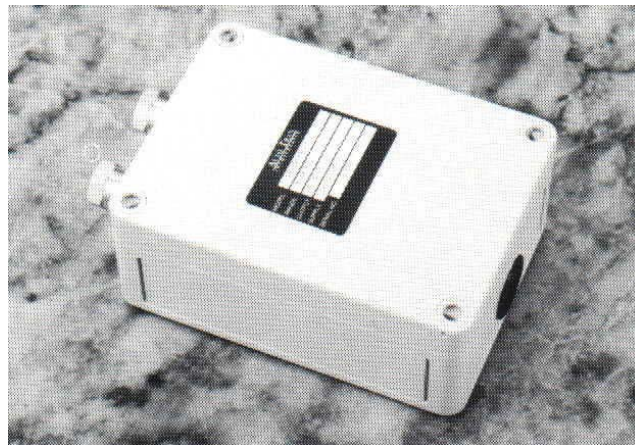


Gage and Differential Pressure with Wet and Wet-to-Wet Media Compatibility NEMA 4 Enclosure, Stainless Steel Wetted



APPLICATIONS

- Chiller Systems
- Refrigerant Systems
- Boilers
- Level Monitoring
- Pumps and Compressors

The TVI-560D Series Pressure Transducer is ideally suited for use with any harsh media, wet or dry, that is compatible with series 300 stainless steel. Examples of media the TVI-560D can be used with include water, hydraulic fluids, freon, ammonia, refrigerant, and steam. Built for remote installation, the TVI-560D is a rugged unit housed in a splash proof, dust proof NEMA 4 enclosure. The TVI-560D is available in both gage and differential versions and can be customized to any user specified pressure range from 0/3 PSI to 0/500 PSI. To ensure quick delivery, standard pressure ranges for the TVI-560D are stocked. Custom pressure ranges are available at no additional charge with slightly longer lead times. The 560 is internally conditioned allowing it to automatically accept unregulated 24 VDC or 24 VAC power without field adjustment. Both voltage and current outputs are offered.

Utilizing silicon piezoresistive sensing elements with stainless steel media isolation, the TVI-560D is a highly stable device capable of handling overpressure situations. Pressure applied to the silicon diaphragm within the TVI-560D causes it to deflect thus changing the sensing bridge resistance. This change in resistance results in a current or voltage change proportional to the applied pressure. To ensure an accurate linear analog output, the TVI-560 contains circuitry to provide signal conditioning and temperature compensation as an integral part of the device. The TVI-560D is calibrated to NIST-traceable standards.

SPECIFICATION:

Pressure Range:	0-3 to 0-500 PSI
Accuracy:*	+/- 1% F.S.O.
Stability:	< 1 % F.S.O. within compensated range
Thermal Effects:	< 1 % F.S.O. within compensated range
Overpressure:	2 times F.S.O. or 700 PSI, whichever is less
Compensated Range:	0 to 50°C (32 to 122 °F)
Operating Temp:	-25 to 70°C (-13 to 158 °F)
Media:	Any media, wet or dry, compatible with series 300 stainless steel
Maximum Operating Humidity:	90% RH, Non-Condensing
Input Supply:	24 VDC/24 VAC
Supply Current:	35mA
Load Resistance (Voltage Output):	2kΩ minimum
Load Resistance (Current Output):	700Ω, maximum loop resistance
Output Signal:	0-5 VDC, 0-10 VDC or 4-20mA
Adjustments:	Zero and Span. 10% of F.S.O. minimum adjustment
Electrical Connections:	Internal screw terminals
Housing:	NEMA 4 enclosure
Connections:	1/8" NPT Female
Weight:	16.01 oz (454 grams)
Dimensions:	5.12" x 3.70" x 2.24" (13.00cm x 9.40cm x 5.7cm)

* Includes non-linearity, hysteresis, and non-repeatability

HOW TO ORDER

A typical order number consists of the model number, type, pressure range input supply, and output signal.

<u>Model</u>	<u>Type</u>	<u>Pressure Range</u>	<u>Input Supply</u>	<u>Output Signal</u>
TVI-560D	D=Differential G=Gage	User desired range from 0/3 PSI to 0/500 PSI	24V = 24 VDC / 24 VAC	5 = 0-5 VDC/ 10 = 0-10 VDC 20 = 4-20 mA

Example: TVI-560D 30 PSI 24V 20 (Model number 560, differential type unit, pressure range of 0-30 PSI, input supply of 24VAC/DC, output signal of 4-20 mA)