**DYNISCO MODEL IPX185**

*Smart Pressure Transmitter for Button-Seal Mounting*

**Description**
Dynisco’s IPX185 is a smart pressure transmitter with ambient and process temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. Featuring the familiar “button - seal” mounting of Dynisco’s PT290 Series, the IPX185 is ideal for applications requiring the highest accuracy. Remote HART™ digital communication simplifies operator access for configuration of transmitter parameters such as tag I.D. 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**

- **Ranges:**
  - psi: 0 - 750, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500
  - bar: 0 - 50, 0 - 100, 0 - 200, 0 - 350, 0 - 500
- **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 750 psi range)
  - ±0.25% of range: Within pressures of 0 psig to 20% of range and above process temperatures (±0.50% for 750 psi range)
- **Hastelloy:**
  - ±0.30% of range: Within pressures of 20% to 80% of range and process temperatures of 77°F to 575°F (25°C to 300°C) (±0.60% for 750 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)
- **Temperature effects:**
  - Electronics: ±0.15% of range/100˚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 Vdc
- **Electronics housing:** IP 55, NEMA 3

**Approvals (optional)**

- FM approved, Class I, Division II, Groups A, B, C and D
## DYNISCO MODEL IPX185

**Smart Pressure Transmitter for Button-Seal Mounting**

### 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>IPX185</td>
<td></td>
<td>(Blank) Standard</td>
<td>15 - 5 PH SST</td>
<td>Standard</td>
<td>1.5M</td>
<td>1.5M</td>
</tr>
<tr>
<td></td>
<td>FM Factory Approved Class I</td>
<td>15 - 5 PH SST with Dymax™</td>
<td>3M</td>
<td>3M</td>
<td>3M</td>
<td>3M</td>
</tr>
<tr>
<td></td>
<td>H Hastelloy</td>
<td>7.5M</td>
<td>7.5M</td>
<td>7.5M</td>
<td>7.5M</td>
<td>7.5M</td>
</tr>
</tbody>
</table>

### Ordering Example: IPX185 - 1.5M - 4.77/30 - M625

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 P/N 195901 recommended.