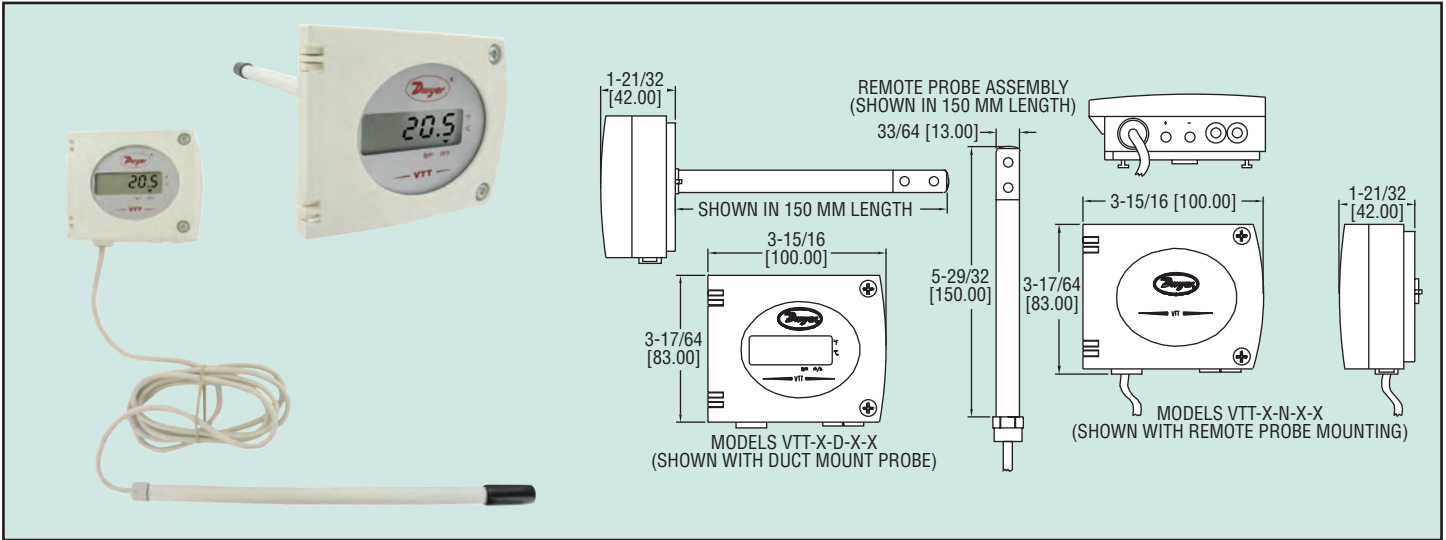




Series
VTT

Hot-Wire Air Velocity/Temperature Transmitter

Configurable Air Velocity Ranges, Available with 5 Digit Display



The Series VTT Hot-Wire Air Velocity and Temperature Transmitter provides a versatile unit for air velocity and temperature needs. The VTT offers five field-selectable ranges as well as operating in metric (m/s, °C) or english (fpm, °F) units. The VTT can measure up to 30 m/s (6000 fpm) and 50°C (122°F). The units are available with or without an LCD display which alternates between velocity and temperature. Series VTT can be ordered in duct mount or remote mount configurations with 4-20 mA or 0-10V outputs. The VTT is a useful transmitter for many common HVAC applications.

SPECIFICATIONS

- Service:** Clean air and compatible, non-combustible gases.
- Accuracy:** Air velocity: ±3% of reading ±60 fpm (±0.3 m/s); Temperature: ±0.5% of reading ±0.6°F (±0.4°C).
- Temperature Limits:** Ambient and process: 32 to 122°F (0 to 50°C); Note chart below for temperature effects on range. Storage: 14 to 158°F (-10 to 70°C).
- Power Supply:** 24 VAC/VDC (±10%) 3-4 wires.
- Current Consumption:** 4-20 mA output: 80 mA maximum; 0-10 V output: 40 mA.
- Response Time:** Air velocity: 2 seconds to 1/e (63%) of final value; Temperature: 5 seconds to 1/e (63%) of final value.
- Maximum Loop Resistance:** 4-20 mA output: 500 Ω; 0-10 V output: 1 kΩ.
- Display:** 5 digit; Resolution 1 fpm (0.1 m/s) 1.0°F (0.1°C). Alternates between velocity and temperature.
- Electrical Connection:** Screw terminal block.
- Cable Length (Remote Probe):** 6.56 ft (2 m).
- Enclosure Rating:** ABS rated NEMA 4X (IP65).
- Mounting:** Can be mounted in any orientation. Probe must be aligned with airflow. Mounting accessory included.
- Weight:** With display: 0.32 lb (145 g); Without display: 0.24 lb (110 g).
- Agency Approvals:** CE.

Field Selectable Velocity Ranges

Metric	Imperial
0 to 5m/s	0 to 1000 fpm
0 to 10m/s	0 to 2000 fpm
0 to 15m/s	0 to 3000 fpm
0 to 20m/s	0 to 4000 fpm
0 to 30m/s	0 to 6000 fpm

Model	Output	Display	Mounting	Probe Length
VTT-A-N-D-1	4-20 mA Output	No Display	Duct Mount	150 mm (6")
VTT-A-N-D-2			Remote Mount	300 mm (11.8")
VTT-A-N-R-1		5 Digit Display	Duct Mount	150 mm (6")
VTT-A-N-R-2			Remote Mount	300 mm (11.8")
VTT-A-D-D-1			Duct Mount	150 mm (6")
VTT-A-D-D-2			Remote Mount	300 mm (11.8")
VTT-V-N-D-1	0-10 V Output	No Display	Duct Mount	150 mm (6")
VTT-V-N-D-2			Remote Mount	300 mm (11.8")
VTT-V-N-R-1		5 Digit Display	Duct Mount	150 mm (6")
VTT-V-N-R-2			Remote Mount	300 mm (11.8")
VTT-V-D-D-1			Duct Mount	150 mm (6")
VTT-V-D-D-2			Remote Mount	300 mm (11.8")

Air Velocity Range Capability vs. Temperature

