

P331



Tank Level Transmitter

For Anderson, Cherry Burrell, or King Gage Receivers

Fast Thermal Response Time

Hasteloy C -276 available



Designed for sanitary markets

Tel-Tru's P331 is 3A compliant and designed for CIP/SIP systems. Key feature of the sensing element is advanced temperature compensation methods, which not only improves performance over a wide temperature band, but greatly reduces CIP/SIP recovery times.

Manufactured for CIP/SIP & Wash-down areas

The P331 is manufactured for reliability and stability in high humidity environments, and where direct sprays for wash-down purposes are present.

316L SST standard material of construction

The P331's construction of all 316L SST makes it an ideal choice for applications involving aggressive fluids.

Calibration Certificate

Every P331 is shipped with a NIST traceable calibration certificate.

Standard Features

- ±0.25% FSO Static Accuracy
- Media temperature up to 300°F
- ±0.25% FSO/YR Stability

Available Options

- ±0.1% FSO Static Accuracy
- Improved Thermal Error Band to +/-0.5% FSO per 100°F
- Digital Output



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P331 Tank Level Transmitter



0-3 psi through 0-100 psi
CIP/SIP Compatible

Product Specifications

Electrical

Excitation	2-15 Vdc*
	8-38 Vdc*
Output	
P331C	1-2 mV/V*
P331B	0-5 Vdc*
P331A	4-20 mAdc
Zero Balance	± 1% FSO
FSO Setting	± 1% FSO
Resolution	Infinite (± 0.001% FSO usable)
Response Time	< 5 mS
Insulation Resistance	100 MΩ @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	± 0.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc

Mechanical

Pressure Ranges	0-3 psi through 0-100 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 3000 psi)
Materials	
Wetted Parts*	316L SST*
Pressure Port	To mate with Anderson, Cherry Burrell, or King Gage tank receivers
Electrical Connector	1/2" NPT (m) conduit with 20' cable
Dimensions	per outline below

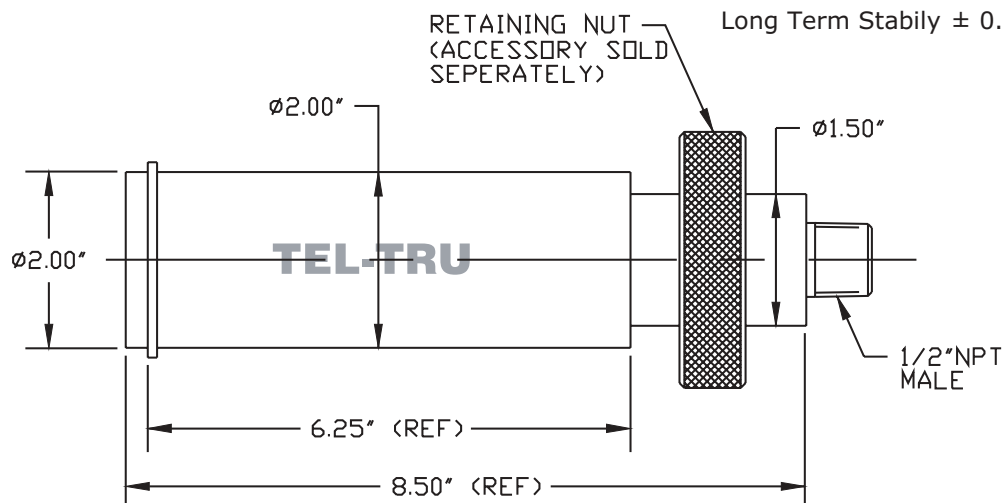
Environmental

Compensated Temp Range	0°F to 170°F
Operating Temp Range	-20°F to +300°F

Performance

Static Accuracy	± 0.25% 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% per year

*Options Available



Standard Wiring:

Model	Output	+ Power	- Power	+ Signal	- Signal
FD1	mV/V dc 4 wire	Red/Pin 1/Pin A	Black/Pin2/PinB	Green/Pin 3/Pin C	White/Pin 4/Pin D
FD2	0-5 (10) Vdc 3 Wire	Red/Pin 1/Pin A	Black/Pin2/PinB	Green/Pin 3/Pin C	+Sig ref to -Power
FD3	4-20 mAdc 2 Wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

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

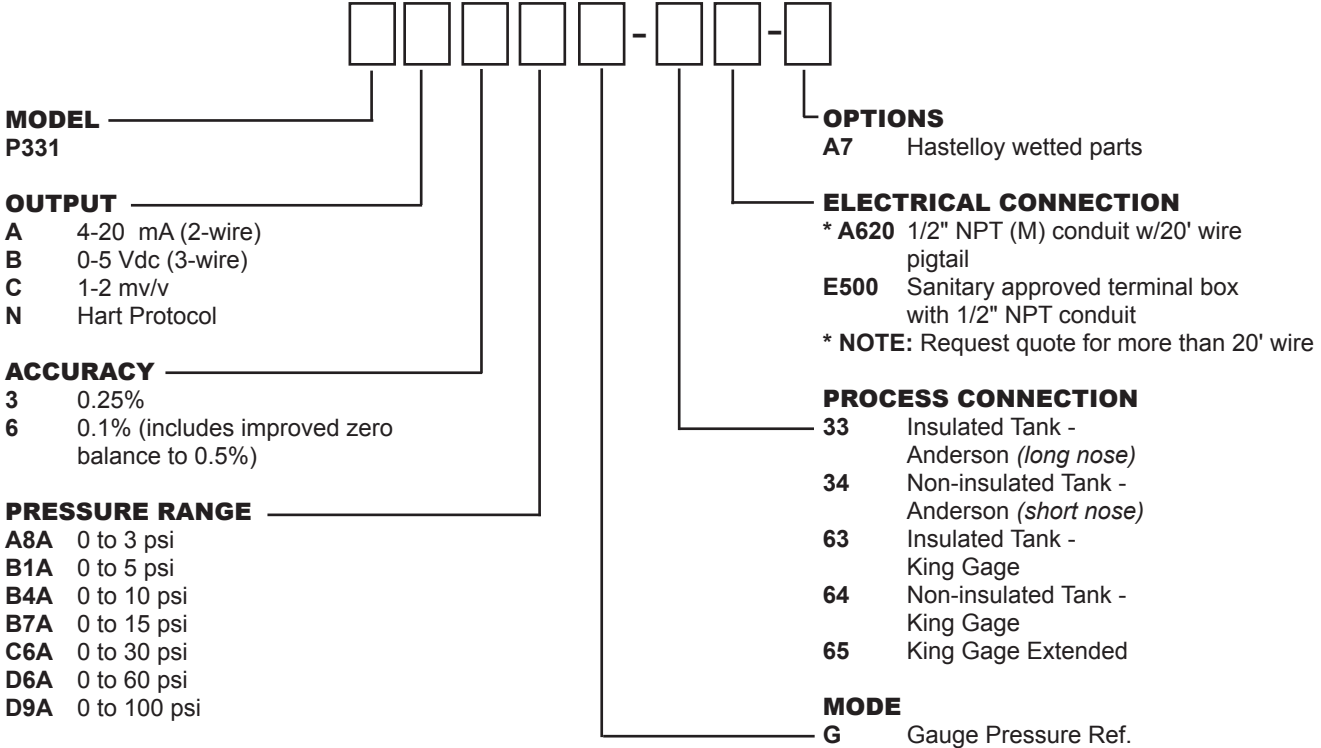
TEL-TRU PRESSURE TRANSMITTERS

Sanitary Series Model P331 - Tank Level

HOW TO ORDER EXAMPLE:

Tank Level Transmitter, 4-20 mA, 0.25% Accuracy, 0-10 psi, Gauge Pressure, Insulated Anderson tank, 20 ft. 1/2" NPT conduit.

Example: P331 A 3 B4A G - 33 A620 -



PRICES INCLUDE:

- Certificate of Calibration (directly traceable to NIST)

IMPORTANT NOTE:

- Available Upon Request--Additional Options (consult factory):
- Pressure Ranges/Unit of Measure
 - Cherry-Burrell process connection and receivers

ACCESSORIES

(to be ordered separately)

- P331-01 Retaining nut - Anderson
- P331-02 Retaining nut - King Gage
- P331-03 Receiver, insulated tank - Anderson
- P331-04 Receiver, non-insulated tank - Anderson
- P331-05 Receiver, insulated tank - King Gage
- P331-06 Receiver, non-insulated tank - King Gage

List prices subject to change without notice (FCA Rochester, NY USA)



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