

TEL-TRU MANUFACTURING CO.

P143 Explosion Proof Pressure Transmitter

Certified for Hazardous Locations

Approved for hazardous locations

The P143 Pressure Transmitter is designed and approved for use in hazardous locations. The P143's entirely welded 316L SST construction is hermetically sealed making it ideal for the worst of pressure applications. CSA/CUS Explosion Proof certified for Class I Div 1 and Class I Div 2 Groups A, B, C, D.

Manufactured for reliable service in aggressive environments

The P143 is manufactured for reliability in aggressive environments where other transmitters fail. Automated weld procedures, extreme environmental burn in, and the mounting of our electronics to withstand the most severe shock and vibration applications are all geared toward safety and reliability. Additional EMI/RFI filtering with surge protection add to the performance of the P143.

Alternate materials for service in corrosive environments

For corrosive environments where 316L or 15-5 SST are not best suited, the P143 is available in Hasteloy C276, C22 or Inconel 718.

NIST

Each P143 transmitter is shipped with a NIST traceable calibration certificate.

Standard Features

Hermetically Sealed Package ±0.25% FSO Static Accuracy 0-100 psi through 0-20,000 psi

Available Options

±0.1% FSO Static Accuracy ±0.5% FSO Thermal Error Band Hasteloy or Inconel alt. materials Low power

mV/V, Vdc, mAdc outputs available



SST, Hasteloy, or Inconel wetted parts





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P143 Explosion Proof Pressure Transmitter

0-100 psi through 0-25,000 psi Low-Cost Explosion Proof Process Transmitter

Product Specifications

Electrical			Mechanical ————————————————————	
Excitation			Pressure Ranges	0-100 psi through 0-25,000 psi
Output	P143C P143A & P143B	2-15 Vdc 8-38 Vdc*	(Customer may specit (Absolute, vacuum, c Proof Pressure	fy any range/eng. unit FOC) ompound available options) 2X Full Scale*
·	P143C P143B P143A	1-2mV/V* 0-5 Vdc* 4-20 mAdc	Burst Pressure Materials Wetted Parts* Non-wetted Parts	5X Full Scale* 316 & 15-5 SST* 316 SST plus electrical connector*
Zero Balance FSO Setting Resolution Response Time P143C		±1% FSO ±1% FSO Infinite (±.001% FSO usable) <1mS	Pressure Port Electrical Connector Dimensions Weight	¹ ⁄ ₄ "-NPT Female [*] NEMA 4X cable exit with 24" of cable [*] per outline below nominal 15 oz
P143A & P143B Insulation Resistance Reverse Polarity Warm-up Power Supply Effect (P143A & P143B) EMI/PEI		< 5 mS 1000 M Ω @ 50 Vdc Protected < 10 mS ±.002% FSO per V input	Environmental Compensated Temp Range Operating Temp Range Storage Temp Range	e 0 to 170 °F -40 to 200 °F -40 to 250 °F
Short Circuit Protected		Up to 40 Vdc (P143A & P143B)	Static Accuracy (combined effects of	±0.25% FSO* (BFSL, RSS)* non-linearity, hysteresis & repeatability)

Certifications

Red

P143A 4-20 mAdc 2 Wire

CSA/CUS Explosion Proof Class I Div 1 Groups A, B, C, D CSA/CUS Explosion Proof Class I Div 2 Groups A, B, C, D Master Contract Number: 236039 Certificate Number: 1815757

* Options Available

Repeatability

Temperature Effects

Long Term Stabily

±0.1% FSO

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

±1.5% FSO over comp range*

±0.25% FSO per year



Black