

INTRINSICALLY SAFE PRESSURE TRANSDUCER

Pressure Transdor Model No. STZ-DB0 Senia No. DB0 FressureRanga DB0 Excitation 7-38 Vd Output: 4 – 20 mA RED: #BC/SS SLACK — BC/SS SHELD = CASE GB

Model 311Z, 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
- 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.

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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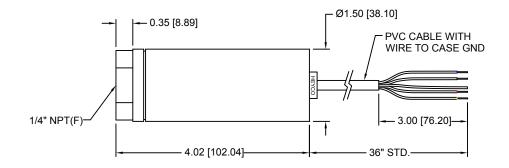
GP:50 MODEL 311Z, I, GI, AI

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
- Circuit Protection: RFI and EMI
- Load Impedance: 750 Ω max. to 24 Vdc
- Insulation Resistance: $>10~M\Omega$ @ 50 Vdc, $+70~^{\circ}F$
- **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 (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

Standard ±0.5%

Improved $\pm 0.2\%$ 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 (1,379 to 5,171 BAR)

- 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 °F to +176 °F (-40 °C to +80 °C)
- Storage: -65 °F to +250°F (-53 °C to +121 °C)
- Effect on Zero/Span: $\pm 2.0\%$ FSO/100 °F

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.

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