

TVI-860D

AIR DIFFERENTIAL PRESSURE TRANSMITTER



Features & Applications

- Available in pressure ranges from 0.25" WC to 0 – 40 PSI.
- Stability of $\pm 0.5\%$ F.S.O.!
- Perfect for a variety of applications such as duct static, VAV, fan control, medical applications & more!
- Easy wiring via a pluggable screw terminal block!
- Customizable pressure ranges as well as customizable outputs.
- Able to handle extremely high overpressure !
- Internally conditioned allowing it to automatically accept unregulated 12-24 VDC or 24 VAC power.
- Standard 2-year warranty.

Specification

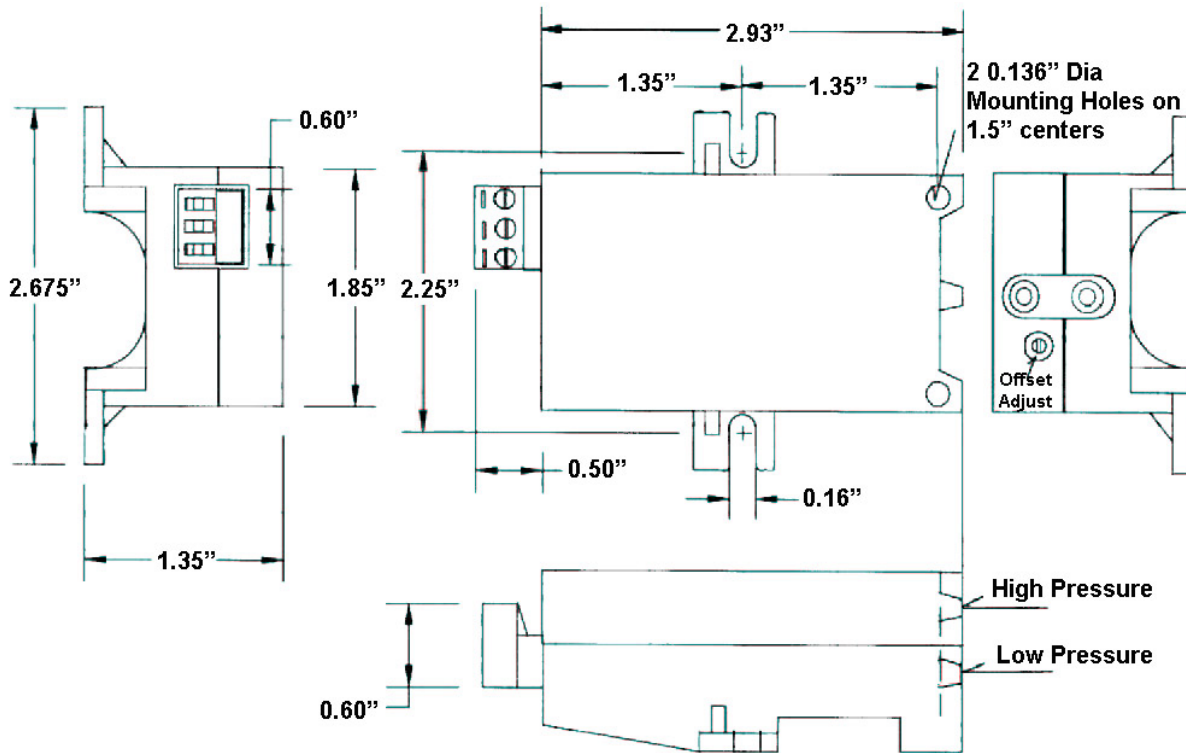
Accuracy: *	$\pm 1\%$ of F.S.O.
Stability:	$\pm 0.5\%$ F.S.O./yr.
Thermal Effects: (zero)	$\pm 0.075\%$ of F.S.O./ $^{\circ}\text{C}$
	($\pm 0.042\%$ of F.S.O./ $^{\circ}\text{F}$)
(0.5" Range)	$\pm 0.150\%$ of F.S.O./ $^{\circ}\text{C}$
	($\pm 0.083\%$ of F.S.O./ $^{\circ}\text{F}$)
Thermal Effects: (zero)	$\pm 0.005\%$ of F.S.O./ $^{\circ}\text{C}$
	($\pm 0.003\%$ of F.S.O./ $^{\circ}\text{F}$)
Overpressure:	20 PSI or 2X FSP, whichever is greater
Pressure Range:	0.25"WC to 40 PSI (see Ordering Information for details)
Compensated Range:	10 $^{\circ}$ to 50 $^{\circ}\text{C}$ (50 $^{\circ}$ to 122 $^{\circ}\text{F}$)
Media:	Limited only to media that will not attack Polyphenylene Sulfide (PPS), Polyetherimide (PEI), Silicon, or Fluorosilicone, Silicone RTV.
Operating Humidity:	90% R.H. non-condensing
Operating Temp:	-25 to 70 $^{\circ}\text{C}$ (-13 to 158 $^{\circ}\text{F}$)
Input Supply: **	12 – 24 VDC / 24 VAC**
Supply Current:	<10 mA (Voltage Output) <30mA (Current Output)
Load Resistance:	2 k Ω minimum on voltage output, 250 Ω maximum loop resistance on 4-20mA output
Output Signal:	(500 Ω max loop resistance available upon request**)
Adjustments:	1-5 VDC, 1-10 VDC** or 4-20 mA***
Electrical Connections:	Offset 60% of F.S.O. minimum
Pressure Connections:	Pluggable Screw terminal block
Housing:	Barbed fitting for 1/8" I.D. tubing Impact Resistant ABS Plastic
Dimensions:	Approx. 3.5" x 2.7" x 1.4" (8.7cm x 6.8cm x 3.5cm)

* Includes non-linearity, hysteresis, and non-repeatability at a fixed temperature.

** An input of 18 – 24VDC/AC is required to drive a 500 Ω load, the same input is also required for a 1 – 10 VDC output

*** 3 – wire, 4 – 20mA

Dimensions



Order Information

Model	Output Signal	Pressure Range		
TVI-860D Differential or Gage*	4 – 20 mA**	Standard	Low Pressure	0.5", 1", 1.25", 1.5", 2", 2.5", 3", 4", 5", 6", 8", 10", 20"WC, 250Pa, 300Pa, 600Pa, 1 PSI
			High Pressure	10kPa, 40"WC, 5 PSI, 15 PSI, 30 PSI
	Non Standard	Standard	Low Pressure	0.25"WC
			High Pressure	20 PSI, 40 PSI
	1 – 5 VDC	Standard	Low Pressure	0.5", 1", 1.25", 1.5", 2", 2.5", 3", 4", 5", 6", 8", 10", 20"WC, 250Pa, 300Pa, 600Pa, 1 PSI
			High Pressure	10kPa, 40"WC, 5 PSI, 15 PSI, 30 PSI
Non Standard		Low Pressure	0.25"WC	
		High Pressure	20 PSI, 40 PSI	
1 – 10VDC**	Standard	Low Pressure	0.5", 1", 2", 3", 4", 5", 10", 1PSI	
		High Pressure	50kPa, 15 PSI	
	Non Standard	Low Pressure	0.25", 1.25", 1.5", 2.5", 6", 8", 20"WC, 250Pa, 300Pa, 600Pa	
		High Pressure	10kPa, 40"WC, 5 PSI, 20 PSI, 30 PSI, 40 PSI	

Example: TVI-860D – (4 to 20mA) – (0 to 2"WC)

* With a gage application, one of the two ports is vented to atmosphere.

** With a 1 to 10VDC output as well as with a 4 to 20mA output that needs to drive a 500Ω load a 18-24 VDC / 24 VAC input is required.