# P221

## Flush Diaphragm Pressure Transmitter

### Precision Grade--"Non-Filled" Flush Diaphragm Sensor

#### Designed for the highest system integrity

Tel-Tru's P221 Pressure Transmitter is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price. *Key feature of the P221 is its non oil –filled sensing element. The sensing diaphragm is machined from a solid piece of steel, and can withstand the most abrasive / cyclical applications. No thin diaphragm to break, to oil or to leak.* 

#### Manufactured for extended life cycle

The P221 is designed to last in high cyclical environments with or without the presence of water-hammering or spiking. Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the P221 maintains its performance over time.

#### **Designed to meet Intrinsically Safe standards**

The P221 is designed to meet or exceed the standards for IS. FM/CSA approvals are pending.

#### Certification

Every P221 is shipped with a NIST traceable calibration certificate.

CE Conforms to EN50081-2 and EN50082-2

#### Standard Features

 $\pm$  =0.5% FSO Static Accuracy NEMA 4X Packaging  $\pm$  =0.25% FSO /YR stability

#### Available Options

 $\pm = 0.25\%$  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





## P221 Pressure Transmitter

## Precision Grade Flush Diaphragm 0-100 psi through 0-7,500 psi



### Product Specifications

Electrical		Mechanical ———	
Excitation P221A, P221B	8-38 Vdc*	Pressure Ranges 0 (Customer may specify al (Absolute, vacuum, comp	
P221C	2-15 Vdc		X Full Scale*
Output		Burst Pressure 5	X Full Scale* (15k psi max)
P221A	4-20 mA	Materials	
P221B	0-5 Vdc*	Wetted Parts* 1	5-5 SST*
P221C	1-2 mV/V*	Non-wetted Parts 3	16 SST plus electrical connector*
Zero Balance	$=\pm1\%$ FSO		4-16 UNF Flush with 'O'-Ring*
FSO Setting	$=\pm1\%$ FSO		IEMA 4X cab le exit (24″ cable)*
Resolution	Infinite (±.001% FSO usable)		per outline below
Response Time			ominal 10 oz
P221A, P221B	< 3 mS		
P221C	< 0.5 mS		
Insulation Resistance	1000 MO @ 50 Vdc		
Reverse Polarity	Protected		
Warm-up	< 10 mS		
Power Supply Effect	= ±.002% FSO per V input (P221A, P221B)		
EMI/RFI	Internal Filtering (P221A, P221B)	Environmental ———	
Short Circuit Protected	Up to 40 Vdc (P221A, P221B)		
——————————————————————————————————————		Compensated Temp Rar Operating Temp Range	nge 0 to 170 ∘F -40 to 200 ∘F
1.61	loimanee	Storage Temp Range	-40 to 250 °F
Static Accuracy (combined effects of non-li	$=\pm 0.5\%$ FSO* (BFSL, RSS)* nearity, hysteresis & repeatability)		
Repeatability $= \pm 0.1\%$ FSO		* Options Ava	ilable
	$= \pm 1.5\%$ FSO over comp range* & FSO with reference at 70°F)	,	
Long Term Stability	$=\pm 0.25\%$ FSO per year		
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Note: specifications are subject	ct to change. O'RING-	_	
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