



HAZARDOUS LOCATION PRESSURE TRANSMITTER

MODEL BR240/340 AI/AN/AF



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Hazardous Location Pressure Transmitter

FEATURES:

- Compact design for easier installation
- All stainless steel welded rugged construction
- ATEX & IEC Approvals
- Improved accuracy and thermally compensated
- Ranges 0 to 1 PSI thru 0 to 50K PSI (69 Mbar to 3447 Bar)
- NACE MR-01-75 compliant wetted parts available

APPLICATIONS:

- Natural Gas Compression
- Rig safety systems
- Well head control
- Control panels
- On-board transmission & engine monitoring

PRODUCT OVERVIEW:

Model 40 series from Blue Ribbon Corp incorporates over 25 years of oil field proven design in a 1" diameter package. The 40 series provides a rugged solution for hazardous approved areas, especially where space constraints are a concern. Its all-welded stainless steel design will provide years of reliable service in some of the harshest environments.

APPROVALS:

Currently Available:

- ATEX/IEC Intrinsically Safe: II 1 G Ex ia IIC T5 Ga
- ATEX/IEC Zone 2: II 3 G Ex nA/ic IIC T5 Gc
- ATEX/IEC Flameproof: II 2 G Ex b T4 to T6

Pending:

- FM/CSA: Intrinsically Safe: Class I, Division 1, Groups A-G, T5, Ex ia IIC T5
- FM/CSA: Division/ Zone 2: Class I Division 2, Groups A-G, T5, Ex nC/nA/nL T5

Current Approvals:



Pending Approvals:



BR5SL-TX-016
REV-D

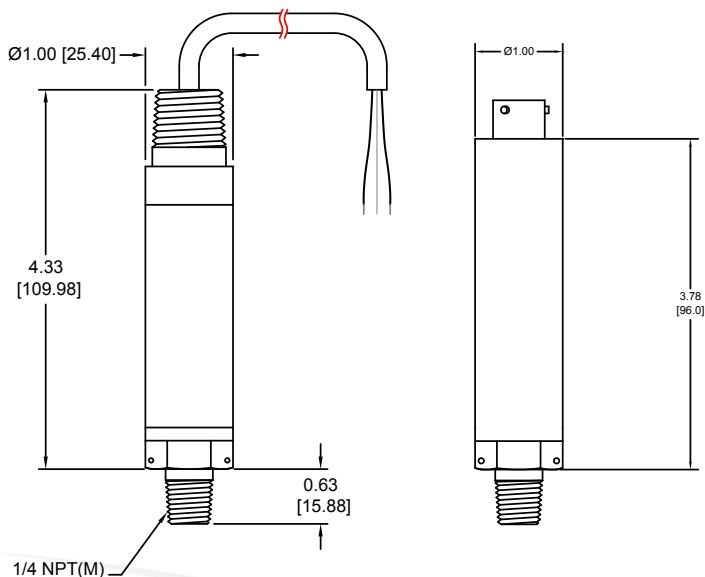
HAZARDOUS LOCATION PRESSURE TRANSDUCER

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING CONFIGURATION

PIN OR WIRE COLOR	MODEL 240	MODEL 340
A/1/RED	+EXC	+EXC/SIG
B/2/GRN	+SIG	CASE GND
C/3/WHT	CASE GND	N/C
D/4/BLK	-EXC/SIG	-EXC/SIG
E/5/BLU	N/C	N/C
F/6/BRN	N/C	N/C



REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> Excitation Voltage: (Model 240) 9 to 28 Vdc (Model 340) 10 to 28 Vdc Output Signal: (Model 240) 0-5 Vdc, 1-5Vdc, and 0-10Vdc (Model 340) 4-20 mA Load Impedance: (Model 240) 50K Ω max. 24 Vdc (Model 340) 750 Ω max. 24 Vdc Input Current: (Model 240) 8 mA nominal Insulation Resistance: > 10 MΩ at 50 Vdc and +70 °F EMI Specs: EMC directive 2004/108/EC, EN 61326 emission Connection: 1/2" NPT M conduit w/ 6ft 18 AWG multi-conductor cable (options available)
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> Wetted Parts: \leq2000 PSI NACE MR-01-75 compliant 316L SST w/silicon oil fill (Fomblin oil fill available, consult factory) >2000 PSI 17-4 PH SST NACE MR-01-75 compliant Inconel 718 available Housing: 316 stainless steel

STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> Standard $\pm 0.20\%$ FSO Optional $\pm 0.10\%$
Zero Balance and FSO: $\pm 1\%$ FSO at +70 °F
MECHANICAL
<ul style="list-style-type: none"> Process Connection: 1/4" NPT (M), options available Proof Pressure: 2X FSO up to 20K PSI, 1.2X > 20K PSI Burst Pressure: 5X FSO up to 20K PSI, 1.5X > 20K PSI Approximate Weight: 0.5 lb nominal, options may increase weight Environmental: Design to meet IP67 (Some options may affect this. Consult factory if critical.)
PRESSURE RANGES
<ul style="list-style-type: none"> 0 to 1 PSI thru 0 to 50K PSI, some options may affect range (PSIG, PSIS, PSIA, PSIV & compound ranges available)
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> Compensated: 0 °F to +180 °F (-18 °C to +82 °C) Operating: -40 °F to +250 °F (-40 °C to +121 °C) (Hazardous Approval Area rating may affect limits) Storage: -65 °F to +250 °F (-53 °C to +121 °C) Effect on Zero/Span: $\pm 1.0\%$ 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.

