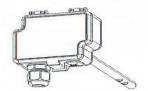


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Honeywell

Air Flow and Velocity Transmitter

HAVDTXX-EU - Installation Instructions



INTRODUCTION

The Air Flow and Velocity Transmitter series is intended for use in commercial environments. It is designed with a duct mount probe and adjustable collar suitable for round or rectangular ducts. The transmitter provides separate readings for air velocity and temperature. It comes with three measurement ranges in a single device (0–2 m/s, 0–10 m/s, 0–20 m/s).

BEFORE INSTALLATION

Read these instructions carefully before attempting to install, operate or service this device. Failure to observe safety information and comply with instructions can result in personal injury, death and/or property damage. Disconnect power before installing or servicing device and only use wiring with insulation rated for full device operating voltage. Not for use in flammable or explosive environments.

The transmitter should be mounted in an easily accessible location in a straight section of duct at least five feet from corners or other items that may cause disturbances in the air flow. Avoid areas where the detector is exposed to vibrations or rapid temperature changes.

Once a suitable location is selected, use the mounting flange as a template and mark the locations of the two screws needed to mount the transmitter. Pre-drill the holes in the duct and mount the flange with screws (not included). See Figure 1.

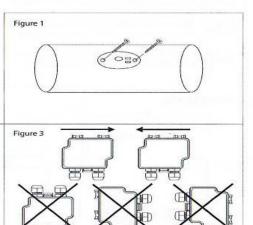
Adjust the probe to the desired depth. Ensure that the end of the probe reaches the middle of the duct. Tighten the screws on the flange to hold the probe in position. See Figure 2.

For proper mounting orientation in relation to air flow direction, see Figure 3.

For CE compliance a properly grounded shielding cable is required. Unscrew the strain relief and route the cable(s). Use the strain relief on the left for power in and signal out. Connect the wires as shown in Figure 4 and then tighten the strain relief.

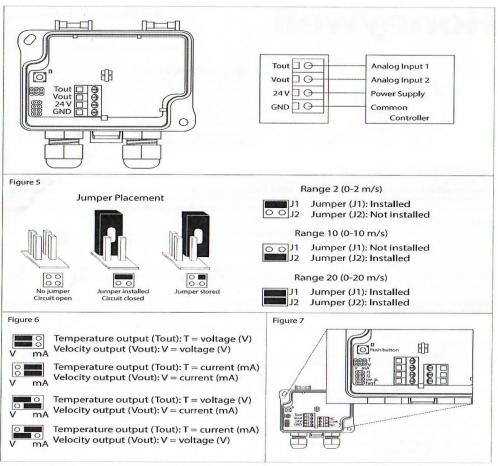
Select the desired measurement range by installing the jumpers as shown in Figure 5.

To configure the temperature output (Tout) and velocity output (Vout) select the output mode, current (mA) or voltage (V), by installing the jumpers as shown in Figure 6. Both output types are configured separately.

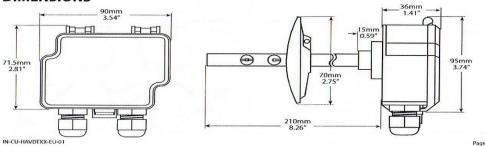


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Figure 2



DIMENSIONS



SPECIFICATIONS

SI ECH ICAHONS	
Velocity Accuracy	Range - 02 m/s: <0.2 m/s + 5% from reading
	Range - 010 m/s: <0.5 m/s + 5% from reading
	Range - 020 m/s: <1.0 m/s + 5% from reading
Thermal Shift	±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 Accuracy	< 0.5°C for velocity > 0.5 m/s (< 0.9°F for $V > 100$ fpm)
Operating Conditions	0 to 50°C (32 to 122°F), 0 to 95 %RH, non-condensing
Storage Temperature	20 to 70°C (-2 to 158°F)
Media Compatibility	Dry air or non-aggressive gases
Output Signal 1 (Tout)	0-10 V (linear to temperature) L min 1K Ω
	4-20 mA (linear to temperature) L max 200 Ω
Output Signal 2 (Vout)	0 -10 V (linear to m/s) L min 1K Ω
	4-20 mA (linear to m/s) L max 400 Ω
Power Supply	24 Vdc / 24 Vac ±10%
Current Consumption	Current: 75 mA (90 mA with relay)
	Voltage: 35 mA (90 mA with relay)
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")
	Adjustable 50 to 180mm (2 to 7.08")
Duct Width/Diameter	
Electrical Connections	. Power Supply & Signal Out: 4-screw terminal block 12-24 AWG
	(0.2-1.5mm ²)
Cable Entry	
Weight	
Approvals	
Country of Origin	. Finland