## **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



### **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

 $\pm 0.15\%$  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) ( $\pm 0.25\%$  for 1500 psi range)  $\pm 0.25\%$  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) ( $\pm 0.50\%$  for 1500 psi range) **Hastelloy:** 

 $\pm 0.30\%$  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) ( $\pm 0.50\%$  for 1500 psi range)  $\pm 0.50\%$  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) ( $\pm 1.00\%$  for 1500 psi range)

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

## COATING

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#### **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

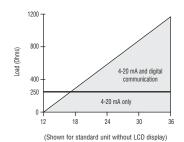
FM approved, Explosion - Proof, Class I, Division I, Groups B, C and D, Class II/III, Division 2, Groups E, F and G (optional), SIRA approved, Intrinsically Safe, EEx ia IIC (optional)

#### Temperature effects:

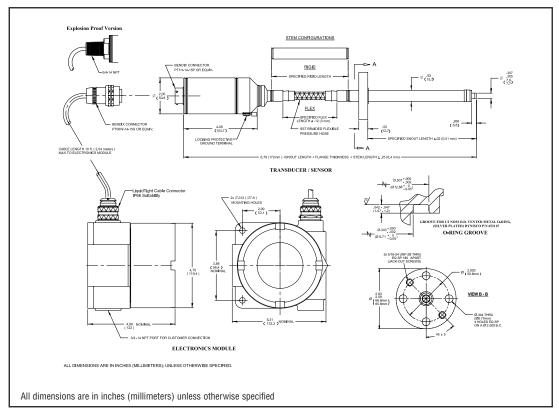
Electronics: ±0.15% span/99°F (±0.15% span/55°C)

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)



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#### **Ordering Guide**

Model	Diaphr	agm Material	Pressure Range							Snout Lengths			
	Code	Description	Code		psi		Code		bar		Code	Length	
N1194: No Approvals	(Blank)	15-5 PH SST	1.5M	0	-	1,500	1CB	0	-	100	6	6" (152)	
\$1194: Intrinsically Safe		with	3M	0	-	3,000	2CB	0	-	200			
EE x ia IIC		Dymax®	5M	0	-	5,000	3.5CB	0	-	350			
E1194: Explosion-Proof		coated	7.5M	0	-	7,500	5CB	0	-	500			
Class 1, Division 1,		diaphragm	10M	0	-	10,000	6.8CB	0	-	680	For non- standard lengths please consult facto		
Groups B, C and D	Н	Hastelloy											
Class II/III, Division 2,													
Groups E, F and G													

Stand	Standard Stem (Extension) Lengths		Temperature Output		LCD Display		nication Protocol	Options		Cable Length	
Code	Length	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
0 18	0" (0) 18" (457)	(Blank)	No second 4-20mA output	(Blank) D2	No display Programmable	Н	HART configurable	M625	Full snout temperature	(Blank)	120" (3048)
30	30" (762)	T	Second 4-20mA output		pressure and temperature display				compensated to 660°F (350°C)	L72	72" (1829)
1	For non-standard lengths please consult factory Note: Max. "snout & capillary" lengths is 36" (914)									safe mod	ntrinsically lels are supplied (1824) of cable.

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

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.

