kΩ(voltage)
Display: LCD, with unit m/s or ft/s, DIP switch selectable
Power: 16~28VAC/16~35VDC
Working Environment: -20~70°C, 0~95%RH(Non cond.)
Housing: fire retardant PC (UL94 V-0)
**Protection:** IP65
Weight: 440g
Approval: CE

Models

Model	AVT2 AVT4				Duct mount air velocity transmitter Remote mount air velocity transmitter
Accuracy		3 5			±(0.2m/s+3% reading) ±(0.2m/s+5% reading)
Output			1 8		4~20mA/0~10V/0~5VDC RS485/Modbus
LCD Display				0 1	N/A LCD
Probe Length					1 213 mm 2 273 mm 3 333 mm

1. All products are factory set to 4-20mA as output default, and can be set to 0-10V or 0-5V by DIP switch.
2. When temperature output is needed, add suffix -T after the model number. And the output is the same as air velocity

AVTP Probe Air Velocity transmitter 🔴NEW
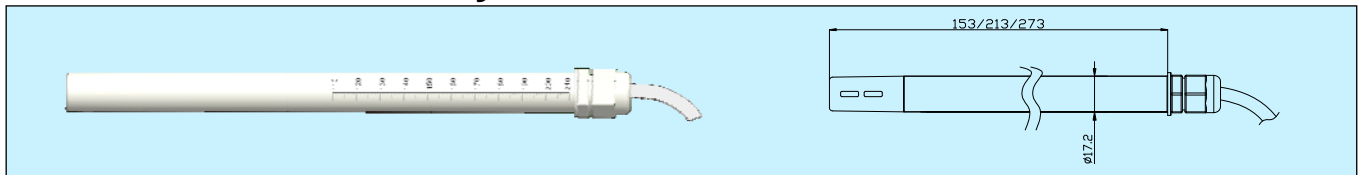
Applications & Features

● It is designed for air velocity monitoring and controlling in the ventilation system or equipment. The probe housing gives very easy, compact and flexible installations
● Based on thermal anemometer principle, use innovative and sensitive hot-film sensor, which is insensitive to dust and dirt, easy to install and maintain
● No moving parts, provide accurate, reliable, sensitive and long-term measurement, with good temp. compensation
● Digital technology applied to ensure output accuracy
● Over voltage and reverse polarity protection with high reliability and anti-interference capacity
● Innovative probe design with various lengths available with scales on

Specifications

Sensor: Hot-film sensor
Range and accuracy: 0~30m/s with different accuracy, see Models
Response time: typical 2s
Angle dependence: < 3% reading @ | Δα | < 10°
Temperature compensation: 10~40°C
Output: 0~10VDC(load≥2kΩ), RS485/Modbus

Power: 16~28VAC/16~35VDC
Electrical Connection: PVC cable, 1m
Working Environment: -20~70°C, 0~95%RH(Non cond.)
Housing: fire retardant PC (UL94 V-0)
Protection: IP65
Weight： depending on different lengths, 150g~260g
Approval: CE

Models

Model	AVTP				Probe air velocity transmitter
output		1 8			0~10VDC RS485/Modbus
Range& Accuracy			1 2 5 6 7 8		0~1 m/s, ±(0.06m/s+3%Reading) 0~2 m/s, ±(0.06m/s+3%Reading) 0~5 m/s, ±(0.2m/s+3%Reading) 0~10 m/s, ±(0.2m/s+3%Reading) 0~20 m/s, ±(0.2m/s+3%Reading) 0~30 m/s, ±(0.2m/s+3%Reading)
Probe Length				0 1 2	153 mm 213 mm 273 mm

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