

AV-DT Series

Duct Air Velocity Transmitter



Overview

The AV-DT series of air velocity transmitters is engineered for building automation in the HVAC/R industry. The AV-DT measures air velocity and temperature, with field selectable ranges and output options in a single device.

Designed with a duct mount probe and adjustable collar suitable for round or rectangular ducts. Options include a relay, and a backlit LCD available in Metric or Imperial measurements.

Applications

□ Used to measure, regulate and/or monitor airflow speed via PLC / outstation / EMS

Features & Benefits

- Converts airspeed into 4-20mA or 0-10Vdc output signal
- □ Optional Display option
- □ Available in Metric or Imperial (w/ Display)
- Optional Relay Output
- □ Selectable airflow ranges

Model Selection

AV-DTXX	Duct Air Velocity Transmitter, No Display, no Relay
AV-DTMX	Duct Air Velocity Transmitter, with Display, Metric, no Relay
AV-DTIX	Duct Air Velocity Transmitter, with Display, Imperial, no Relay
AV-DTMR	Duct Air Velocity Transmitter, with Display, Metric, with Relay
AV-DTIR	Duct Air Velocity Transmitter, with Display, Imperial, with Relay



Connecting People with Intelligent Building Solutions

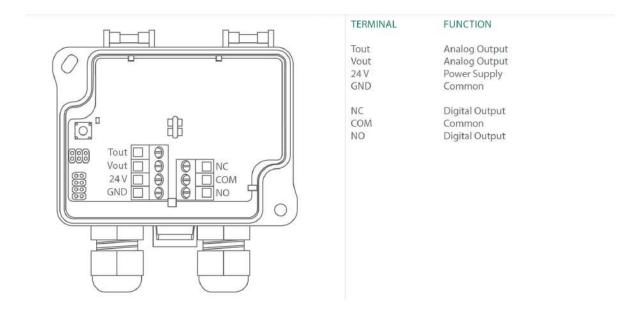
Product Specifications

Metric: Range - 02 m/s · €0.2 m/s + 5% from reading Range - 020 m/s: <0.2 m/s + 5% from reading Range - 020 m/s: <1.0 m/s + 5% from reading Range - 020 m/s: <1.0 m/s + 5% from reading Range - 0200 fpm: <10 fpm + 5% from reading Range - 02000 fpm: <100 fpm + 5% from reading Range - 02000 fpm: <100 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 f	Velocity Ranges	Base & Metric Models: 0-2, 10 & 20m/s, field selectable
Range - 010 m/s: <0.5 m/s + 5% from reading Range - 020 m/s + 1.0 m/s + 5% from reading Range - 0200 m/s: <1.0 m/s + 5% from reading Range - 0200 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <20 fpm + 5% from reading Range - 02000 fpm: <100 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <10.8 %FS / °C Calibration Units calibrated at 22 °C (71.6 °F). Rapid thermal shift stabilization time 10 min. Temperature Accuracy 0.5 °C (32 to 122 °F). O to 50 °C (32 to 122 °F) or 100 fpm; (<0.0 °F) for v > 100 fpm; (<0.0 °F) fpm; (<0.	Velocity Accuracy	Imperial Model: 0-400, 2000 & 4000 fpm, field selectable
Range - 020 m/s: <1.0 m/s + 5% from reading Imperial: Range - 0400 fpm: <100 fpm + 5% from reading Range - 0400 fpm: <100 fpm + 5% from reading Range - 04000 fpm: <100 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading Range - 04000 fpm: <200 fpm + 5% from reading ±0.8 %FS / °C Calibration Units calibrated at 22°C (71.6°F). Rapid thermal shift stabilization time 10 min. Temperature Range 0 to 50°C (32 to 122°F) Temperature Range 0 to 50°C (32 to 122°F) Temperature Range 0 to 50°C (32 to 122°F) Temperature Conditions 0 to 50°C (32 to 122°F), 0 to 95 %RH, non-condensing Storage Conditions -20 to 70°C (-4 to 158°F) Media Compatibility Dry air or non-aggressive gases Output Signal 1 (TOUT) 0-10 Vdc (linear to temperature) L min 1 K Ω 4-20 mA (linear to temperature) L max 400 Ω 4-20 mA (linear to temperature) L max 400 Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to m/s) L min 1 K Ω 4-20 mA (linear to		
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Range - 04000 fpm: <200 fpm + 5% from reading ±0.8 %FS / °C Calibration		
Thermal Shift		
Temperature Range	Thermal Shift —	
Content Consumption Con	Calibration—Units	calibrated at 22°C (71.6°F). Rapid thermal shift stabilization time 10 min.
Storage Conditions	Temperature Range———	0 to 50°C (32 to 122°F)
Storage Conditions	Temperature Accuracy——	<0.5°C for velocity >0.5 m/s (<0.9°F for v > 100 fpm)
Dry air or non-aggressive gases Output Signal 1 (TOUT)	Operating Conditions——	0 to 50°C (32 to 122°F), 0 to 95 %RH, non-condensing
Output Signal 2 (VOUT) Output Signal 3 (Signal Signal	Storage Conditions ———	-20 to 70°C (-4 to 158°F)
Output Signal 2 (VOUT) Output Signal 3 (Signal Signal	Media Compatibility ———	Dry air or non-aggressive gases
Output Signal 2 (VOUT) 0-10 Vdc (linear to m/s) L min 1K Ω 4-20 mA (linear to m/s) L min 1K Ω 4-20 mA (linear to m/s) L min 1K Ω Potential free SPDT (NC, COM, NO) 250 Vac, 6A / 30 Vdc, 6A adjustable switching point and hysteresis Power Supply 24 Vdc / 24 Vac ±10% Current Consumption Current: 75 mA (90 mA with relay) Optional Display 4 digit backlit display Optional Display 4 digit backlit display Size: 45.7mm W x 12.7mm H (1.79" x 0.5") Display Units Metric: m/s and °C Imperial: fpm and °F Alternating Velocity/Temperature in 5 second intervals Enclosure Case: ABS Cover: Polycarbonate Ratings: IP54 (NEMA 3) Probe: 304 series stainless steel Mounting Flange: LLPDP Dimensions Case: 90mm W x 71.5mm H x 36mm D (3.5" x 2.8" x 1.4") Probe: OD 10mm (0.394"), length 210mm (8.26") from bottom of cover Mounting Flange: Ø4mm (11/64") Insertion with flange Adjustable 50 to 180mm (2" to 7.08") Electrical Connections Power Supply & Signal Out: 4-screw terminal block 12'24 AWG (0.2 to 1.5mm2) Relay Out: 3-screw terminal block 12-24 AWG (0.2 to 1.5mm2) <td>Output Signal 1 (TOUT)—</td> <td></td>	Output Signal 1 (TOUT)—	
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Insertion with flange————————————————————————————————————	Mounting-	
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Relay Out: 3-screw terminal block 12-24 AWG (0.2 to 1.5mm2) Cable Entry M16 (0.625") cable gland Weight 220g (7.76oz) Approvals CE, RoHS		
Weight		
Weight	Cable Entry————	M16 (0.625") cable gland
Approvals — CE, RoHS	Weight	220g (7.76oz)
Country of Origin————Finland		CE, RoHS
	Country of Origin———	Finland



2/3 AV-DT Series

Wiring Information



Dimensions

