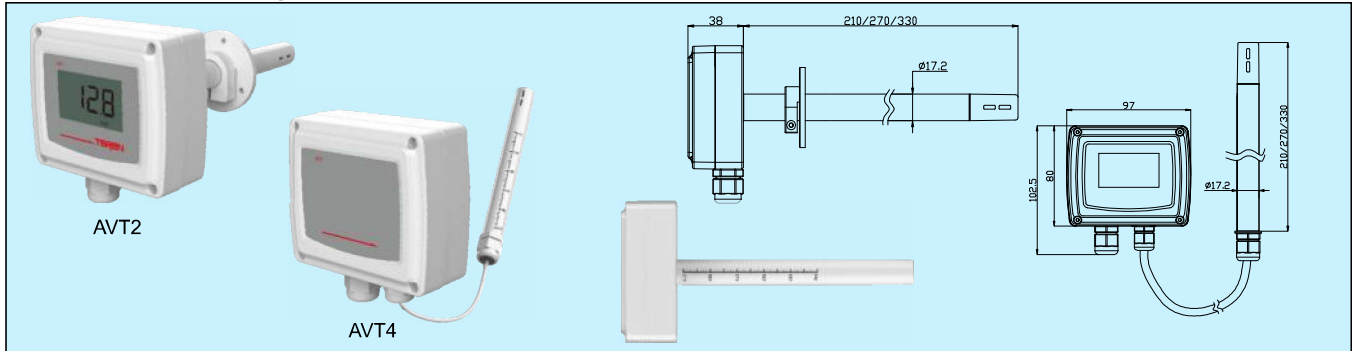


AVT Air Velocity Transmitter



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: $\pm (0.2\text{m/s}+5\% \text{ reading})$ or $\pm (0.2\text{m/s}+3\% \text{ reading})$
 @0.5~20m/s; ft/s: $\pm (0.65\text{ft/s} +5\% \text{ reading})$ or $\pm (0.65\text{ft/s} +3\% \text{ reading})$ @1.6~64ft/s 25°C, 55%RH, 1013hPa

Response time: typical 2s

Angle dependence: $< 3\% \text{ reading} @ |\Delta\alpha| < 10^\circ$

Temperature compensation: 10~40°C

Temp. output(option): range 0~50°C, accuracy $< \pm 0.5^\circ\text{C} @ 25^\circ\text{C}$

Output: 4~20mA (3 wires), 0~10/0~5VDC, RS485/Modbus

Output Load: $\leq 500\Omega$ (current), $\geq 2\text{k}\Omega$ (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

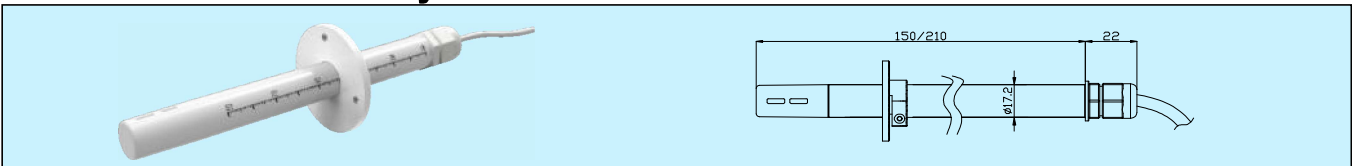
Models

Model	AVT2	AVT4			Duct mount air velocity transmitter Remote mount air velocity transmitter
Accuracy	3				$\pm (0.2\text{m/s}+3\% \text{ reading})$
	5				$\pm (0.2\text{m/s}+5\% \text{ reading})$
Output	1				4~20mA/0~10V/0~5VDC
	8				RS485/Modbus
LCD Display			0		N/A
			1		LCD
Probe Length				1	210 mm
				2	270 mm
				3	330 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



Applications & Features

- It is designed for air velocity measurement in the ventilation system or equipment. Especially for laminar flow in small cabinets in cleanroom and pharmaceutical industry
- 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: $< 3\% \text{ reading} @ |\Delta\alpha| < 10^\circ$

Temperature compensation: 10~40°C

Output: 4-20mA (3 wires), 0-10V, RS485/Modbus

Output Load: $\leq 500\Omega$ (current), $\geq 2\text{k}\Omega$ (voltage)

Power: 24V AC/DC $\pm 20\%$

Electrical Connection: PVC cable, 1m

Working Environment: -20~80°C, 0~95%RH (Non cond.)

Housing: fire retardant PC (UL94 V-0)

Protection: IP65

Weight: depending on different lengths, 130g~160g

Approval: CE

Models

Model	AVTP				Probe air velocity transmitter
output	1				0~10VDC
	2				4~20mA
	8				RS485/Modbus
Range & Accuracy			1		0~1 m/s, $\pm(0.03\text{m/s}+5\% \text{ Reading})$
			2		0~2 m/s, $\pm(0.03\text{m/s}+5\% \text{ Reading})$
			5		0~5 m/s, $\pm(0.2\text{m/s}+5\% \text{ Reading})$
			6		0~10 m/s, $\pm(0.2\text{m/s}+5\% \text{ Reading})$
			7		0~20 m/s, $\pm(0.2\text{m/s}+5\% \text{ Reading})$
			8		0~30 m/s, $\pm(0.2\text{m/s}+5\% \text{ Reading})$
Probe Length			0		150 mm
			1		210 mm