Sanitary Pressure Transmitter



Precision Grade-Tri-Clamp or Cherry-Burrell Fittings

Designed for the sanitary markets

Tel-Tru's P321 Series is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price. *Key feature of the all welded sensing element is its isolation from induced stresses.* This results in negligible zero and span offsets due to the installation clamping force effects. This product is modular and is configurable to meet our customers' exact needs.

Manufactured for reliability in clean-in-place and wash-down areas

The P321 is built using advanced manufacturing techniques, with automated welding procedures, extreme environmental burn-in and thorough residual stress relieving techniques. The P321 NEMA 4X packaging ensures reliable service in the wash-down environments of the sanitary industry regardless of signal output or pressure format.

"Backed-up" sensing diaphragm

Every P321 sensing diaphragm is "backed-up" with a solid piece of stainless steel which greatly improves the resistance to sharp objects and overpressure.

Certification

Every P321 is shipped with a NIST traceable calibration certificate.

CE

Conforms to EN50081-2 and EN50082-2

For CIP and Wash-Down Areas



Clamp Sizes from 1" to 3"

Standard Features

=±0.25% FSO Static Accuracy NEMA 4X Packaging Meets 3-A Sanitary Standard 74-06 requirements

Available Options

=±0.1% FSO Static Accuracy Alternate Wetted Materials 1/2"-NPT Conduit Fitting

Note: specifications are subject to change.



Tel-Tru Manufacturing Co. 408 St. Paul Street Rochester, New York 14605 USA

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P321

Precision Grade Sanitary 0-3 through 0-1,000 psi



Product Specifications

Electrical

Excitation 8-38 Vdc*

Output

Resolution Infinite (±.001% FSO usable)

Response Time < 5 ms

Insulation Resistance 1000 MO @ 50 Vdc

Reverse Polarity Protected Warm-up < 10 ms

Power Supply Effect =±.002% FSO per V input

EMI/RFI Internal Filtering Short Circuit Protected Up to 40 Vdc Mechanical _

Pressure Ranges 0-3 through 0-1,000 psi

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

Proof Pressure 2X Full Scale*

Burst Pressure 5X Full Scale* (Max 3,000 psi)

Materials

Wetted Parts* 316L SS

Non-wetted Parts 316 SS plus electrical connector*

Pressure Port 2" - Tri-Clamp

Electrical Connector NEMA 4X cable exit (24" cable)*

Dimensions per outline below Weight nominal 10 oz.

Environmental

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

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*

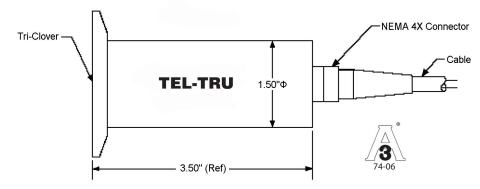
(combined effects of Zero & FSO with reference at 70°F)

Long Term Stability =±0.25% FSO per year

*Options Available

Note: specifications are subject to change.

Outline _





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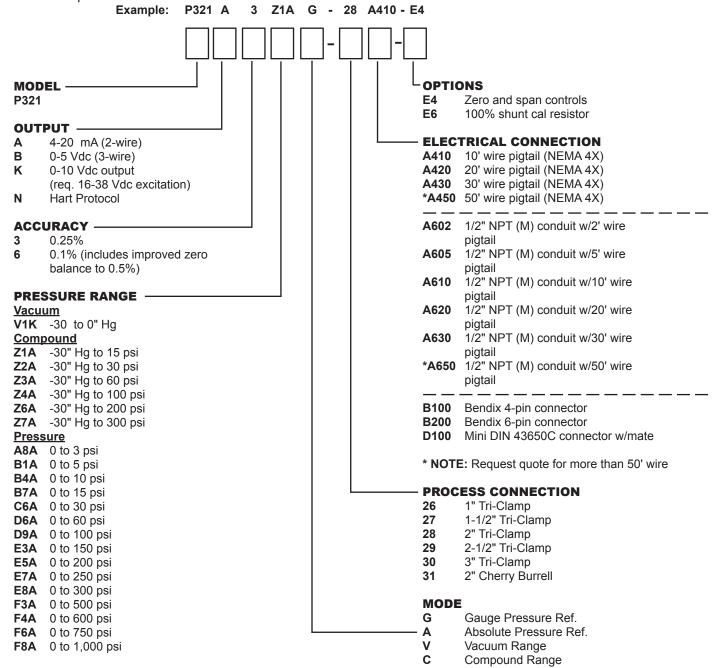
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TEL-TRU PRESSURE TRANSMITTERS

Sanitary Series Model P321

HOW TO ORDER EXAMPLE:

Sanitary, 4-20 mA, 0.25% Accuracy, -30" Hg to 15 psi, Gauge Pressure, 2" Tri-Clamp, 10 ft. Wire Pigtail (NEMA 4X), Zero and span controls



PRICES INCLUDE:

· Certificate of Calibration (directly traceable to NIST)

IMPORTANT NOTE:

Available Upon Request--Additional Options (consult factory):

- · Process Connections
- Electrical Connections and more than 50' wire
- Pressure Ranges/Unit of Measure