

## COMPACT INDUSTRIAL PRESSURE TRANSDUCER

### MODEL 140, 240, 340



Model 140/240/340  
Compact Industrial  
Pressure Transducer

#### FEATURES:

- Compact design for ease of installation
- Rugged, all stainless, welded construction
- Ranges 0 to 1 PSI thru 0 to 30K PSI (69 Mbar to 2068 Bar)
- 4-20mA, Vdc or MV/V output
- Optional process and electrical connections

#### APPLICATIONS:

- Automotive
- Industrial OEM
- On-board vehicle
- Compressor Controls
- Pneumatic/ Hydraulic Controls

#### PRODUCT OVERVIEW:

The model 40 series provide a compact, rugged design to meet the demands of hydraulic and pneumatic applications found in process automation, test stand, and OEM applications. Its rugged stainless steel design offers high corrosion resistance in pressure ranges from 0-25" WC (69 Mbar) to 30K PSI (2068 bar).

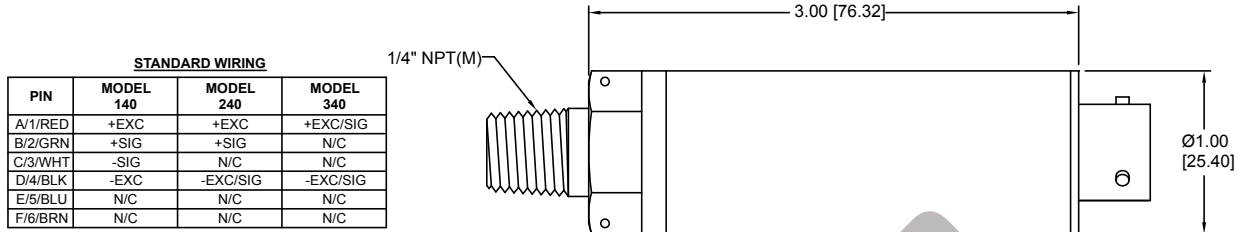
#### FIELD OPTIONS:

- Shunt calibration for active line testing without a pressure source
- Comprehensive list of process and electrical connections for existing application retrofits
- Exotic materials available
- For Hazardous locations see model 240-AI/340-AI

# GP:50 MODEL 140, 240, 340

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)



## REFERENCE SPECIFICATIONS

### ELECTRICAL

- **Excitation Voltage:**  
(Mod I 140) 5.0 to 15 Vdc typical  
(Model 240) 9 to 36 Vdc  
(Model 340) 9 to 36 Vdc
- **Output Signal: (Optional outputs also available)**  
(Model 140) Varies by range and accuracy:  
≤ 1 PSI: 3.0 mV/V  
2 PSI: 8.0 mV/V  
3 PSI - 2,000 PSI: 7-10 mV/V  
2,500 - 15,000 PSI: 2 to 3 mV/V  
> 15K: 2 to 2.5 mV/V  
(Model 240) 0-5Vdc, 0-10Vdc  
(Model 340) 4-20mA
- **Load Impedance:**  
(Model 240) 50K Ω max. 24 Vdc  
(Model 340) 750 Ω max. 24 Vdc
- **Input Impedance:** 2.5K to 8K Ω
- **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:** Bendix PT1H-10-6 stainless steel or equivalent standard, options available

### MATERIALS OF CONSTRUCTION

- **Wetted Parts:**  
≤ 2000 PSI 316L SST w/silicon oil fill (Fomblin oil fill available, consult factory)  
> 2000 PSI 17-4 PH SST (Inconel available, consult factory)
- **Housing:** 316 stainless steel

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

- **Standard** ±0.25% FSO
- **Optional** ±0.10% or ±0.05% FSO
- **Zero Balance and FSO:** ±1.0% FSO at +70 °F

### MECHANICAL

- **Process Connection:** 1/4" NPT (M), options available
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 5X FSO
- **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 30K PSI, some options may affect range (PSIG, PSIS, PSIA, PSIV & compound ranges available)

### THERMAL SPECIFICATIONS

- **Compensated:** 0 °F to +180 °F (-17.7 °C to +82 °C)
- **Operating:** -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:** ±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.