**DYNISCO MODEL IPX184**  
*Smart Pressure Transmitter for Flange Mounting*

**Description**
Dynosico's IPX184 is a smart pressure transmitter with ambient and process temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. The IPX184 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 ±0.15% 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**

<table>
<thead>
<tr>
<th>Ranges:</th>
<th>psi</th>
<th>0 - 1,500</th>
<th>0 - 3,000</th>
<th>0 - 5,000</th>
<th>0 - 7,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
<td>0 - 100, 0 - 200, 0 - 350, 0 - 500</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Accuracy:**
- ±0.15% of range: Within pressures of 20% to 100% of range and process temperatures of 77°F to 575°F (25°C to 300°C) (±0.25% for 1500 psi range)
- ±0.25% of range: Within pressures of 0 psig to 20% of range and above process temperatures (±0.50% for 1500 psi range)

**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)

**Electrical Characteristics**

Output: 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 Vdc

Electronics housing: IP 55, NEMA 3

**Approvals (optional)**

FM approved, Class I, Division II, Groups A, B, C and D

**Resolution:** 0.05% or better

Zero span and adjustment:
- Zero: ±80% of range
- Span: 20% to 100% 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 effects:**
- Electronics: ±0.15% of range/100°F (±0.027% of range/10°C)
- Humidity limits: 0% to 90% relative humidity, non-condensing

**Load limitation:** Maximum loop resistance is determined by the voltage of the external power supply. Digital communication requires a minimum loop resistance of 250 Ohms. (See below)
Ordering Guide

<table>
<thead>
<tr>
<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Code psi</td>
<td>Code bar</td>
<td>Code Length</td>
<td>Code Length</td>
</tr>
<tr>
<td>(Blank)</td>
<td>Standard</td>
<td>15 - 5 PH SST</td>
<td>1.5M 0 - 1,500</td>
<td>1CB (0 - 100)</td>
<td>6 6 (102)</td>
<td>30 30 (762)</td>
</tr>
<tr>
<td>IPX184</td>
<td>FM Factory</td>
<td>with DyMax™</td>
<td>3M 0 - 3,000</td>
<td>3CB (0 - 300)</td>
<td>6 6 (102)</td>
<td>30 30 (762)</td>
</tr>
<tr>
<td></td>
<td>Mutual Approved</td>
<td>Hastelloy</td>
<td>7.5M 0 - 7,500</td>
<td>5CB (0 - 500)</td>
<td>6 6 (102)</td>
<td>30 30 (762)</td>
</tr>
</tbody>
</table>

Ordering Example: IPX184 - 1.5M - 6/30 - M315

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 92908 - 10 ft. (3 meter).
- Standard unit with M315 option includes an 8 pin Bendix connector and requires optional cable 801726.
- Mounting bracket P/N1959001 recommended.
- Consult factory for flange size and rating.