

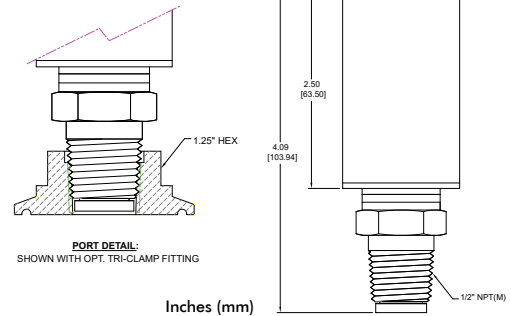
MODEL 311-IM

HAZARDOUS LOCATION FLUSH MOUNT PRESSURE TRANSDUCER



STANDARD WIRING

PIN	MODEL 311-IM
A/1/RED	+EXC/SIG
B/2/GRN	CASE GND
C/3/WHT	N/C
D/4/BLK	-EXC/SIG
E/5/BLU	+SHUNT (OPT.)
F/6/BRN	-SHUNT (OPT.)



**REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

PRODUCT OVERVIEW:

The Model 311-IM from GP:50 is a flush mounted, hazardous location approved pressure transducer, designed to provide added reliability within slurry or thick process media applications. Their rugged, all-welded flush mounted design facilitates accurate measurements of corrosive or higher viscosity media, in applications where non-flush port sensors are otherwise prone to clogging or damage. No zero offset is caused during sensor installation.

FEATURES:

- Flush sensor eliminates media plugging
- 0-50 thru 0-750 PSI (4 thru 50 BAR)
- No zero offset due to installation
- FM, CSA, ATEX, and IEC approvals
- Rugged, all-welded stainless steel design
- Optional 5X proof pressure
- Optional tri-clamp adapter

APPLICATIONS:

- Blender discharge
- Frack pump suction pressure
- Wellhead control
- Sludge and slurries
- Adhesives and paints

OPTIONS:

- **FM, FM/CSA:** Class I/II/III, Div 1, Grps A-G, T6 at Ta=40C
- **FM:** Class I, Zone 2 AEx nC IIC T5, Class I, Div. 2, Grp. A, B, C, D Class II, Grp. E, F, G, Class III T5, Ta = 80C
- **CSA:** Ex nA IIC T5, Ex nL IIC T5, Class I Div. 2 Grp. A, B, C, D Class II Div. 2 Grp. E, F, G Class III T5, Ta=80C
- **ATEX:** CE0575 II 3 G Ex nA IIC, Ex ic IIC T5, Ta=80C
- **IEC:** Ex na IIC, Ex ic IIC T5, Ta=80C (all Zone 2/Div 2 approvals are electrical connector dependent)

For details of available approvals go to:
<https://www.gp50.com/certifications>

GP:50 MODEL 311-IM

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	4-20 mA
Excitation Voltage:	10 to 28 Vdc
Load Impedance:	750 Ω max. to 24 Vdc
Insulation Resistance:	> 10 M Ω @ 50 Vdc, +70 °F
Circuit Protection:	RFI and EMI
Response Time:	<5 ms 10% to 90%

MATERIALS OF CONSTRUCTION	
Wetted Parts:	Inconel 718 and 316 stainless steel (optional Hastelloy, consult factory)
Housing:	316 stainless steel

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F	
Standard:	$\pm 0.5\%$
Improved:	$\pm 0.2\%$
Zero Balance and FSO:	$\pm 1.0\%$ at +70 °F

MECHANICAL	
Process Connection:	1/2" NPT (M)
Electrical Connection:	6-pin Bendix connector (other options available)
Proof Pressure:	2X FSO (5X optional)
Burst Pressure:	5X FSO
Approximate Weight:	0.7 lb (260 g) nominal options may increase weight

PRESSURE RANGES	
0 to 50 PSI thru 0 to 750 PSI (0 to 3 thru 0 to 50 BAR) (PSIG, PSIS, PSIA)	

THERMAL SPECIFICATIONS	
Operating Range:	-40 °F to +176 °F (-40 °C to +80 °C)
Compensated Range:	0 °F to +180 °F (-18 °C to +82 °C)
Storage Ambient:	-65 °F to +250 °F (-53 °C to +121 °C)
Effect on Zero/Span:	$\pm 2.0\%$ FSO/100 °F

APPROVALS	
FM, FM/CSA: Class I/II/III, Div 1, Grps A-G, T6 at Ta=40C	
FM: Class I, Zone 2 AEx nC IIC T5, Class I, Div. 2, Grp. A, B, C, D Class II, Grp. E, F, G, Class III T5, Ta = 80C	
CSA: Ex nA IIC T5, Ex nL IIC T5, Class I Div. 2 Grp. A, B, C, D Class II Div. 2 Grp. E, F, G Class III T5, Ta=80C	
ATEX: CE0575 II 3 G Ex nA IIC, Ex ic IIC T5, Ta=80C	
IEC: Ex na IIC, Ex ic IIC T5, Ta=80C (all Zone 2/Div 2 approvals are electrical connector dependent)	

FLUSH DIAPHRAGM

