

# 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

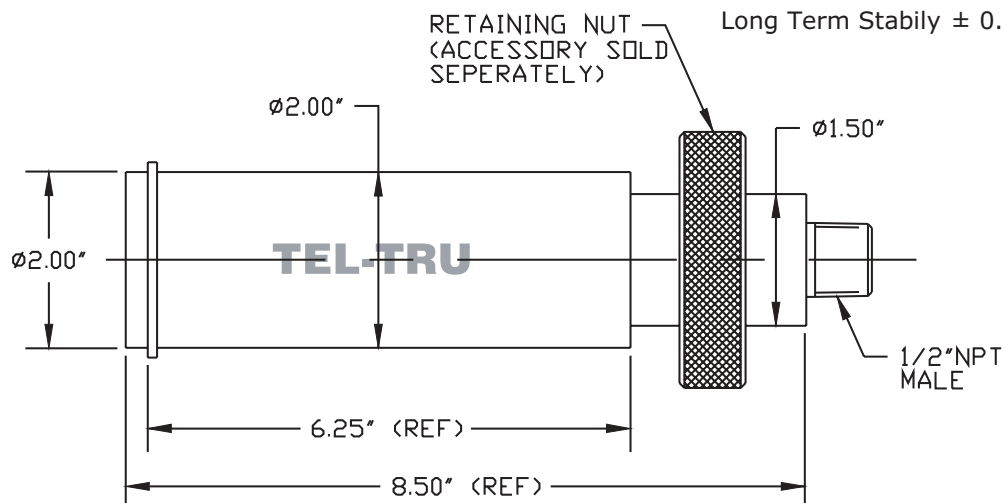
### Environmental

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.