HAZARDOUS LOCATION FLUSH MOUNT PRESSURE TRANSUDER

MODEL 311-IM

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

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.

APPROVALS:
- FM, FM/CSA: Class I/II/III, Div 1, Grps A-G, T6 at Ta=40C
  - 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)
DIMENSIONAL DRAWING
All dimensions are in inches (mm)

ELECTRICAL
• Excitation Voltage: 10 to 28 Vdc
• Output Signal: 4-20 mA
• Circuit Protection: RFI and EMI
• Load Impedance: 750 Ω max. to 24 Vdc
• Insulation Resistance: >10 MΩ @ 50 Vdc, +70 °F
• Response Time: <5 ms 10% to 90%
• Connection: 6-pin Bendix connector (other options available)

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

STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
Standard: ±0.5%, ±0.2%
Zero Balance and FSO: ±1% at +70 °F

MECHANICAL
• Process Connection: 1/2" NPT (M)
• 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
• Compensated: 0 °F to +180 °F (-18 °C to +82 °C)
• Operating Process: -40 °F to +176 °F (-40 °C to +80 °C)
• Storage: -65 °F to +250 °F (-53 °C to +121 °C)
• Effect on Zero/Span: ±2.0% FSO/100 °F

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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