

P151



Mid-High Pressure Transmitter

*Precision Grade--
Up to 60,000 psi Pressure Measurement*

Designed for measurement of high pressure

Tel-Tru's P151 is designed for the OEM or end user where ruggedness, high performance, and reliability are required at a competitive price. **Key feature of the all welded sensing element is its small size, which greatly reduces the amount of force exerted by high pressure.** This feature makes the P151 ideal for high-cyclical / high pressure applications.

Designed for high cycles

Manufactured for extended life cycle

The P151 is built using advanced manufacturing techniques, with automated weld procedures, extreme environmental burn-in and thorough residual stress relieving techniques. The P151 is modular and configurable to meet customers' exact requirements.

Ruggedized NEMA 4X packaging

Every Tel-Tru P151 is rated to NEMA 4X standards regardless of pressure range or format. Pressure ranges are available from 0-20,000 psi through 0-60,000 psi.

Certification

Every P151 is shipped with a NIST traceable calibration certificate.

CE

Conforms to EN50081-2 and EN50082-2



NEMA 4X

Standard Features

- = ±0.5% FSO Static Accuracy*
- NEMA 4X Packaging*
- = ±0.25% FSO/YR Stability*

Available Options

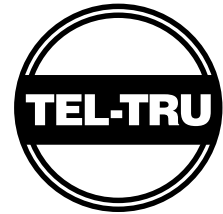
- = ±0.25% or 0.1% FSO Static Accuracy*
- F-312C pressure port*
- Zero/Span Controls with Cal*

Note: specifications are subject to change.



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P151 Pressure Transmitter



Mid-High Pressure Transmitter

0-20,000 psi through 0-60,000 psi

Product Specifications

Electrical

Excitation	
P151A, P151B	8-38 Vdc*
P151C	2-15 Vdc*
Output	
P151A	4-20 mA
P151B	0-5 Vdc*
P151C	1-2 mV/V*
Zero Balance	= ±1% FSO
FSO Setting	= ±1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	
P151A,P151B	< 5 mS
P151C	< 1 mS
Insulation Resistance	1000 MO @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	= ±.002% FSO per V input (P151A, P151B)
EMI/RFI	Internal Filtering (P151A, P151B)
Short Circuit Protected	Up to 40 Vdc (P151A, P151B)

Performance

Static Accuracy	= ±0.5% FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis & repeatability)
Repeatability	= ±0.1% 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

Note: specifications are subject to change.

Mechanical

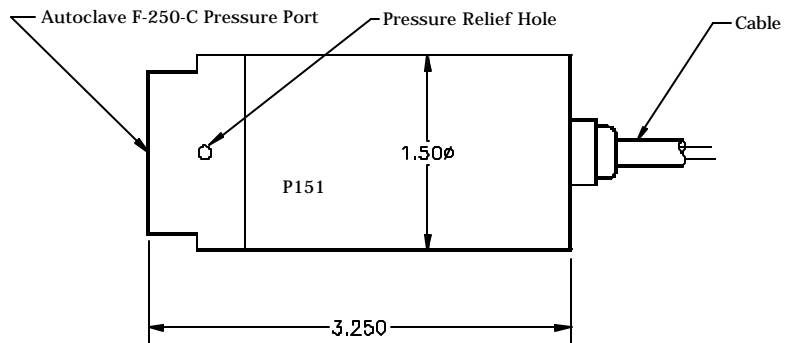
Pressure Ranges	0-20,000 through 0-60,000 psi (Customer may specify any range/eng. unit FOC)
Proof Pressure	2X Full Scale* (max 75k psi)
Burst Pressure	3X Full Scale* (max 90k psi)
Materials	
Wetted Parts	15-5 SST
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	Autoclave F-250C*
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	per outline below
Weight	nominal 12 oz

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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