DYNISCO MODEL IPX195

Smart Pressure Transmitter for Button-Seal Mounting

Description

Dynisco's IPX195 is the only smart pressure button - seal transmitter with ambient and process temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. The IPX195 is ideal for applications requiring the highest accuracy. The HART® communicator allows remote digital communication (superimposed on the 4 to 20 loop current) to simplify operator access for configuration of transmitter parameters such as tag I.D. zero 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
- LCD display optional
- Pressure and temperature process outputs
  - Pressure variable on 4 to 20 mA signal
  - Temperature variable on HART protocol

Benefits

- Improves process optimization and reduces temperature effects
- Industry standard
- Process industry standard
- Allows use in multiple ranges
- Improved accuracy
- Local indication from a single display
- Two process variables on a HART 4 to 20 mA signal



Specifications

NEW EXTENDED LIFE COATING

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)
±0.50% of range: Within pressures of 0 psig to 20% of range (±1.00% for 750 psi range)

Resolution: 0.035% or better
Zero span and adjustment:
Zero: +80% of range
Span: 20% to 100% of range
Turn-down: 5 : 1 maximum
Overpressure limit: 1.5 x range
Sample rate: ≤50 msec
Long term stability: <0.09% of span per year

Temperature Characteristics

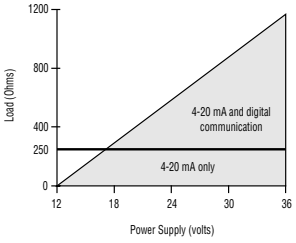
Operating temperature ranges (compensated):
Process: 77˚F to 575˚F (25˚C to 300˚C) option to 660˚F (350˚C)
Electronics: 77˚F to 140˚F (25˚C to 60˚C)

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: 17 to 36 Vdc
Electronics housing: IP 67, NEMA 4, 6

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)



Optional LCD Display

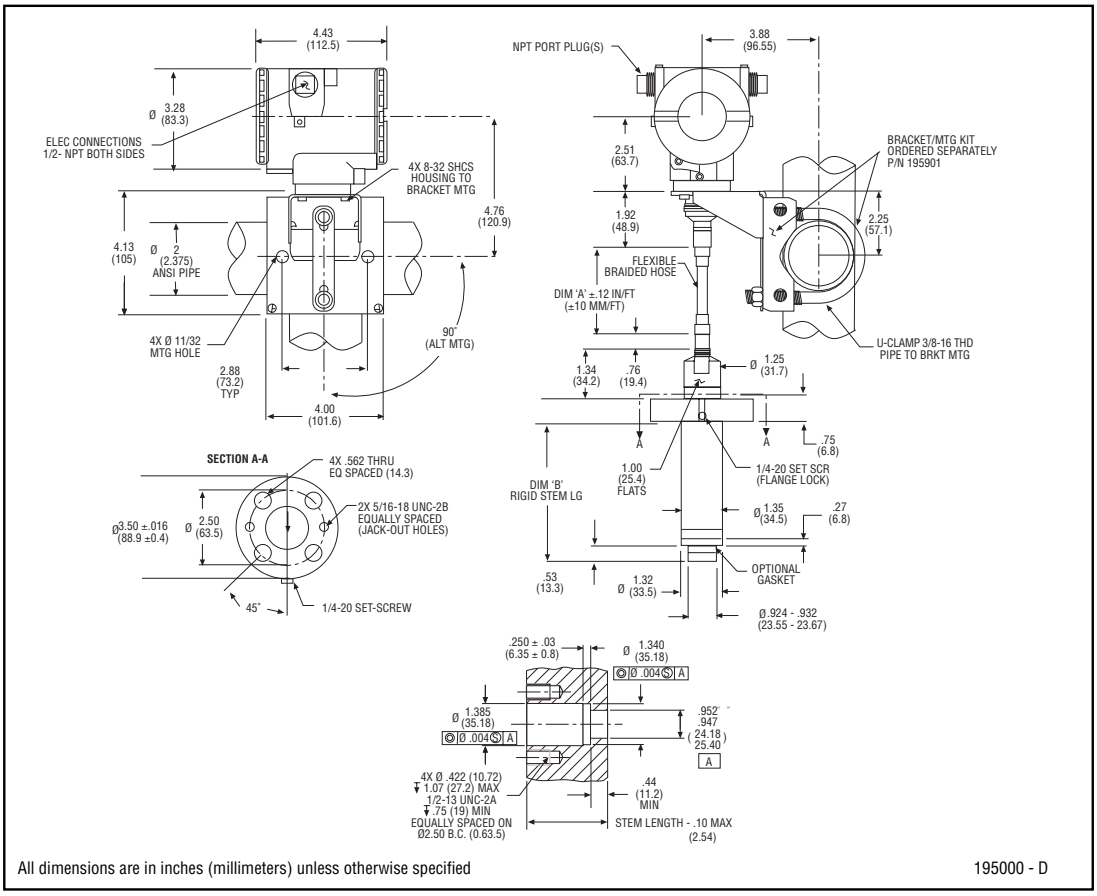
Two lines: Top line 4.5 digits; bottom line 5 characters; Displays process pressure and temperature simultaneously

Approvals

CSA approved, Class I, Division II, Groups A, B, C and D
FM approved, Class I, Division II, Groups A, B, C and D

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All dimensions are in inches (millimeters) unless otherwise specified

195000 - D

Ordering Guide

Model	Approvals		Display		Diaphragm		Pressure Range					Rigid Stem		Flexible Stem		Options	
	Description		Code	Description	Code	Material/Coating	Code	psi		Code	bar	Code	Length	Code	Length	Code	Description
IPX195FM	Factory Mutual Approved Class I, Division II, Groups A, B, C & D		(Blank)	No display	(Blank)	15 - 5 PH SST	1.5M	0	- 1,500	1CB	(0 - 100)	4.77	4.77 (121)	30	30 (762)	M625	Temperature compensated to 350°C
			I	In - line display (pressure & process temperature displayed)		with DyMax™ Coating	3M	0	- 3,000	2CB	(0 - 200)	5.00	5.00(127)				
							5M	0	- 5,000	3.5CB	(0 - 350)						
					H	Hastelloy	7.5M	0	- 7,500	5CB	(0 - 500)						

Ordering Example: IPX195FMI - 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: • Mounting bracket P/N195901 recommended.
• Consult factory for flange size and rating.

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