



TEL-TRU<sup>®</sup> MANUFACTURING COMPANY

# PRESSURE TRANSMITTERS



[www.teltru.com](http://www.teltru.com)



*World-Class Instruments* Since 1916



## Premier Grade Silicon Glass Fused Sensor 600 Series



### P611 - Industrial Silicon Glass Fused Sensor

**OUTPUTS**

- 4-20 mA (2-wire)
- 0-5V (3-wire)
- 0-10V (3 wire)

**ACCURACY**

- +/-0.50% or +/-0.25% of calibrated span
- +/-0.15% of calibrated span (4-20mA only)

**PRESSURE RANGES**

- Vacuum to 0-10,000psi plus metric standard Bar and Kg/cm<sup>2</sup>

**APPLICATIONS**

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



### P621 - Sanitary Silicon Glass Fused Sensor

**OUTPUTS**

- 4-20 mA (2-wire)
- 0-5 V (3-wire)
- 0-10V (3 wire)

**ACCURACY**

- +/-0.50% or +/-0.25% of calibrated span
- +/-0.15% of calibrated span (4-20mA only)

**PRESSURE RANGES**

- Vacuum to 0-1,000psi plus metric standard Bar and Kg/cm<sup>2</sup>

**CERTIFICATIONS**

3A compliant

**APPLICATIONS**

- Dairy
- Food and Beverage
- Pharmaceutical
- Cosmetic
- Biotech



## Precision Grade Threaded 100 Series



### P121 - Precision Grade Threaded

**OUTPUTS**

- 4-20 mA (2-wire)
- 0-5 Vdc (3-wire)
- 1-2 mV/V (4-wire)
- 1-10 Vdc output

**ACCURACY**

- 0.25%
- 0.10%

**PRESSURE RANGES**

- 30" Hg -0 psi thru 0-20,000 psi

**APPLICATIONS**

- Hydraulics and Pneumatics
- Injection Molding Machines
- Laboratory and Test Equipment
- Marine and Offshore
- Petrochemical
- Pump and Compressors
- Brake Test Equipment
- Off Highway Equipment



### P141/143 (explosion proof) - Precision Grade Rugged

**OUTPUTS**

- 4-20 mA (2-wire)
- 0-5 Vdc (3-wire)
- 1-2 mV/V (4-wire)
- 0-10 Vdc (req. 16-38 Vdc excit.)

**ACCURACY**

- 0.25%
- 0.10%

**PRESSURE RANGES**

- 30" Hg -0 psi thru 0-25,000 psi

**CERTIFICATIONS**

cCSAus Explosion-Proof Certified for Class I Div 1 and Class I Div 2 Groups A, B, C, D

**APPLICATIONS**

- High Pressure Cutting Systems
- Industrial Process Control
- Laboratory and Test Equipment
- Stamping Presses



### P151 - Precision Grade Mid-High Pressure

**OUTPUTS**

- 4-20 mA (2-wire)
- 0-5 Vdc (3-wire)
- 1-2 mV/V (4-wire)
- 1-10 Vdc output

**ACCURACY**

- 0.50%
- 0.25%
- 0.10%

**PRESSURE RANGES**

- 0-15,000 psi thru 0-60,000 psi



### P161 - Precision Grade Ultra High Pressure

**OUTPUTS**

- 4-20 mA (2-wire)
- 0-5 Vdc (3-wire)
- 1-2 mV/V (4-wire)
- 1-10 Vdc output

**ACCURACY**

- 0.50%
- 0.25%
- 0.10%

**PRESSURE RANGES**

- 0-25,000 psi thru 0-100,000 psi



## Precision Grade Flush 200 Series



### P221 - Precision Grade Flush Diaphragm

**OUTPUTS**

4-20 mA (2-wire)  
 0-5 Vdc (3-wire)  
 1-2 mV/V (4-wire)  
 0-10 Vdc output

**ACCURACY**

0.50%  
 0.25%

**PRESSURE RANGES**

0-100 psi thru 0-7,500 psi

**CERTIFICATIONS**

FM/CSA approvals pending

**APPLICATIONS**

- Adhesives and Plastics Coating Machinery
- Paint Systems
- Sealant Systems
- Slurries
- Non-Filled Flush Diaphragm Process Connection



## Precision Grade Sanitary 300 Series



### P321 - Precision Grade Sanitary

**OUTPUTS**

4-20 mA (2-wire)  
 0-5 Vdc (3-wire)  
 0-10 Vdc output

**ACCURACY**

0.25%  
 0.10%

**PRESSURE RANGES**

-30" Hg -0 psi thru 0-1,000 psi

**CERTIFICATIONS**

3A compliant

**APPLICATIONS**

- Biotech
- Cosmetics
- Dairy
- Food and Beverage Processing
- Pharmaceutical

### P331 - Precision Grade Sanitary Tank Level

**OUTPUTS**

4-20 mA (2-wire)  
 0-5 Vdc (3-wire)  
 1-2 mV/V  
 Hart Protocol

**ACCURACY**

0.25%  
 0.10%

**PRESSURE RANGES**

0-3 psi thru 0-100 psi

**CERTIFICATIONS**

3A compliant



### P341 - Precision Grade Homogenizer

**OUTPUTS**

4-20 mA (2-wire)  
 0-5 Vdc (3-wire)  
 1-2 mV/V

**ACCURACY**

0.50%  
 0.25%

**PRESSURE RANGES**

0-100 psi thru 0-20,000 psi

**CERTIFICATIONS**

3A compliant



## Precision Grade Submersible 400 Series



### P421 - Precision Grade Submersible

**OUTPUTS**

4-20 mA (2-wire)  
 0-5 Vdc (3-wire)  
 .5 - 4.5 Vdc output

**ACCURACY**

0.50%  
 0.25%

**PRESSURE RANGES**

0-5 psi thru 0-500 ft. WC

**APPLICATIONS**

- Heavy Slurries
- Hydro Electric
- Level and Depth Measurement
- Waste Water Treatment

### P431 - Precision Grade Submersible

**OUTPUTS**

4-20 mA (2-wire)  
 0-5 Vdc (3-wire)  
 .5 - 4.5 Vdc output

**ACCURACY**

0.25%  
 0.10%

**PRESSURE RANGES**

0-3 psi thru 0-15,000 ft. WC

**APPLICATIONS**

- Irrigation
- Level and Depth Measurement
- Underground Storage
- Water Resource
- Well Water
- Coal Bed Methane



## Precision Grade Differential 500 Series



### P521 - Precision Grade Differential

#### OUTPUTS

4-20 mA (2-wire)  
0-5 Vdc (3-wire)  
1-2 mV/V (4-wire)  
0-10 Vdc output

#### ACCURACY

0.50%  
0.25%  
0.10%

#### PRESSURE RANGES

0-30 psid thru 0-10,000 psid

#### APPLICATIONS

- Hydraulics and Pneumatics
- Laboratory and Test
- Marine and Offshore
- Petrochemical
- Pumps and Compressors



### P523 (explosion proof) - Precision Grade Differential

#### OUTPUTS

4-20 mA (2-wire)  
0-5 Vdc (3-wire)  
1-2 mV/V (4-wire)  
0-10 Vdc output

#### ACCURACY

0.50%  
0.25%  
0.10%

#### PRESSURE RANGES

0-5 in. WC thru 0-10,000 psi

#### CERTIFICATIONS

cCSAus Explosion Proof Certified to Class 1 Div 1 and Class 1 Div 2 Groups A, B, C, D



### P531 - Precision Grade Differential

#### OUTPUTS

4-20 mA (2-wire)  
0-5 Vdc (3-wire)  
1-2 mV/V (4-wire)  
0-10 Vdc output

#### ACCURACY

0.50%  
0.25%  
0.10%

#### PRESSURE RANGES

0-5 in. WC thru 0-100 psid



## PTD-2 Display



### PTD-2 - Local Readout Display

#### OUTPUT

4-20 mA

#### ACCURACY

0.050%

#### PROTECTION CLASS

NEMA 4X

For detailed specifications, ranges, and order information, go to:  
[www.teltru.com/s-160-pressure-transmitters.aspx](http://www.teltru.com/s-160-pressure-transmitters.aspx)

### Application and environmental conditions affect transmitter selection:

#### Type of service:

- Oil/gas
- Process
- Power plant general machinery
- OEM
- Waste water, etc.

#### Fluid conditions

- Static
- Varying pressure
- Pulsation
- Min/max temperatures
- Type of fluid
  - Sour gas
  - Water
  - Steam
  - Sludge, etc.

### Various options are available—for proper selection consider:

#### Output

- Requirements of receiving equipment
- Supply voltage available
- Distance signal will travel

#### Process connection

- Application requirements
- Pressure in system
- Media type being measured

#### Accuracy

- Application requirement
- Cost


#### Electrical connection

- Plant standards
- Application requirements

#### Pressure range

- Pressure limits of application
- Scaling of output signal—best when 50% to 80% of operating range is within mid-scale

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The  mark on Tel-Tru Pressure Transmitters indicates they are in compliance with European Standards, incorporating components designed to protect the device from and neutralize the effects of Radio Frequency Interference (RFI), Electromagnetic Interference (EMI), and Electrostatic Discharge (ESD). This "electrical noise" comes from walkie-talkies (RFI), AC motors used in the vicinity of the transmitter installation (EMI), or from sources within the transmitter itself (ESD).