



TEL-TRU MANUFACTURING COMPANY

PRESSURE TRANSMITTERS



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World-Class Instruments Since 1916



Premier Grade Silicon Glass Fused Sensor 600 Series



P611 - Industrial Silicon Glass Fused Sensor

OUTPUT

4-20 mA (2-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/cm²

CERTIFICATIONS

Approval pending for cCSAus Intrinsically Safe (P612) and Explosion-Proof (P613) certification

Coming soon in 2011!

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

OUTPUT

4-20 mA (2-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/cm²

CERTIFICATIONS

3A compliant
Approval pending for cCSAus Intrinsically Safe (P622) and Explosion-Proof (P623) certification



Coming soon in 2011!

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



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

APPLICATIONS

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



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

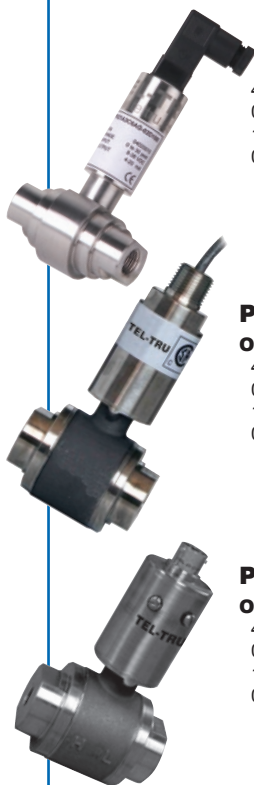
0-3 psi thru 0-15,000 ft. WC

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-1 Display



PTD-1 - 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

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).