# 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

Note: specifications are subject to change.



Tel-Tru Manufacturing Co. 408 St. Paul Street Rochester, New York 14605 USA Phone: 585-232-1440 • 800-232-4

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# P141 Pressure Transmitter

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



# **Product Specifications**

Mechanical .

Electrical

2-15 Vdc

4-20 mA

0-5 Vdc\*

1-2 mV/V\*

=± 1% FSO

=± 1% FSO

P141A, P141B 8-38 Vdc\*

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

(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 (24" cable)\*

Dimensions

per outline below

Weight

nominal 15 oz.

Resolution Response Time

Zero Balance

**FSO Setting** 

Excitation

Output

P141C

P141A

P141B

P141C

P141A, P141B < 5 mS

P141C  $< 1 \, \text{mS}$ 

1000 MO @ 50 Vdc Insulation Resistance

Reverse Polarity Protected

Warm-up < 10 mS

Power Supply Effect =±.002% FSO per V input (P141A, P141B)

EMI/RFI

Internal Filtering (P141A, P141B)

Infinite (±.001% FSO usable)

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

Environmental

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

Storage Temp Range -40 to 250°F

\* Options available

## Performance

Static Accuracy =±0.25% FSO\* (BFSL, RSS)\*

(combined effects of non-linearity, hysteresis & repeatability)

Repeatability  $=\pm 0.05\%$  FSO

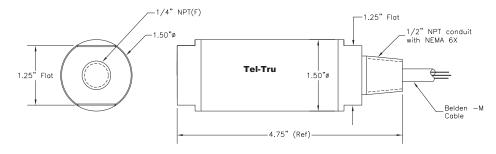
Temperature Effects = $\pm 1.5\%$  FSO over comp range\*

(combined effects of Zero & FSO with reference at 70°F)

Long Term Stability =±0.25% FSO per year

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Drawing -





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# TEL-TRU PRESSURE TRANSMITTERS

Threaded Series Models P141 and 143

## **HOW TO ORDER EXAMPLE:**

Precision Grade Rugged, 4-20 mA, 0.25% Accuracy, 0 to 100 psi, Gauge Pressure, 1/4" NPT Male, 2 ft. Wire Pigtail (NEMA 4X), Zero and span controls

