DYNISCO MODEL IPX194
Smart Multi-Variable Transmitter for Flange Mounting

Description
Dynisco's IPX194 provides the most accurate pressure measurement available with ambient and process temperature compensation, featuring a thin film sensor and proprietary fabrication techniques. Remote digital communication utilizing the HART® protocol and HART hand held communicator enables re - ranging of the transmitter for maximum control of your process.

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 removes temperature effects
- Industry standard
- Process industry standard
- Allows use in multiple ranges
- Improved accuracy
- Dual readout from a single display
- Two process variables on a HART 4 to 20 mA signal



Specifications

Performance Characteristics
Ranges:
psi: 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500
bar: 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 1500 psi range)
±0.25% of range: Within pressures of 0 psig to 20% of range and above process temperatures (±0.50% for 1500 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)
Hastelloy ±0.50% of range: Within pressures of 0 psig to 20% of range and above process temperatures (±1.00% for 1500 psi range)

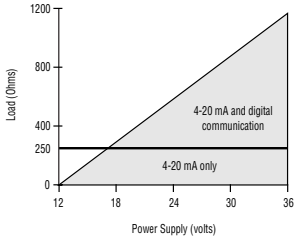
Resolution: 0.035% or better
Zero span and adjustment:
Zero: +80% of range
Span: 20% to 100% of range
Turn-down: 5 : 1 maximum
Overpressure limit: 1.5 x range
Sample rate: ≤50 msec
Long term stability: <0.09% of span per year

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/130˚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)



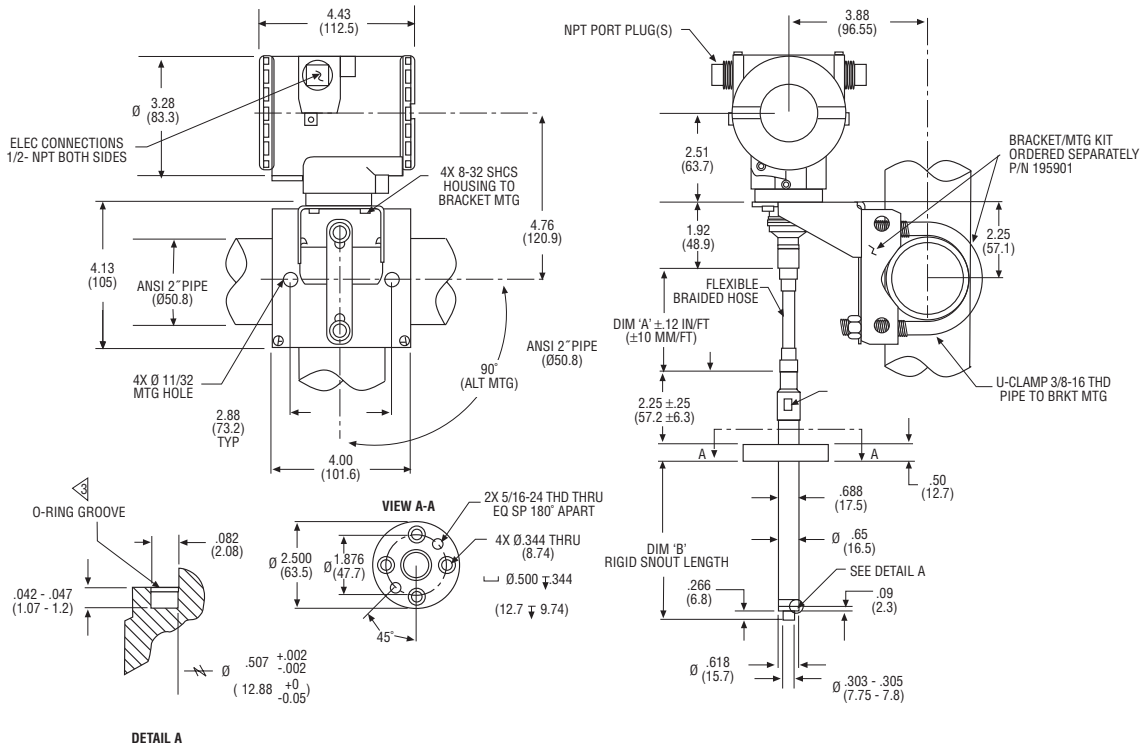
(Shown for standard unit without LCD display)

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

Approvals (optional)
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

194010 - A

Ordering Guide

Model	Approvals		Display		Diaphragm		Pressure Range				Rigid Stem		Flexible Stem		Options	
	Code	Description	Code	Description	Code	Material/Coating	Code	psi	Code	bar	Code	Length	Code	Length	Code	Description
IPX194	(Blank)	Standard	(Blank)	No display	(Blank)	15 - 5 PH SST	1.5M	0 - 1,500	1CB	(0 - 100)	6	6 (152)	30	30 (762)	M535	Max. process temp. to 750˚F (400˚C)
	FM	Factory Mutual Approved Class I, Division II, Groups A, B, C & D	I	In - line display (pressure & process temperature displayed)	H	Hastelloy	3M	0 - 3,000	2CB	(0 - 200)					M625	Temperature compensated to 350˚C
							5M	0 - 5,000	3.5CB	(0 - 350)					M626	Accuracy to 0.15% (1.5M)
							7.5M	0 - 7,500	5CB	(0 - 500)						

Ordering Example: IPX194IH - 1.5M - 6/30 - MXXX

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.

- Mounting bracket P/N195901 recommended
- Consult factory for flange size and rating

Delivery

Please call for specific delivery information.

CALL: 1-800-DYNISCO (396-4726) FAX: 1-800-835-6543 WWW.DYNISCO.COM TECHNICAL HELP: CALL 1-800-221-2201 OR 1-800-443-7654
OUTSIDE THE U.S. CALL: 1-781-784-8400 FAX: 1-781-784-6139