

# P121



## Threaded Pressure Transmitter

*Precision Grade--  
Compact, Ruggedized, NEMA 4X Package*

### Designed for performance/cost at single piece quantities

The P121 Pressure Transmitter is designed to provide our customers with an economical solution to their industrial pressure measurement needs. **Key feature of the all welded sensing element is its isolation from induced stresses such as mounting torque, thermal excursions, and vibration and shock.** The P121 is configurable (from single piece orders to large volumes) to meet customers' needs without sacrificing delivery or large increases in price.

### Manufactured for extended life cycle

The P121 is designed to last in high cyclical environments with or without the presence of waterhammering or spiking. Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the P121 maintains its performance over time.

### Ruggedized NEMA 4X packaging

Every Tel-Tru P121 is rated to NEMA 4X standards regardless of the output (mVdc, Vdc, or mAdc) or pressure format (gage, absolute, or vacuum). Pressure ranges are available from 0-3 psig through 0-15,000 psig.

### Certification

Each transmitter is delivered with a NIST traceable calibration certificate.

### CE

Conforms to EN50081-2 and EN50082-2

*Gage,  
Absolute,  
Vacuum,  
Formats*



### Standard Features

- $\pm 0.25\%$  FSO Static Accuracy
- NEMA 4X Packaging
- $\pm 0.25\%$  FSO /YR stability

### Available Options

- $\pm 0.1\%$  FSO Static Accuracy
- Alternate Wetted Materials
- Zero/Span Controls/ Shunt Cal

Note: specifications are subject to change.



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# P121 Pressure Transmitter



NEMA 4X for harsh environments  
0-3 through 0-15,000 psi

## Product Specifications

### Electrical

Excitation	
P121A,P121B	8-38 Vdc*
P121C	2-15 Vdc
Output	
P121A	4-20 mA
P121B	0-5 Vdc*
P121C	1-2 mV/V*
Zero Balance	= ±1% FSO
FSO Setting	= ±1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	
P121A,P121B	< 5 mS
P121C	< 1mS
Insulation Resistance	1000 MO @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	= ±.002% FSO per V input (P121A,P121B)
EMI/RFI	Internal Filtering (P121A,P121B)
Short Circuit Protected	Up to 40 Vdc (P121A,P121B)

### 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	¼" -NPT Male*
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	per outline below
Weight	nominal 10 oz

### Performance

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

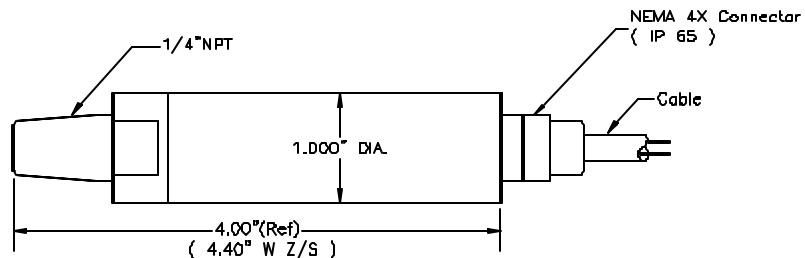
### Environmental

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

### \* Options Available

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### Outline



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