**DYNISCO MODEL 1195**

*Smart Pressure Transmitter for Button-Seal Mounting*

**Description**

Dynisco’s IPX II Series 1195 is a high performance, microprocessor based transmitter with ambient and sensor temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. The Model 1195 provides a high accuracy pressure measurement available in a button-seal mounting. Ranging and setup of the transmitter may be accomplished with a dual LCD display, the Windows™ based software Smartlink or by using a HART® communicator.

**Features**

- Accuracy of ±0.15% of range compensated for 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 pressure or temperature
- Process industry standard
- Approved for operation in hazardous areas
- Approved for EEx ia IIC

**Specifications**

**Performance Characteristics**

**Ranges:**
- psi: 0 - 750, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
- bar: 0 - 50, 0 - 100, 0 - 200, 0 - 350, 0 - 500, 0 - 680

**Accuracy:**

- ±0.15% 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) (±0.25% for 750 psi range)
- ±0.25% 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) (±0.50% for 750 psi range)

**Hastelloy:**

- ±0.30% 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) (±0.60% for 750 psi range)
- ±0.60% 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) (±1.00% for 750 psi range)

**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

**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 sample below)
#### Ordering Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Diaphragm Material</th>
<th>Flange Type</th>
<th>Flange Options</th>
<th>Pressure Ranges</th>
<th>Snout Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1195: No Approvals</td>
<td>(Blank) 15-5 PH SST</td>
<td>(Blank) Standard flange</td>
<td>(Blank) Non-welded flange</td>
<td>7.5C 0 - 750 50B 0 - 50</td>
<td>2.4 2.4” (61)</td>
</tr>
<tr>
<td>S1195: Intrinsically Safe, EE x ia IIC</td>
<td>SX Different flange type consult factory</td>
<td>W Welded flange</td>
<td>1.5M 0 - 1,500 1CB 0 - 100</td>
<td>5.77 5.77” (121)</td>
<td></td>
</tr>
<tr>
<td>E1195: Explosion-Proof</td>
<td>H Hastelloy coated diaphragm</td>
<td>H Hartelloy</td>
<td>1.5M 0 - 1,500 1CB 0 - 100</td>
<td>10CB 0 - 200</td>
<td>6 6” (152)</td>
</tr>
<tr>
<td>E1195: Explosion-Proof</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>For non-standard lengths please consult factory</td>
</tr>
<tr>
<td>N1195: No Approvals</td>
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</tbody>
</table>

#### Standard Stem (Extension) Lengths

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
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<tbody>
<tr>
<td>18</td>
<td>18” (457)</td>
</tr>
<tr>
<td>30</td>
<td>30” (762)</td>
</tr>
</tbody>
</table>

#### Temperature Output

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No second 4-20mA output</td>
</tr>
<tr>
<td>T</td>
<td>Second 4-20mA output</td>
</tr>
</tbody>
</table>

#### LCD Display

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No display</td>
</tr>
<tr>
<td>D2</td>
<td>Programmable dual LCD display</td>
</tr>
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</table>

#### Communication Protocol

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M625</td>
<td>Full snout temperature compensated to 660°F (350°C)</td>
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</table>

#### Options

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>L72</td>
<td>72” (1829)</td>
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#### Cable Length

<table>
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<th>Code</th>
<th>Description</th>
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<tr>
<td>(Blank)</td>
<td>120” (3048)</td>
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</table>

*“R” after code refers to rigid.

For non-standard lengths please consult factory.

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**Notes:**
- Please consult factory for alternate full scale settings and available options.
- Consult factory for different flange size and rating.
- Mounting bracket P/N 190730 is recommended.
- 10M units are compensated to at least 7.5M and extrapolated to 10M.

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**Ordering Example:** S1195 - 1.5M - 6/18 - T - D2

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**Electronics Module**

All dimensions are in inches (millimeters) unless otherwise specified.

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195000 - D