



## PRESSURE TRANSMITTER

## Model IGP10



#### **FEATURES**

- Intelligent HART / 4-20 mA version or economical 4 to 20 mA version
- Compact light weight and direct to processing mounting
- Corrosion-resistant epoxy finish
- Accuracy to ±0.07% of span
- Push button configuration/LCD indicator to set-up displays
- Field-proven silicon strain gauge technology
- Ambient temperature effects to ±0.2% URL per 100°F (55°C)

#### TYPICAL APPLICATIONS

- Fuel tank level
- Offshore oil rigs
- Process control
- Sanitary
- · Pulp & paper
- Chemical process

## **EXCEPTIONAL VALUE**

The combination of small size, light weight, direct mounting, standard materials, and wide measurement capability with high performance make this an exceptionally cost effective solution for process pressure measurement.

#### **DIRECT PROCESS MOUNTING**

Because of their light weight and external threaded connection, these transmitters can be installed directly on process piping without mounting brackets. However, for unique requirements, an optional bracket is offered and connection can be made to the standard 1/4 NPT internal thread.

#### WIDE RANGEABILITY

Three absolute pressure versions are offered to allow spans from 1 to 3000 PSI (7 to 21 000 kPa), and four gauge pressure versions are offered to allow spans from 1 to 6000 PSI (7 to 42 000 kPa).

## **EASILY ADAPTABLE**

With process connection of 316L SS or Hastelloy C, and sensor diaphragm available in either 316L SS, Hastelloy C, or highly corrosion resistant Co-Ni-Cr, this transmitter is an excellent choice for the vast majority of process pressure measurements.



# PRESSURE TRANSMITTER Model IGP10

PERFORMANCE	Full Scale Pressure Range (FSPR)0-30, 300, 3000, 6000 PSI (0-2, 21, 210, 420 bar)			
Accuracy (linearity, hysteresis & repeatability)	Digital output±0.05% of calibrated range			
	4-20 mA output±0.06% of calibrated range			
Process Temperature Range	Silicone Fill Fluid50°F to 250°F (-45°C to 121°C)			
•	Fluorinert Fill Fluid20°F to 250°F (-28°C to 121°C)			
Ambient Temperature Range	Silicone Fill Fluid40°F to 185°F (-40°C to 85°C)			
	Fluorinert Fill Fluid20°F to 185°F (-28°C to 85°C)			
	Ambient Temperature Effect±(0.03% URL + 0.06% span)			
	Communication ProtocolHART, 4-20 mA DC and digital output			
	Stability±0.05% of URL per year			
ELECTRICAL	Supply Voltage11.5 to 43 Vdc			
	Output Load0-1450 Ohms			
Output Signal (as specified)	Version -D ElectronicsDigital FoxCom and/or 4-20 mA DC, configurable			
	Version -T ElectronicsDigital HART and 4-20 mA dc			
	Version -F ElectronicsDigital FOUNDATION fieldbus (FISCO compliant)			
	Version -P ElectronicsDigital Profibus			
	Version -A ElectronicsAnalog 4-20 mA dc			
	Version -V ElectronicsAnalog 1 to 5 V dc, low power			
	RFI Protection			
	Response Time			
MECHANICAL CONNECTION	Process Connection1/4 NPT direct to process connection			
MATERIALS OF CONSTRUCTION	Sensor Fill Fluid			
	Enclosure ClassificationMeets IEC IP66 and NEMA 4X			
	IdentificationLaser etched onto body			

#### SPAN, RANGE LIMIT CODES

Span Code	Span Limits		Range Limits	
	PSI	bar	PSI	bar
С	1 and 30	0.07 and 2.1	0 and 30	0 and 2.1
D	10 and 300	0.7 and 21	0 and 300	0 and 21
E	100 and 3000	7 and 210	0 and 3000	0 and 210
F	2000 and 6000	140 and 420	0 and 6000	0 and 420

## MAXIMUM OVER-RANGE & PROOF PRESSURE RATING

Span Code	Maximum Over-Range		Proof Pressure Rating	
	PSI	bar	PSI	bar
С	45	3.15	120	8.27
D	450	31.5	1200	82.7
E	4500	315	11500	793
F	8400	588	22000	1517



#### **CERTIFICATIONS**

FM/CSA

Intrinsic Safety: (F and C versions) Class 1, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1

Explosion Proof/Dust Ignition Proof: (F and C versions) Class 1, Division 1, Groups B,C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1

Nonincendive (V and C versions): Class 1, Division 2, Groups A, B, C, D; Class II, Division 2, Groups E, F, G; Class III, Division 2

#### GENERAL NOTES

- REPLACEABLE/INTERCHANGEABLE ELECTRONICS MODULE DETERMINES THE ELECTRONICS VERSION AND OUTPUT SIGNAL.
- TOPWORKS CAN BE ROTATED TO ANY POSITION WITHIN ONE TURN COUNTERCLOCKWISE OF THE FULLY TIGHTENED POSITION.
- CONDUIT CONNECTIONS (TWO) ARE EITHER I/2 NPT, M20, OR PG 13.5. PLUG UNUSED CONNECTION WITH METAL PLUG SUPPLIED BY FOXBORO.



