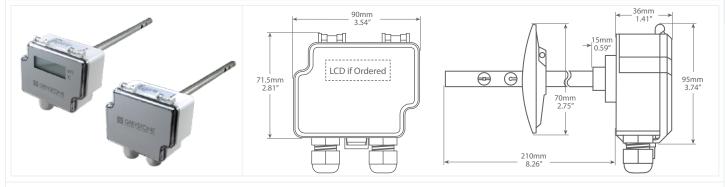


## DUCT AIR VELOCITY TRANSMITTER



#### **AVDT SERIES**

#### DESCRIPTION

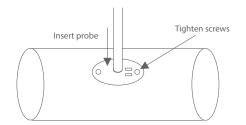
The AVDT series of air velocity transmitters is engineered for building automation in the HVAC/R industry. The AVDT measures air velocity and temperature, with field selectable ranges and output options in a single device. Designed with a duct mount probe and adjustable collar suitable for round or rectangular ducts. Options include a relay, and a backlit LCD available in Metric or Imperial measurements.

## TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

The AVDT 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.

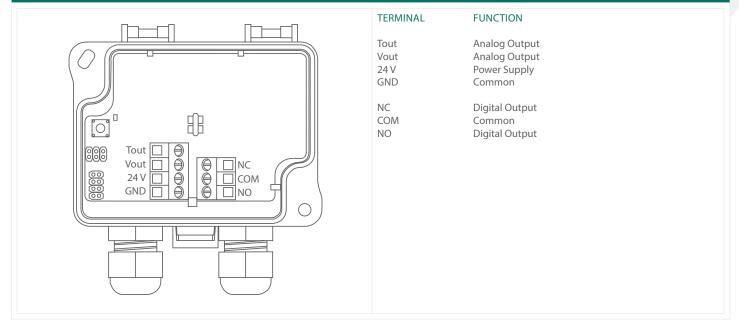
Ensure that the end of the probe reaches the middle of the duct. Tighten the screws on the flange to hold the probe in position.



SPECIFICATIONS				
VELOCITY RANGES	Base & Metric Models: 0-2, 10 & 20m/s, field selectable Imperial Model: 0-400, 2000 & 4000 fpm, field selectable			
VELOCITY ACCURACY	Metric: Range - 02 m/s: <0.2 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 (-4 to 158°F)			
MEDIA COMPATIBILITY	Dry air or non-aggressive gases			
OUTPUT SIGNAL 1 (TOUT)	0-10 Vdc (linear to temperature) L min 1K $\Omega$ 4-20 mA (linear to temperature) L max 400 $\Omega$			
OUTPUT SIGNAL 2 (VOUT)	0-10 Vdc (linear to m/s) L min 1K $\Omega$ 4-20 mA (linear to m/s) L max 400 $\Omega$			
OPTIONAL RELAY OUTPUT	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) Voltage: 35 mA (50 mA with relay)			
OPTIONAL DISPLAY	4 digit backlit display <b>Size:</b> 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	Mounting Flange: Ø4mm (11/64")			
INSERTION LENGTH WITH FLANGE	Adjustable 50 to 180mm (2" to 7.08")			
DUCT WIDTH/DIAMETER	100 to 380 mm (4" to 15")			
ELECTRICAL CONNECTIONS	Power Supply & Signal Out: 4-screw terminal block 12'24 AWG (0.2 to 1.5mm <sup>2</sup> ) Relay Out: 3-screw terminal block 12-24 AWG (0.2 to 1.5mm <sup>2</sup> )			
CABLE ENTRY	M16 (0.625") cable gland			
WEIGHT	220g (7.76oz)			
APPROVALS	CE, RoHS			
COUNTRY OF ORIGIN	Finland			



# WIRING INFORMATION



ORDERING			PART NUMBER
PRODUCT	AVDT	Duct Air Velocity Transmitter	AVDT
DISPLAY (REQUIRED IF RELAY OPTION SELECTED)	X M I	None Metric (m/s, °C) Imperial (fpm, °F)	
RELAY	X R	None Adjustable relay (requires LCD)	

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



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