MODEL 111/211/311X/P & 311N/AN/GN

FEATURES:
- 0 to 5 PSI thru 0 to 75K PSI (75 MBAR to 1,034 BAR)
- FM, CSA, ATEX & IEC approvals
- Welded, rugged construction
- Optional high overpressure protection
- Available in NACE MR-01-75 compliant wetted parts

APPLICATIONS:
- Rig safety systems
- Well head control
- Gas pipeline
- Control panels
- On-board transmission & engine monitoring

PRODUCT OVERVIEW:
GP:50’s Model 11 series provides a rugged solution in hazardous approved areas. The all welded, stainless steel design provides years of reliable service in some of the harshest applications.

APPROVALS:
- FM, FM/CSA: Class I/II/III, Div 1, Grps A-G, T6 at Ta=40C
- Zone 2 / Division 2:
  - 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 IIIC, Ex ic IIIC T5, Ta=80C
  
  (all Zone 2/Div 2 approvals are electrical connector dependent)
  
  For Intrinsically Safe Approval see 311Z, I, GI, AI Data Sheet (A5SL-024)
**GP:50 MODEL 111/211/311X/P & 311N/AN/GN**

**DIMENSIONAL DRAWING**
All dimensions are in inches (mm)

<table>
<thead>
<tr>
<th>STANDARD WIRING</th>
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**REFERENCE SPECIFICATIONS**

### ELECTRICAL
- **Excitation Voltage:**
  - (Model 111X/P) 3.5 to 15 Vdc
  - (Model 211X/P) 10.5 to 32 Vdc
  - (Model 311X/P) 9 to 36 Vdc
  - (Model 311 N/AN/GN) 10 to 28 Vdc
- **Output Signal:**
  - (Model 111) 3 mV/V
  - (Model 211) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available)
  - (Model 311) 4-20 mA
- **Load Impedance:**
  - (Model 211) 50 Ω max. 24 Vdc
  - (Model 311) 750 Ω max. 24 Vdc
- **Input Impedance:**
  - (Model 111) 5K or 350 Ω nominal
- **Input Current:**
  - (Model 211) 8mA nominal
- **Insulation Resistance:** >10 MΩ at 50 Vdc and +70 °F
- **Response Time:** <5 ms 10% to 90%
- **Connection:** 1/2” NPT M conduit w/ 6ft 18 AWG multi-conductor cable

### MATERIALS OF CONSTRUCTION
- **Wetted Parts:** 17-4 PH stainless steel*
  - *316L SS and Inconel 718 for NACE MR-01-75
- **Housing:** 316 stainless steel

### STATIC ACCURACY (NON-LINEARITY @ +70 °F (BFSL))
- Standard ±0.5%
- Improved ±0.2% and ±0.1%
- Zero Balance and FSO: ±1% FSO at +70 °F

### MECHANICAL
- **Process Connection:** 1/4” NPT (F) for ranges <20 KPSI (1.4 BAR) High pressure coned fittings for ranges 20K to 75K PSI (1,379 to 5,171 BAR)
- **Proof Pressure:** 1.5X FSO ≤30K PSI, 1.2X FSO >30K PSI
- **Burst Pressure:** 2.5X FSO ≤10K PSI, 5X FSO >10K PSI and ≤30K PSI, 1.5X ≤75K PSI
- **Approximate Weight:** 1 lb (0.5 kg) nominal, options may increase weight
- **Unit designed** to meet or exceed IP67 Rating. (Some options may affect rating, consult factory)

### PRESSURE RANGES
- 0 to 5 PSI thru 0 to 75K PSI (0 to 0.3 BAR thru 0 to 5,171 BAR)
- (PSIG, PSIS, PSIA, PSIV & compound ranges available)

### THERMAL SPECIFICATIONS
- **Compensated:** 0 °F to +180 °F (-17.7 °C to +82 °C)
- **Operating:** -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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