DYNISCO MODEL PX184
Smart Pressure Transmitter for Flange Mounting

Description
Dynisco’s PX184 is a smart pressure transmitter with ambient and process temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. The PX184 is ideal for applications requiring the highest accuracy. The HART® protocol allows remote digital communications and remote configuration of transmitter parameters such as tag I.D., zero and span.

Features
- Accuracy of better than ±0.25% of range independent of process temperature
- 4 to 20 mA, 2 - wire output
- HART digital communication
- 5:1 span turn - down capability
- Ambient and process temperature compensation
- Optional 100 Ohm platinum RTD output

Benefits
- Improves process optimization and removes temperature effects
- Industry standard
- Process industry standard
- Allows use in multiple ranges
- Improved accuracy
- Process temperature measurement without a second intrusion into the process

Specifications

Performance Characteristics
Ranges:
psi: 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500
bar: 0 - 100, 0 - 200, 0 - 350, 0 - 500
Accuracy:
±0.25% of range: Within pressures of 20% to 100% of range and process temperatures of 77°F to 575°F (25°C to 300°C) (±0.50% for 1500 psi range)
±0.50% of range: Within pressures of 0 psig to 20% of range and above process temperatures (±1.00% for 1500 psi range)
Hastelloy:
±0.60% of range: Within pressures of 20% to 80% of range and process temperatures of 77°F to 575°F (25°C to 300°C) (±1.00% for 1500 psi range)
±1.00% of range: Within pressures of 0 psig to 20% of range

Resolution: 0.035% or better
Zero span and adjustment:
Zero: ±5% of range
Span: ±1% of range
Turn-down: 5:1 maximum
Overpressure limit: 1.5 x range
Sample rate: ≤50 msec
Long term stability: <0.09% of span per year

Temperature Characteristics
Operating temperature ranges (compensated):
Process: 77°F to 575°F (25°C to 300°C), option to 660°F (350°C)
Electronics: 77°F to 140°F (25°C to 60°C)

Temperature effects:
Electronics: ±0.15% of range/10°F (±0.027% of range/10°C)
Humidity limits: 0% to 90% relative humidity, non-condensing

Electrical Characteristics
Output: 2 - wire, 4 to 20 mA. Hart digital communication superimposed on the 4 to 20 mA signal is available for remote configurations
Damping: Adjustable through HART communicator
Power supply: 12 to 36 Vac
Electronics housing: IP 55, NEMA 3

Approval (optional)
FM approved, Class I, Division II, Groups A, B, C and D
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**Ordering Guide**

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<th>Model</th>
<th>Approvals</th>
<th>Diaphragm Material/Coating</th>
<th>Pressure Range</th>
<th>Rigid Stem</th>
<th>Flexible Stem</th>
<th>Options</th>
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<tbody>
<tr>
<td>PX184</td>
<td>(Blank) Standard</td>
<td>15 - 5 PH SST with DyMax™</td>
<td>Code psi Code bar</td>
<td>Code Length</td>
<td>Code Length</td>
<td>Code Description</td>
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<tr>
<td></td>
<td>FM Factory Mutual Approved Class I, Division II, Group A, I, C &amp; D</td>
<td>1.5M 0 - 1,500</td>
<td>138 (0 - 100)</td>
<td>6 6 (152)</td>
<td>30 30 (762)</td>
<td>M315 3 - wire w/ RTD output (snout temp.)</td>
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<td></td>
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<td>3M 0 - 3,000</td>
<td>238 (0 - 200)</td>
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<td></td>
<td>M635 Temperature compensated to 680°F (370°C)</td>
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<tr>
<td></td>
<td></td>
<td>5M 0 - 5,000</td>
<td>363 (0 - 350)</td>
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Ordering Example: PX184 - 1.5M - 6/30 - MXXX

Accuracy is based upon a maximum total length of process connection and flexible capillary of 36" (914). For each 6" (152) of length added, accuracy is reduced by 0.10% to maximum length of 48" (1219) total. For total unit lengths over 48" (1219), the error correction software performance is reduced. Consult factory for specific requirements.

**Notes:**
- FM approved units include end cap with conductor connector and 20 ft. (6 meter) leads.
- Standard unit includes a 6 pin Bendix connector and requires optional cable 929008 - 10 ft. (3 meter).
- Standard unit with M315 option includes an 8 pin Bendix connector and requires optional cable 801726.
- Mounting bracket PN195901 recommended.
- Consult factory for flange size and rating.