



HAZARDOUS LOCATIONS PRESSURE TRANSMITTER



Model 240/340 AI/AN/AF
Hazardous Locations Pressure Transmitter

Current Approval:



Pending Approval:



MODEL 240/340 AI/AN/AF

FEATURES:

- Compact design for easier installation
- All stainless steel welded 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:

GP:50's Model 40 series 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

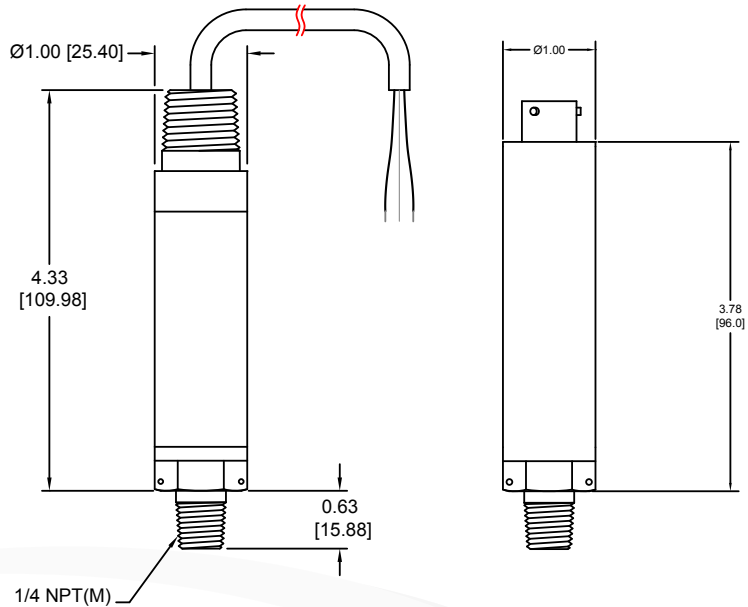
GP:50 MODEL 240/340 AI/AN/AF HAZARDOUS LOCATIONS

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

- **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 M Ω 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

- **Wetted Parts:**
≤2000 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)

- **Standard** $\pm 0.20\%$ FSO
- **Optional** $\pm 0.10\%$

Zero Balance and FSO: $\pm 1\%$ FSO at +70 °F

MECHANICAL

- **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

- 0 to 1 PSI thru 0 to 50K PSI, some options may affect range (PSIG, PSIS, PSIA, PSIV & compound ranges available)

THERMAL SPECIFICATIONS

- **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

**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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