Amplified Output Industrial Pressure Transducers
Series: PT-L1/L3/L10

Our amplified output pressure transmitters are the economical answer for all applications requiring high accuracy and reliability over a wide range of pressures. The PT-L1/L3/L10 pressure transmitters offer ranges from vacuum to 10,000 psi, all stainless steel construction, high burst pressure, and high accuracy.

Features

- Cost effective
- High overpressure capability
- Zero and span adjustments
- Single piece stainless steel process fitting and sensor
**PT-L1/L3/L10 Specifications**

### Performance
- **Accuracy**
  - B.F.S.L. ≤ 0.25% of full scale
  - NIST up to ±0.1% available on select ranges
- **Temp Compensation Range:**
  - Up to 0º - 130ºF (-17º - 54ºC)
- **Extended Temp Compensation Ranges:** (Optional)
  - -40º - 180ºF (-40º - 82ºC)
  - 0º - 185ºF (-17º - 85ºC)

### Connectivity
- **Output:**
  - 4-20 mA
  - 0-5 VDC
  - 1-5 VDC
  - 1-6 VDC
  - 0-10 VDC
- **Internet Connectivity:**
  - RST-5003 (4-20 mA version only)

### Electrical
- **Supply Voltage:**
  - 4-20 mA: 10 - 36 VDC
  - 0-5 VDC: 9 - 33 VDC
  - 1-5 VDC: 9 - 33 VDC
  - 1-6 VDC: 9 - 33 VDC
  - 0-10 VDC: 14 - 33 VDC
- **Electrical Protection:**
  - Reverse polarity

### Physical
- **Material:** 15-5, 17-4, or 316L SS

### Programming
- **Field Calibration:**
  - Zero and Span adjust
Common Model Configurations

4-20 mA Output

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-L1-C-15-PSIA-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-15 PSI, Absolute Pressure Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-60-PSIA-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-60 PSI, Absolute Pressure Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-5-PSIG-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-5 PSI, Gauge Pressure Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-30-PSIG-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-30 PSI, Gauge Pressure Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-100-PSIG-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-100 PSI, Gauge Pressure Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-50-PSICG-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-50 PSI, Compound Gauge Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-500-PSICG-E5-5-P0-N0-M1-V0-K0-S0</td>
<td>0-500 PSI, Compound Gauge Reference, 1/4” NPTM, 316L SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-1000-PSIS-E5-5-P0-M2-V0-K0-S0</td>
<td>0-1,000 PSI, Sealed Gauge Reference, 1/4” NPTM, 17-4 SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-5000-PSIS-E5-5-P0-M2-V0-K0-S0</td>
<td>0-5,000 PSI, Sealed Gauge Reference, 1/4” NPTM, 17-4 SS, 5 ft. cable</td>
</tr>
<tr>
<td>PT-L1-C-10000-PSIS-E5-5-P0-M2-V0-K0-S0</td>
<td>0-10,000 PSI, Sealed Gauge Reference, 1/4” NPTM, 17-4 SS, 5 ft. cable</td>
</tr>
</tbody>
</table>

Accessories

Please order separately, by part number.

<table>
<thead>
<tr>
<th>Mating Connector</th>
<th>Part Number</th>
<th>Cable in Feet Part Number Suffix</th>
<th>Cable Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-pin bayonet mating connector (E3)</td>
<td>509010</td>
<td>-10xx -20xx</td>
<td>02, 05, 10, 25</td>
</tr>
<tr>
<td>4-pin female (M12) mating connector (E4)*</td>
<td>--</td>
<td>135407-000x</td>
<td>2 meters, 5 meters</td>
</tr>
<tr>
<td>6-pin circular mating connector (E1)</td>
<td>509110</td>
<td>-10xx -20xx</td>
<td>02, 05, 10, 25</td>
</tr>
<tr>
<td>6-pin bayonet mating connector (E17)</td>
<td>509165</td>
<td>-10xx -20xx</td>
<td>02, 05, 10, 25</td>
</tr>
</tbody>
</table>

*Note: 4-pin female (M12) must be ordered with 2 or 5 meters of cable. It is not available as mating connector only.
Model Configuration Options

Model Number: PT-____ - C-____ - ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____ - ____

A. Operation
- □ L1  4-20 mA  □ L11  1-6 VDC
- □ L3  0-5 VDC  □ L12  1-5 VDC
- □ L10  0-10 VDC  □ L21  1-10 VDC

B. Common Pressure Ranges - PSI*
- □ 5  □ 50  □ 200  □ 1000  □ 5000
- □ 15  □ 60  □ 300  □ 2000  □ 10000
- □ 30  □ 100  □ 500  □ 3000

*Other ranges available. Please consult factory.

C. Unit of Measure
- □ PSI  □ kPa  □ inHg
- □ bar  □ inH₂O  □ kg/cm²
- □ mbar  □ mmHg  □ fsw

D. Pressure Type
- □ G  Gauge  □ A  Absolute
- □ CG  Compound Gauge  □ S  Sealed
- □ V  Vac

E. Electrical Connection
Mating connector sold separately
- □ E1  6-pin circular
- □ E3  4-pin bayonet
- □ E4  4-pin M12 Micro connector
- □ E5  Pigtail with cable (specify length below)
- □ E17  6-pin bayonet

F. Electrical Cable Length
- □ ___  Number represents cable length, in 5-ft increments, included on E5 pigtail option above.
  (ex. E5-10 represents pigtail with 10 ft. cable)

Note: ▲ Indicates this option is standard.

G. Process Connection
- □ P0  1/4-18 NPTM  □ P16  PT 1/4 (BSPP) male
- □ P4  7/16 SAE male flush mount  □ P22  G3/8 (3/8 BSPP) male
- □ P5  1/4-18 NPTF  □ P23  G1/2 (1/2 BSPP) male
- □ P7  7/16-20 SAE male  □ P30  High Pressure Sno Trik (M-250C, Autoclave male)
- □ P14  1/8-27 NPTM  □ P54  7/16-20 UNJF-3A male w/ cone

H. Accuracy
1-5,000 PSI
- □ N0  ±0.25%
- □ N1  ±0.25% with NIST certification
- □ N2  ±0.1% with NIST certification

10,000 PSI
- □ N12  ±0.5%
- □ N13  ±0.5% with NIST certification

*Note: ±0.25% available at 10,000 psi for 4-20 mA output only.

I. Materials
- □ M0  15-5 SS (≥ 1k psi)
- □ M1  316L SS (up to 5k psi)
- □ M2  17-4 SS (≥ 1k psi)

J. Vibration
- □ V0  Standard
- □ V1  High (not available with K0)

K. Can Assembly Connections

<table>
<thead>
<tr>
<th>Can - Elec Conn.</th>
<th>Can - Process Conn.</th>
<th>E Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>K0</td>
<td>Knurl</td>
<td>E1 - E5</td>
</tr>
<tr>
<td>K1</td>
<td>Tamper Resist*</td>
<td>Loc-Tite</td>
</tr>
<tr>
<td>K2</td>
<td>Tamper Resist*</td>
<td>Weld</td>
</tr>
<tr>
<td>K3</td>
<td>Weld</td>
<td>E3, E17</td>
</tr>
</tbody>
</table>

* Tamper Resist: Smooth Nut with Loc-Tite

L. Temperature
- □ S0  Standard: 0º - 130ºF (-17º - 54ºC)
- □ S1  Extended: -40º - 180ºF (-40º - 82ºC)
- □ S4  Extended: 0º - 185ºF (-17º - 85ºC)