DYNISCO MODEL 2192
Smart Pressure Transmitter for Thread Mounting

Description
Dynisco’s IPX II series 2192 is a high performance, microprocessor based transmitter with ambient and sensor temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. Series 2192 provides a high accuracy pressure measurement available in a 1/2 - 20 UNF mounting. Ranging and setup of the transmitter may be accomplished with a dual LCD display, the Windows™ based Smartlink software or by using a HART® communicator.

Features
- Accuracy of ±0.25% of range compensated for process temperature (range specific)
- Temperature compensation
- 4 to 20 mA, 2 - wire output
- 6:1 span turn - down capability
- Split design
- Optional second 4 to 20 mA signal for temperature
- Optional programmable LCD display
- HART digital communication
- FM approved models
- Intrinsically safe models

Benefits
- Improves process optimization and removes temperature effects
- Improves accuracy
- Process industry standard
- Allows use in multiple ranges
- Easy to install
- Output temperature signal to display system
- At line readout of preserve or temperature
- Process industry standard
- Approved for operation in hazardous areas
- Approved for EEx ia IIC

Specifications

Performance Characteristics
Ranges:
- psi: 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
- bar: 0 - 100, 0 - 200, 0 - 350, 0 - 500, 0 - 680

Accuracy 0 to 3000 psi and above:
±0.25% of full scale range: Within 20% to 100% of range and
within process temperatures of 77°F to 575°F (25˚C to 300˚C) (±0.50% for 1500 psi range)
±0.50% of full scale range: Within 0% to 20% of range and
within process temperatures of 77°F to 575°F (25˚C to 300˚C)

Hastelloy:
±0.50% of full scale range: Within 20% to 100% of range and
within process temperatures of 77°F to 575°F (25˚C to 300˚C)
±1.00% of full scale range: Within 0% to 20% of range and
within process temperatures of 77°F to 575°F (25˚C to 300˚C)

Temperature Characteristics
Operating temperature ranges (compensated):
- Process: 77°F to 575°F (25˚C to 300˚C) optional to 660°F (350˚C)
- Electronics: 77°F to 176°F (25˚C to 80˚C)

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: 0 to 32 second time constant, adjustable through HART communicator or SmartLink Software.
Power supply: 12 to 42 Vdc for non intrinsically safe; 12 to 30 Vdc for intrinsically safe.

LCD Display
Allows transducer to be configured and ranged at line before or after installation. Displays process pressure, 0 - 100% bar graph and temperature (optional).

Approvals
CE approved
FM approved, Explosion - Proof, Class I, Division I, Groups B, C and D, Class II/III, Division 2, Groups E, F and G (optional),
SIRA approved, Intrinsically Safe, EEx ia IIC (optional)

Resolution: 0.035% full scale or better
Zero span and adjustment: Zero: +84% of range; Span: 16% to 100% of range
Turn-down: 6:1
Overpressure limit: 1.5 x range
Sample rate: >10/sec
Long term stability: <0.09% of full scale per year

Temperature effects:
Electronics: ±0.15% span/99°F (±0.15% span/55˚C)

Electronics housing: IP66, NEMA 4x
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)

(Shown for standard unit without LCD display)
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Ordering Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Diaphragm Material</th>
<th>Pressure Range</th>
<th>Standard Snout Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code Description</td>
<td>psi</td>
<td>Code</td>
</tr>
<tr>
<td>N2192: No Approvals</td>
<td>(Blank) 15-5 PH SST</td>
<td>0 - 1,500</td>
<td>1CB</td>
</tr>
<tr>
<td>S2192: Intrinsically Safe</td>
<td>3M with Dymax®</td>
<td>0 - 3,000</td>
<td>2CB</td>
</tr>
<tr>
<td>EE x ia IIC T4</td>
<td>coated Dymax®</td>
<td>0 - 5,000</td>
<td>3.5CB</td>
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<tr>
<td>E2192: Explosion-Proof</td>
<td>7.5M diaphragm coated</td>
<td>0 - 7,500</td>
<td>5CB</td>
</tr>
<tr>
<td>Class 1, Division 1, factory, Groups B, C and D</td>
<td>H Hastelloy Class I/III, Division 2,</td>
<td>0 - 10,000</td>
<td>6.8CB</td>
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</tbody>
</table>

Standard Stem (Capillary) Lengths

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0” (0)</td>
<td>18</td>
<td>18” (457)</td>
</tr>
<tr>
<td>30</td>
<td>30” (762)</td>
<td>T</td>
<td>Second 4-20mA output</td>
</tr>
</tbody>
</table>

For non-standard lengths please consult factory

Note: Max. "snout & capillary" lengths is 30” (914)

Ordering Example: S2192 - 5CB - 6/30 - D2 - H

Notes:
• Please consult factory for alternate full scale settings and non-standard options.
• 10M units are compensated to 7.5M and extrapolated from 7.5M to 10M.
• Mounting bracket P/N 190750 is recommended.

All dimensions are in inches (millimeters) unless otherwise specified