



## VEHICLE TEST PRESSURE TRANSDUCER / TRANSMITTER

### MODEL 142 / 242 / 342

#### FEATURES:

- Ranges 0 to 50 thru 0 to 15K PSI
- Broad operating temperature range of -40 °F to +250 °F (-40 °C to +121 °C)
- Accurate up to  $\pm 0.1\%$  FSO
- All-welded, hermetically sealed, stainless steel
- Compact size

#### APPLICATIONS:

- On-board vehicle testing
- Ground support systems
- Military flight testing
- Hydraulic test stands
- Jet engine test stands

#### PRODUCT OVERVIEW:

Developed from +20 years of aerospace experience, the 42 series was designed with aerospace criteria for industrial applications. The compact all welded construction offers higher accuracies and a broad thermally compensated range. The 42 series has all the performance and durability of an aerospace grade unit, but in industrial grade pricing.

#### FIELD OPTIONS:

- Exotic wetted materials
- Optional process and electrical connections



Model 142 / 242 / 342

Vehicle Test Pressure Transducer / Transmitter

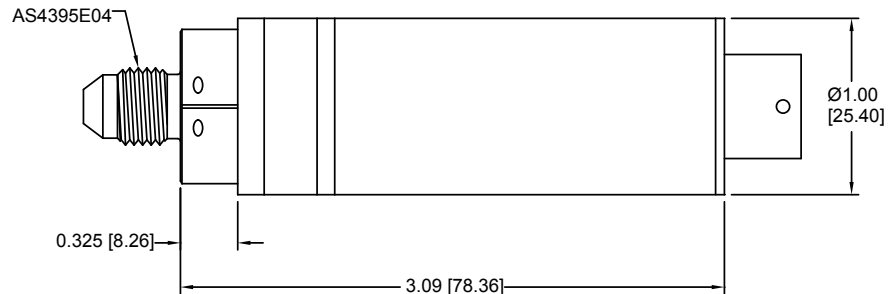
# GP:50 MODEL 142 / 242 / 342

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

PIN	MODEL 142	MODEL 242	MODEL 342
A/1	+EXC	+EXC	+EXC/SIG
B/2	+SIG	+SIG	N/C
C/3	-SIG	N/C	N/C
D/4	-EXC	-EXC/SIG	-EXC/SIG
E/5	N/C	N/C	N/C
F/6	N/C	N/C	N/C



## REFERENCE SPECIFICATIONS

<b>ELECTRICAL</b>	<b>STATIC ACCURACY (BFSL)</b> (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> <li><b>Supply Voltage:</b> (142) 3.5 to 15 Vdc (242) 9 to 40 Vdc (342) 9 to 36 Vdc</li> <li><b>Output Signal:</b> (142) 3.0 mV/V: 0.5% FSO at +70 °F (242) 0 to 5.0 Vdc: ±0.5% FSO at +70 °F (342) 4-20 mA: ±0.5% FSO at +70 °F</li> <li><b>Input Impedance:</b> (142) 5K Ω nominal, 350 Ω optional</li> <li><b>Input Current:</b> (242) 10 mA, nominal</li> <li><b>Output Current:</b> (242) 2.0 mA, max. for &lt;0.1% FSO attenuation</li> <li><b>Circuit Protection:</b> Reverse polarity, output may be grounded indefinitely</li> <li><b>Response Time:</b> 1 millisecond typical</li> <li><b>Connection:</b> Bendix PTIH-10-6P connector or equivalent</li> </ul>	<b>MECHANICAL</b> <ul style="list-style-type: none"> <li><b>Process Connection:</b> AS4395E04 standard, optional ports available</li> <li><b>O-Ring:</b> Buna-N (Nitrile) is standard. For expanded temp ranges -65 °F to 350 °F Fluorosilicone is standard.</li> <li><b>Proof Pressure:</b> 2X FSO</li> <li><b>Burst Pressure:</b> 5X FSO or 22.5K PSI (1,551 BAR), whichever is less</li> <li><b>Weight:</b> 3 oz nominal (85 grams)</li> </ul>
<b>MATERIALS OF CONSTRUCTION</b>	<b>PRESSURE RANGES</b>
<ul style="list-style-type: none"> <li><b>Wetted Parts:</b> 17-4 PH stainless steel</li> <li><b>Housing:</b> 316 stainless steel</li> </ul>	<ul style="list-style-type: none"> <li>0 to 15 thru 0 to 15K PSI (1 thru 1,034 BAR)</li> </ul> <b>THERMAL SPECIFICATIONS</b> <ul style="list-style-type: none"> <li><b>Compensated:</b> -40 °F to +250 °F (-40 °C to +121 °C)</li> <li><b>Operating Ambient:</b> -40 °F to +250 °F (-40 °C to +121 °C)</li> <li><b>Storage:</b> -40 °F to +250 °F (-40 °C to +121 °C)</li> <li><b>Effect on Zero/Span:</b> ±0.75% FSO/100 °F standard</li> </ul>

**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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