**DYNISCO MODEL 1194**

*Smart Pressure Transmitter for Flanged Mounting*

**Description**
Dynisco’s IPX II Series 1194 is a high performance, microprocessor based transmitter with ambient and sensor temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. The Model 1194 provides the highest accuracy pressure measurement available in a 243 style 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 ±0.15% 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

**Performance Characteristics**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Zero span and adjustment</th>
<th>Turn-down</th>
<th>Overpressure limit</th>
<th>Sample rate</th>
<th>Long term stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi: 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000</td>
<td>±0.035% full scale or better</td>
<td>±84% of range; Span: 16%</td>
<td>6:1</td>
<td>1.5 x range</td>
<td>&gt;10/sec</td>
<td>&lt;0.09% of full scale per year</td>
</tr>
<tr>
<td>bar: 0 - 100, 0 - 200, 0 - 350, 0 - 500, 0 - 680</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 1500 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 1500 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 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)
### DYNISCO MODEL 1194

**Smart Pressure Transmitter for Flanged Mounting**

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**Ordering Example:**

```
E1194H - 3M - 6/18 - D2 - H
```

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

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**Ordering Guide**

<table>
<thead>
<tr>
<th>Model</th>
<th>Diaphragm Material</th>
<th>Pressure Range</th>
<th>Snout Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1194: No Approvals</td>
<td>(Blank) 15-5 PH SST</td>
<td>Code psi</td>
<td>Code bar</td>
</tr>
<tr>
<td>S1194: Intrinsically Safe with</td>
<td>1.5M 0 - 1,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE x ia IIC</td>
<td>with 3M 0 - 3,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E1194: Explosion-Proof coated</td>
<td>5M 0 - 5,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class 1, Division 1,</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Groups B, C and D</td>
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</tr>
<tr>
<td>Class II/III, Division 2,</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Groups E, F and G</td>
<td>H Hastelloy</td>
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<td></td>
</tr>
</tbody>
</table>

**Standard Stem (Extension) Lengths**

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0’ (0)</td>
</tr>
<tr>
<td>18</td>
<td>18’ (457)</td>
</tr>
<tr>
<td>30</td>
<td>30’ (762)</td>
</tr>
</tbody>
</table>

**Temperature Output**

- Code Description: (Blank) No second 4-20mA output
- Code Description: (Blank) D2 No display
- Code Description: T Second 4-20mA output
- Code Description: H HART configurable

**Communication Protocol**

- Code Description: M625 Full snout temperature compensated to 680°F (350°C)

**Cable Length**

- Code Description: (Blank) 120’ (3648)
- Code Description: L72 72’ (1829)

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For non-standard lengths please consult factory.

**Notes:**
- Max. “snout & capillary” lengths is 36” (914) with 72” (1829) of cable.

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

**CE and intrinsically safe models are supplied with 72” (1829) of cable.**