

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.



Tel-Tru Manufacturing Co.
408 St. Paul Street
Rochester, New York 14605 USA
Phone: 585-232-1440 • 800-232-5335 • Fax: 585-232-3857 • E-mail: info@teltru.com • Web: www.teltru.com

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

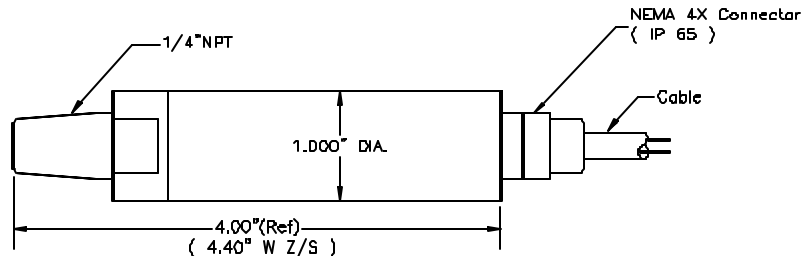
Environmental

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

* Options Available

Outline

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