TEL-TRU MANUFACTURING COMPANY TEL-TRU **MODEL P611** PRESSURE TRANSMITTER

Industrial Silicon Glass Fused Sensor Series

KEY BENEFITS

P611A3D9AG010

S/N: 8298004

RANGE: 0-100

INPUT: 11-35 Vá

OUTPUT: 4-20 ml

MADE IN USA

ww.teltru.com

- Unique glass fused strain gauge sensor provides exceptional calibration stability
- Calibration certificate (NIST traceable) with each transmitter
- Re-rangeable in the field minimizes customer stocking
- Static Accuracy +/-0.50%, +/-0.25%, or +/-0.15% of calibrated span (combined effects of linearity, hysteresis, repeatability)
- All 316L stainless steel welded • construction for long service life in demanding applications

Stepped design of the pressure chamber minimizes anv effect on the sensor caused by overtightening during installation

Robust, single piece, 316L sensor construction without O-rings or seals provides optimum media compatibility

Single piece diaphragm and high output silicon glass fused strain gauge maximize cycle life and protection from pressure spikes

NERO Ô

SPAN

Dry sensor construction prevents contamination of customer media



APPLICATIONS:

- Hydraulic and pneumatic controls
- Hydrogen fuel cells
- HVAC compressor systems
- Pump monitoring
- Die cast machines
- Plastic injection moulding
- Test stands
- Presses
- Oil and gas monitoring
- Laboratory testing

RANGES:

Many ranges from Vacuum to 0-10,000psi; also metric standard Bar and Kg/cm² ranges. Custom ranges readily accomodated.

CONNECTIONS:

Many pressure and electrical connections available. Custom connections can be accomodated.

OPTIONS:

- Certificate of Conformance
- Certificate of Calibration traceable to NIST, with five check points
- Restrictor orifice within the pressure connection for hydraulic spike suppression
- Tamper-proof unit without customer accessible zero and span adjustment
- Sealed unit without customer accessible zero and span adjustment
- PTD-2 local plug-in loop powered indicator for use with the DIN 43650 A electrical connection and 4-20mA output electronics
- Tri-Clamp® and Cherry-Burrell® sanitary seals available, see Model P621

WARRANTY:

Three-year warranty, see website for details: www.teltru.com/t-P600.aspx

Tri-Clamp[®] is a registered trademark of Ladish Company

Cherry-Burrell® is a registered trademark of United Dominion Industries, Inc.



SENSOR

World-Class Instruments Since 1916

MODEL P611 PRESSURE TRANSMITTER - Additional specifications at www.teltru.com/t-P600.aspx

FUNCTIONAL SPECIFICATIONS

Proof Pressure:* Up to 2 times URL

Burst Pressure:* Up to 5 times URL or 20,000psi, whichever is less

Zero Adjustability: Up to +/- 30% of calibrated span (output dependent), externally accessible

Span Adjustability: Up to 2.5 to 1 turndown of URL, externally accessible

PERFORMANCE SPECIFICATIONS

Static Accuracy (combined effects of linearity, hysteresis, repeatability): +/-0.50% or +/-0.25% of calibrated span +/-0.15% of calibrated span

Linearity:*** +/-0.15% of calibrated span, BFSL +/-0.05% of calibrated span, BFSL

Hysteresis: Better than 0.05% of calibrated span

Repeatability: Better than 0.05% of calibrated span

Response Time: Less than 1ms

PHYSICAL SPECIFICATIONS

Wetted Materials:

Single piece 316L Stainless Steel diaphragm structure, with welded on pressure connections

Environmental Rating: Integral Cable and 1/2" NPT Conduit connections are IP65/IP67

DIN 43650 A and C connections are IP65

M12 connection is IP65/IP67

Bendix Style connections are IP65

Output:

4-20mA, 2-wire
Output Impedance:

>10K Ohms

Current Consumption: 20mA

Output Load: 0-1000 Ohms @10-30Vdc

Output Noise: Negligible **Power Supply Requirements:** 10-30Vdc

Temperature Limits:

Compensated range: 32/130°F (0/55°C) Operating range: -40/185°F (-40/85°C) Storage range: -40/212°F (-40/100°C)

* URL = Upper Range Limit (see range code list on website, www.teltru.com/t-P600.aspx)

Zero Offset:

Within calibrated accuracy (+/-1% of URL for sealed housing option)

Span Tolerance: Within calibrated accuracy (+/-2% of URL for sealed housing option)

Stability: Better than +/-0.25% of URL for 1 year, non-accumulating

Durability: Greater than 1,000,000 full scale cycles

Thermal Effect on Zero:** Less than +/-0.036% URL/°F (+/-0.065% URL/°C)

Thermal Effect on Span:**

Less than +/-0.036% of calibrated span/°F (+/-0.065% of calibrated span/°C)

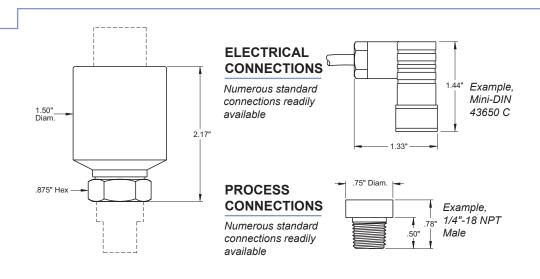
Shock: Designed to withstand 10Gs, 11ms, 1/2 sine (50Gs with optional silicone gel potting)

Vibration:

Designed to withstand 10Gs peak, 20-2400Hz (50Gs with optional silicone gel potting)

*** Best-Fit-Straight-Line

** Over Compensated Range



WIRING COLORS AND PINOUTS

Output	Function	Integral Cable or 1/2"NPT w/Cable	DIN 43650 A	DIN 43650 C	M12	Bendix 4-pin	Bendix 6-pin
4-20mA 2-wire	+ Supply	Red	1	1	1	A	A
	+ Output	Black	2	2	3	В	В



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