

EXPLOSION PROOF & ZONE 2 / DIV 2 PRESSURE TRANSMITTER



FEATURES:

- 0 to 5 PSI thru 0 to 75K PSI (75 MBAR to 1,034 BAR)
- FM, CSA, ATEX & IEC approvals
- Welded, rugged construction
- SERVICE Optional high overpressure protection

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:
- 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 Intrinsically Safe Approval see 311Z, I, GI, AI Data Sheet (A5SL-024)



Model 111X/P, 211X/P, 311X/P & 311N//AN//GN Intrinsically Safe Pressure Transducer





DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING					→ → 0.38 [9.65] Ø1.50 [38.10]	
WIRE	MODEL 111X/P	MODEL 211X/P	MODEL 311X/P/N/AN/GN			
RED	+EXC	+EXC	+EXC/SIG			
GRN	+SIG	CASE GND	N/C			
WHT	-SIG	+SIG	N/C			
BLK GRN/YEL	-EXC CASE GND	-EXC/SIG N/C	-EXC/SIG N/C	1/4" NPT(F		
	E SPECIFICAT	TIONS			3.92 [99.59] // 1/2" NPT(M)	
ELECTRICAL					STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	
• Excitation Voltage: (Model 111X/P) 3.5 to 15 Vdc (Model 211X/P) 10.5 to 32 Vdc					Standard $\pm 0.5\%$ Improved $\pm 0.2\%$ and $\pm 0.1\%$ Zero Balance and FSO: $\pm 1\%$ FSO at $+70$ °F	
(Model 311X/P) 9 to 36 Vdc (Model 311 N/AN/GN) 10 to 28 Vdc					MECHANICAL	
 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 					 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) 	
Input Current:					PRESSURE RANGES	
(Model 211) 8mA nominal					• 0 to 5 PSI thru 0 to 75K PSI (0 to 0.3 BAR thru 0 to 5,171 BAR)	
• Insulation Resistance: >10 M Ω at 50 Vdc and +70 °F) "F	(PSIG, PSIS, PSIA, PSIV & compound ranges available)	
• Response Time: <5 ms 10% to 90%					THERMAL SPECIFICATIONS	
Connection: 1/2" NPT M conduit w/ 6ft 18 AWG subline solution could					• Compensated: 0 °F to +180 °F (-17.7 °C to +82 °C)	
multi-conductor cable					• Operating: -40 °F to +176 °F (-40 °C to +80 °C)	
MATERIALS OF CONSTRUCTION					• Storage: -65 °F to +250 °F (-53°C to +121 °C)	
• Wetted Parts: 17-4 PH stainless steel (Hastelloy C-276 and Inconel available, consult factory)					• Effect on Zero/Span: ±2.0% FSO/100 °F	
• Housing	g: 316 stainle	ess steel				

Standard configurations shown. Please consult factory for other options.

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.

