

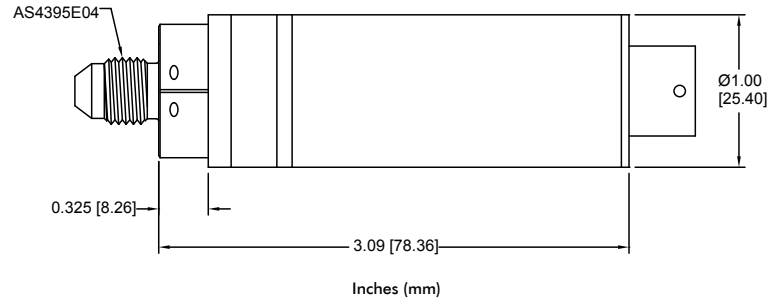
## MODEL 142 / 242 / 342

### VEHICLE TEST PRESSURE TRANSDUCER / TRANSMITTER



#### 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



**REF DIMENSIONS ONLY.  
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

#### 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 with industrial grade pricing.

#### FEATURES:

- Ranges 0 to 500 thru 0 to 15K PSI
- Broad operating temperature range of -40 °F to +250 °F (-40 °C to +121 °C)
- Accurate up to ±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

#### OPTIONS:

- Exotic wetted materials
- Optional process and electrical connections

# GP:50 MODEL 142 / 242 / 342

## REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal:	(142) 3.0 mV/V (Amplified output) (242) 0 to 5.0 Vdc (342) 4-20 mA
Excitation Voltage:	(142) 3.5 to 15 Vdc (242) 9 to 36 Vdc (342) 9 to 36 Vdc
Bridge Resistance:	(142) 4K to 6K $\Omega$ Amplified Output
Circuit Protection:	Reverse polarity, output may be grounded indefinitely
Response Time:	<3 mSec Typ

MATERIALS OF CONSTRUCTION	
Wetted Parts:	17-4 PH or 316L stainless steel
Housing:	316 stainless steel
O-Ring:	Buna-N (Nitrile) is standard

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ + 70 °F	
Standard:	$\pm 0.2\%$ FSO
Improved:	$\pm 0.1\%$ FSO
Zero & Span Balance:	$\pm 0.5\%$ FSO at + 70 °F

MECHANICAL	
Process Connection:	AS4395E04 standard, optional ports available
Electrical Connection:	Bendix PTIH-10-6P connector or equivalent
Proof Pressure:	2X FSO
Burst Pressure:	5X FSO or 22.5K PSI (1,551 BAR), whichever is less
Approximate Weight:	3 oz nominal (85 grams)

PRESSURE RANGES	
0 to 500 thru 0 to 15K PSI (1 thru 1,034 BAR)	

THERMAL SPECIFICATIONS	
Operating Ambient:	-40 °F to +250 °F (-40 °C to +121 °C)
Compensated Range:	-40 °F to +250 °F (-40 °C to +121 °C)
Storage Ambient:	-40 °F to +250 °F (-40 °C to +121 °C)
Effect on Zero/Span:	$\pm 0.75\%$ FSO/100 °F standard

