



OIL & GAS

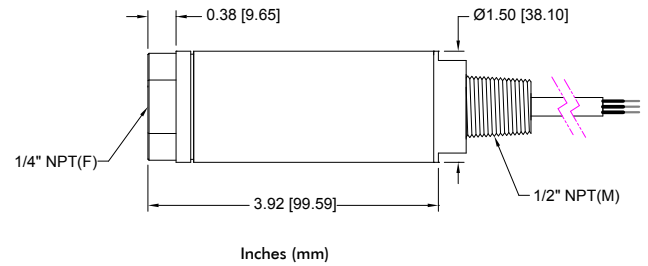
MODEL 111/211/311X/P & 311N/AN/GN

EXPLOSION PROOF & ZONE 2 / DIV 2 PRESSURE TRANSDUCER



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
- Well head 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-6KΩ (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:	≤2000 PSI Silicone Oil (Fomblin Optional)

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

MECHANICAL	
Process Connection:	¼" NPT (F) for ranges <20K PSI (1.4 BAR) High pressure coned fittings for ranges 20K to 75K PSI (1,379 to 5,171 BAR)
Electrical Connection:	½" NPT M conduit w/6ft 18 AWG multi-conductor cable
Proof Pressure:	1.5X FSO or ≤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	
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:	±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	

