

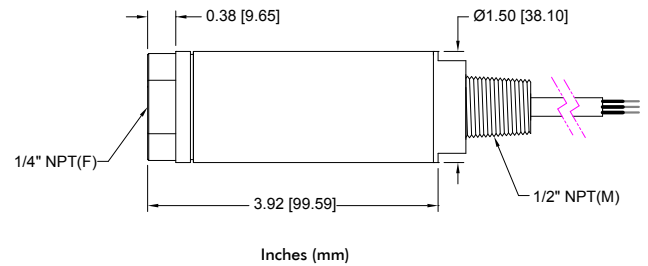


MODEL 111/211/311X/P & 311N/AN/GN EXPLOSION PROOF & ZONE 2 / DIV 2 PRESSURE TRANSMITTER



STANDARD WIRING

| WIRE | MODEL 111X/P | MODEL 211X/P | MODEL 311X/P/N/AN/GN |
|---------|--------------|--------------|----------------------|
| RED | +EXC | +EXC | +EXC/SIG |
| GRN | +SIG | CASE GND | CASE GND |
| WHT | -SIG | +SIG | N/C |
| BLK | -EXC | -EXC/SIG | -EXC/SIG |
| GRN/YEL | CASE GND | N/C | N/C |



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



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.

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
- Wellhead control
- Gas pipeline
- Control panels
- On-board transmission & engine monitoring

OPTIONS:

- FM, CSA, ATEX & IEC Explosion proof or Div 2/Zone 2 Approvals*

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



GP:50 MODEL 111/211/311X/P & 311N/AN/GN

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

| ELECTRICAL | |
|---------------------|--|
| Output Signal: | (111) 3 mV/V (Amplified Output) (211) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available) (311) 4-20 mA |
| Excitation Voltage: | (111X/P) 3.5 to 15 Vdc (211X/P) 10.5 to 32 Vdc (311X/P) 9 to 36 Vdc (311 N/AN/GN) 10 to 28 Vdc |
| Bridge Resistance: | (111): 4K-6K Ω (Amplifier on output stage) (Options available) |
| Load Impedence: | (Model 211) 50 Ω max. 24 Vdc (Model 311) 750 Ω max. 24 Vdc |
| Input Current: | (Model 211) 8mA nominal |
| Circuit Protection: | (211/311): RFI, EMI & Reverse polarity protected |
| Response Time: | <5 ms 10% to 90% |

| MATERIALS OF CONSTRUCTION | |
|---------------------------|--|
| Wetted Parts: | 316 or 17-4 PH stainless steel (Options available, consult factory) |
| Housing: | 316 stainless steel |
| Internal Fill: | \leq 2000 PSI Silicone Oil (Fomblin Optional) |

| ACCURACY (Non-Linearity & Repeatability @ +70 °F (BFSL)) | |
|---|----------------------------------|
| Standard: | \pm 0.5% FSO |
| Improved: | \pm 0.2% FSO or \pm 0.1% FSO |
| Zero & Span Balance: | \pm 1% FSO at +70 °F |

| MECHANICAL | |
|--|---|
| Process Connection: | 1/4" NPT (F) for ranges <20 K PSI (1.4 BAR) High pressure coned fittings for ranges 20K to 75K PSI (1,379 to 5,171 BAR) |
| Electrical Connection: | 1/2" NPT M conduit w/6ft 18 AWG multi-conductor cable |
| Proof Pressure: | 1.5X FSO or \leq 30K PSI, 1.2X FSO >30K PSI |
| Burst Pressure: | 2.5X FSO \leq 10K PSI, 5X FSO >10K PSI and \leq 30K PSI, 1.5X \leq 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 | |
|------------------------|---------------------------------------|
| Operating Range: | -40 °F to +176 °F (-40 °C to +80 °C) |
| Compensated Range: | 0 °F to +180 °F (-17.7 °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 | |
| Zone 2 / Division 2 | |
| 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 | |

