

P141



Heavy Duty Pressure Transmitter

Precision Grade--For Harsh Environments

Designed for 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

Low Cost

Possible Switch Replacement



Standard Features

Hermetically Sealed Package
 $\pm 0.25\%$ FSO Static Accuracy
0-3 psi through 0-15,000 psi

Available Options

$\pm 0.1\%$ FSO Static Accuracy
 $\pm 0.5\%$ FSO Thermal Error Band
Hastelloy or Inconel alt. materials
Low power

Note: specifications are subject to change.



Tel-Tru Manufacturing Co.
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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 $\pm 1\%$ FSO

FSO Setting $\pm 1\%$ FSO

Resolution Infinite ($\pm 0.001\%$ 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 $\pm 0.02\%$ FSO per V input (P141A, P141B)

EMI/RFI Internal Filtering (P141A, P141B)

Short Circuit Protected Up to 40 Vdc (P141A, P141B)

Performance

Static Accuracy $\pm 0.25\%$ FSO* (BFSL, RSS)*
(combined effects of non-linearity, hysteresis & repeatability)

Repeatability $\pm 0.05\%$ FSO

Temperature Effects $\pm 1.5\%$ FSO over comp range*
(combined effects of Zero & FSO with reference at 70 °F)

Long Term Stability $\pm 0.25\%$ FSO per year

Mechanical

Pressure Ranges 0-3 through 0-15,000 psi

(Customer may specify any range/eng. unit FOC)
(Absolute, vacuum, compound available options)

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 with 24" of cable*

Dimensions per outline below

Weight nominal 15 oz

Environmental

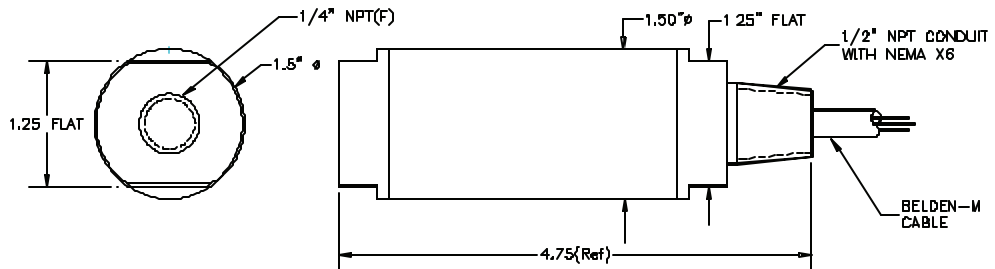
Compensated Temp Range 0 to 170 °F

Operating Temp Range -40 to 200 °F

Storage Temp Range -40 to 250 °F

Drawing

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