

INTRINSICALLY SAFE PRESSURE TRANSDUCER



Model 311 Z, I, GI, AI Intrinsically Safe Pressure Transducer







MODEL 311Z, I, GI, AI

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

APPLICATIONS:

- Rig safety systems
- Wellhead control
- Gas pipeline
- Control Panels
- On-board transmission & engine monitoring

PRODUCT OVERVIEW:

The GP:50 Model 311Z, I, GI, Al intrinsically safe pressure transducer for Blue Ribbon Corporation offers a rugged solution in hazardous approved areas. The transducer's all-welded stainless steel design provides years of reliable service in some of the harshest applications.

FIELD OPTIONS:

- FM, CSA, ATEX, IEC Intrinsically Safe
- Zero & Span adjust
- Alternate connectors & pressure ports
- For explosion-proof, see Model 311X/P



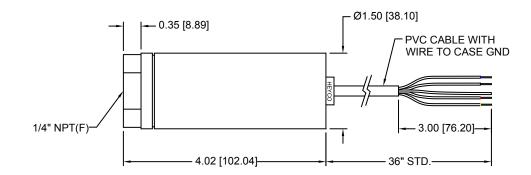
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DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 311Z/I/GI/AI
1/RED	+EXC/SIG
2/GRN	CASE GND
3/WHT	N/C
4/BLK	-EXC/SIG



REFERENCE SPECIFICATIONS

ELECTRICAL

• Excitation Voltage:

(311Z): 9 to 36 Vdc excitation (311I, GI, AI): 10 to 28 Vdc excitation

• Output Signal: 4-20 mA output

• Load Impedance: 750Ω max. to 24 Vdc

• Insulation Resistance: >10 MΩ @ 50 Vdc, +70 °F

• Response Time: 5 ms 10% to 90%

 Connection: 36" long PVC Jacketed, 18 AWG, 4 conductor cable (or equivalent)

MATERIALS OF CONSTRUCTION

 Wetted Parts: 316 or 17-4 PH stainless steel (options available, consult factory)

• Housing: 316 stainless steel

STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

• Standard: ±0.5%

• Improved: $\pm 0.20\%$ and $\pm 0.1\%$

MECHANICAL

- Zero Balance and FSO: ±1% FSO at+70 °F
- Process Connection: 1/4" NPT (F) for ranges <20 KPSI (1.4 BAR) High pressure coned fittings for ranges 20K to 75K PSI
- Proof Pressure: 2X FSO or 22,500 PSI (1,551 BAR), whichever is less
- Burst Pressure: 5X FSO or 22,500 PSI (1,551 BAR), whichever is less
- Approximate Weight: 10 oz, (0.3 kg) nominal, options may increase weight

PRESSURE RANGES

• 0 to 5 thru 0 to 75K PSI (0 to 0.3 thru 0 to 5,171 BAR) (PSIG, PSIS, PSIA, PSIV & Compound ranges available)

THERMAL SPECIFICATIONS

- Compensated: 0 °F to +180 °F (-18 °C to +82 °C)
- Operating Process: $-40 \,^{\circ}\text{F}$ to $+176 \,^{\circ}\text{F}$ ($-40 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$)
- Storage: -65 °F to +250 °F (-53 °C to +121 °C)
- Effect on Zero/Span: $\pm 2.0\%$ 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 Blue Ribbon Corporation for assistance with your application.



Toll Free: +1.877.774.4751 Tel: +1.716.773.9300 Fax: +1.716.773.5019 Email: BRsales@blueribboncorp.com Web: www.blueribboncorp.com