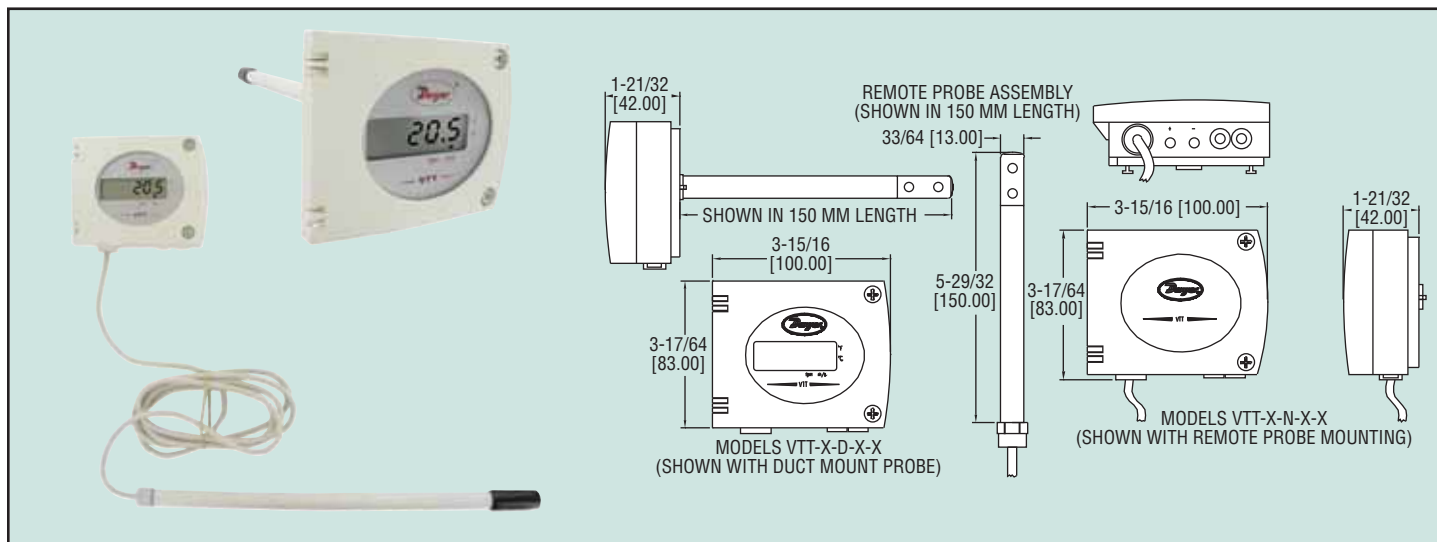**Dwyer**®

Series VTT

Hot-Wire Air Velocity/Temperature Transmitter

Configurable Air Velocity and Temperature Ranges, Available with 5 Digit Display

CE

REMOTE PROBE ASSEMBLY
(SHOWN IN 150 MM LENGTH)

1-21/32 [42.00]

33/64 [13.00]

SHOWN IN 150 MM LENGTH

3-15/16 [100.00]

3-15/16 [100.00]

1-21/32 [42.00]

5-29/32 [150.00]

3-17/64 [83.00]

3-17/64 [83.00]

MODELS VTT-X-D-X-X
(SHOWN WITH DUCT MOUNT PROBE)

MODELS VTT-X-N-X-X
(SHOWN WITH REMOTE PROBE MOUNTING)

The Series VTT Hot-Wire Air Velocity and Temperature Transmitter provides a versatile unit for air velocity and temperature needs. The VTT offers field-selectable ranges and two outputs (0-10V and 4-20mA), 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 100°C (212°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. The VTT is a useful transmitter for many common HVAC applications.

Field Selectable Temperature Ranges

Metric	Imperial
0 to 50°C	32 to 122°F
-20 to 80°C	-4 to 176°F
-50 to 50°C	-58 to 122°F
0 to 100°C	32 to 212°F

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

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: 32 to 122°F (0 to 50°C); 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.

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				300 mm (11.8˝)
VTT-A-N-R-1			Remote Mount	150 mm (6˝)
VTT-A-N-R-2				300 mm (11.8˝)
VTT-A-D-D-1		5 Digit Display	Duct Mount	150 mm (6˝)
VTT-A-D-D-2				300 mm (11.8˝)
VTT-A-D-R-1			Remote Mount	150 mm (6˝)
VTT-A-D-R-2				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				300 mm (11.8˝)
VTT-V-N-R-1			Remote Mount	150 mm (6˝)
VTT-V-N-R-2				300 mm (11.8˝)
VTT-V-D-D-1		5 Digit Display	Duct Mount	150 mm (6˝)
VTT-V-D-D-2				300 mm (11.8˝)
VTT-V-D-R-1			Remote Mount	150 mm (6˝)
VTT-V-D-R-2				300 mm (11.8˝)