

P141



Heavy Duty Pressure Transmitter

Precision Grade- For Harsh Environments

Designed for the hazardous locations

P141 Pressure Transmitter is designed for use in hazardous locations. *The entirely welded 316LSST construction is hermetically sealed.*

Manufactured for reliable service in aggressive environments

The P141 is manufactured for reliability in aggressive environments where other transmitters fail. Automated weld procedures, extreme environmental burn in, and the mounting of electronics to withstand the most severe shock and vibration applications assure safety and reliability. *Additional EMI/RFI filtering with surge protection add to the performance of the P141.*

Alternate materials for service in corrosive environments

For corrosive environments where 316L or 15-5 SS are not best suited, the P141 is available in Hastelloy C276, C22 or Inconel 718.

Certification

Each P141 transmitter is shipped with a NIST traceable calibration certificate.

CE

Conforms to EN50081-2 and EN50082-2

Standard Features

*Hermetically Sealed Package
±0.25% FSO Static Accuracy
0-3 psi through 0-15,000 psi*

Available Options

*±0.1% FSO Static Accuracy
±0.5% FSO Thermal Error Band
Hastelloy or Inconel alt. materials
Low Power*

Low Cost

Possible Switch Replacement



Note: specifications are subject to change.



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P141 Pressure Transmitter



Designed for Hazardous Locations
0-3 psi through 0-15,000 psi

Product Specifications

Electrical

Excitation	
P141A, P141B	8-38 Vdc*
P141C	2-15 Vdc
Output	
P141A	4-20 mA
P141B	0-5 Vdc*
P141C	1-2 mV/V*
Zero Balance	=± 1% FSO
FSO Setting	=± 1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	
P141A, P141B	< 5 mS
P141C	< 1 mS
Insulation Resistance	1000 MO @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	=±.002% FSO per V input (P141A, P141B)
EMI/RFI	Internal Filtering (P141A, P141B)
Short Circuit Protected	Up to 40 Vdc (P141A, P141B)

Performance

Static Accuracy	=±0.25% FSO* (BFSL, RSS)* <small>(combined effects of non-linearity, hysteresis & repeatability)</small>
Repeatability	=±0.05% FSO
Temperature Effects	=±1.5% FSO over comp range* <small>(combined effects of Zero & FSO with reference at 70°F)</small>
Long Term Stability	=±0.25% FSO per year

Note: specifications are subject to change.

Mechanical

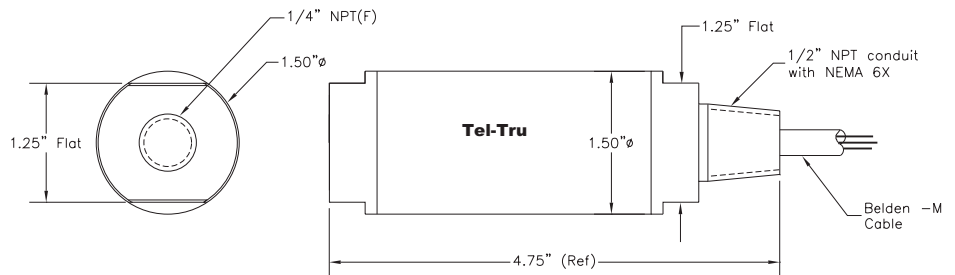
Pressure Ranges	0-3 through 0-15,000 psi <small>(Customer may specify any range/eng. unit FOC) (Absolute, vacuum, compound available options)</small>
Proof Pressure	2X Full Scale*
Burst Pressure	5X Full Scale*
Materials	
Wetted Parts*	316 & 15-5 SST*
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	1/4" NPT Female*
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	per outline below
Weight	nominal 15 oz.

Environmental

Compensated Temp Range	0 to 170°F
Operating Temp Range	-40 to 200°F
Storage Temp Range	-40 to 250°F

* Options available

Drawing



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