

TEL-TRU MANUFACTURING CO.

P531 Differential Pressure Transmitter

High Line/Low Differential Pressure Measurement

Designed for High Static/Low DP applications

The P531 differential pressure transmitter is designed for End Users and OEMs where high overpressure protection (1000 psi) ruggedness, high performance, and reliability are required at a competitive price. This product is modular and is configurable to meet our customers' exact needs.

Manufactured for extended life cycle

Every P531 is built using advanced manufacturing techniques to ensure symmetry between the HI and LO ports. Symmetry, along with automated welding procedures and extreme environmental burn-in, give Tel-Tru's differential pressure products excellent performance and reliability over time and at high elevated line pressure.

Entirely welded 316L SS pressure cavities

The P531 pressure port's all welded 316 SS 'O'-Ring free design makes it ideal for high cyclical applications, capillary filled systems, or applications where a guaranteed leak free system is needed.

Standard Features

Ranges from 5" H_2O through 30 psi 1,000 psi over-pressure protection either side 316L SS wetted parts Stability less than \pm 0.25% per annum

Available Options

Line pressure / overpressure to 2,000 psi All Hasteloy C-276 wetted parts (available to NACE) Accuracy to $\pm 0.1\%$ FSO Low power consumption (less than 2 mA)



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Variable Capacitance Technology

P531 Differential Pressure Transmitter

High Line/Low Differential Pressure Measurement 0-5" H₂O through 0-100 psid

Product Specifications

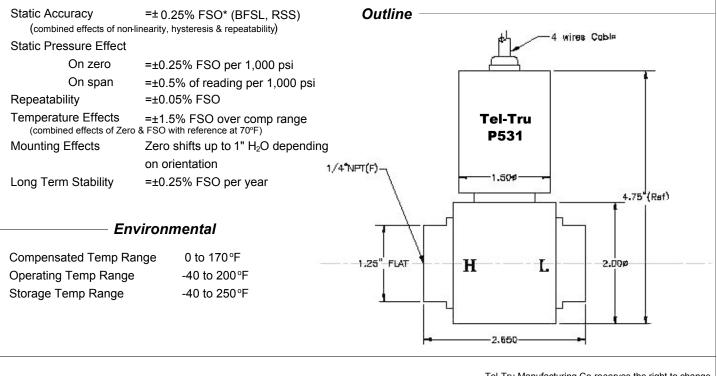
Electrical	
Excitation	8-38 Vdc*
Output	
P531B	0-5 Vdc*
P531A	4-20 mAdc
Zero Balance	=± 1% FSO
FSO Setting	=± 1% FSO
Resolution	Infinite (±.001 % FSO usable)
Response Time	< 10 mS
Insulation Resistance	1000 MΩ @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	=±.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc

Mechanical

Pressure Ranges (Customer m	0-5" H_2O through 0-100 psid ay specify any range/eng. unit FOC)
Line Pressure	1,000 psi
Proof Pressure	1,000 psi (either port)
Burst Pressure	3,000 psi
Materials	
Wetted Parts*	316L SS
Non-wetted Parts	316L SS plus electrical connector
Pressure Port*	1/4"-NPT Female
Electrical Connector*	NEMA 4X cable exit with 24" cable
Dimensions	per outline below
Weight	18 oz

* Options available

Performance



Tel-Tru Manufacturing Co.reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.

TEL-TRU PRESSURE TRANSMITTERS

Differential Series Models P521, P531, and P523

HOW TO ORDER EXAMPLE:

Precision Grade Differential, 4-20 mA, 0.25% Accuracy, 0 to 30 psid, Differential/Unidirectional, 1/4" NPT (F), 2 ft. Wire Pigtail (NEMA 4X)

