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.

MECO MEASUREMENTS & CONTROLS
Via Paolo Uccello, 4 20148 Milano
Tel. +39 02 4 692 680 Fax +39 02 4 694 602 info@mecoitalia.it www.mecoitalia.it

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 Fluid.....-50°F to 250°F (-45°C to 121°C)
Fluorinert Fill Fluid .....-20°F to 250°F (-28°C to 121°C)

Ambient Temperature Range
Silicone Fill Fluid.....-40°F to 185°F (-40°C to 85°C)
Fluorinert Fill Fluid .....-20°F to 185°F (-28°C to 85°C)

Ambient Temperature Effect .....±(0.03% URL + 0.06% span)
Communication Protocol .....HART, 4-20 mA DC and digital output
Stability.....±0.05% of URL per year

ELECTRICAL

Supply Voltage.....11.5 to 43 Vdc
Output Load .....0-1450 Ohms

Output Signal (as specified)
Version -D Electronics.....Digital FoxCom and/or 4-20 mA DC, configurable
Version -T Electronics .....Digital HART and 4-20 mA dc
Version -F Electronics .....Digital FOUNDATION fieldbus (FISCO compliant)
Version -P Electronics .....Digital Profibus
Version -A Electronics .....Analog 4-20 mA dc
Version -V Electronics .....Analog 1 to 5 V dc, low power
RFI Protection.....0.1% error between 27% 1000 MHz at 30 V/m field intensity
Response Time.....5.0 seconds for output to reach first valid measurement

MECHANICAL CONNECTION

Process Connection .....1/4 NPT direct to process connection

MATERIALS OF CONSTRUCTION

Sensor Fill Fluid .....Dow Corning DC200 or 3M Fluorinert FC43
Enclosure Classification.....Meets IEC IP66 and NEMA 4X
Identification.....Laser etched onto body

SPAN, RANGE LIMIT CODES

Span Code	Span Limits		Range Limits	
	PSI	bar	PSI	bar
C	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
C	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

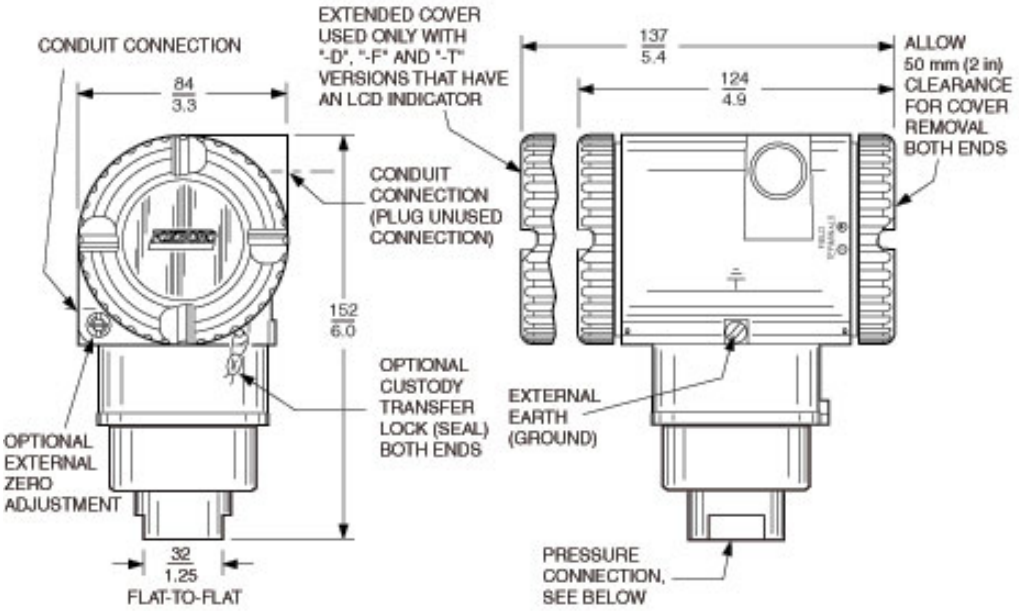
Intrinsic Safety: (F and C versions) Class 1, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1

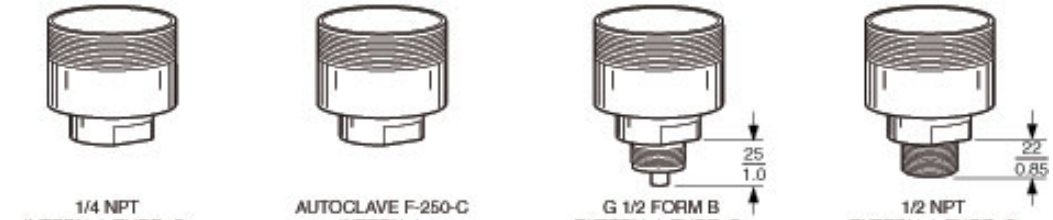
Explosion Proof/Dust Ignition Proof: (F and C versions) Class 1, Division 1, Groups B,C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1

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

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





1/4 NPT INTERNAL THREAD PROCESS CONNECTION STANDARD WITH SPAN LIMIT CODES K AND G; NOT AVAILABLE WITH SPAN LIMIT CODE H.

AUTOCLAVE F-250-C INTERNAL PROCESS CONNECTION STANDARD WITH SPAN LIMIT CODE H; OPTIONAL (CODE -G1) WITH SPAN LIMIT CODES K AND G.

G 1/2 FORM B EXTERNAL THREAD PROCESS CONNECTION OPTIONAL (CODE -G) WITH SPAN LIMIT CODES K AND G; NOT AVAILABLE WITH SPAN LIMIT CODE H.

1/2 NPT EXTERNAL THREAD PROCESS CONNECTION OPTIONAL (CODE -G2) WITH SPAN LIMIT CODES K AND G; NOT AVAILABLE WITH SPAN LIMIT CODE H.

Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time.

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Viatran A Dynisco Company