



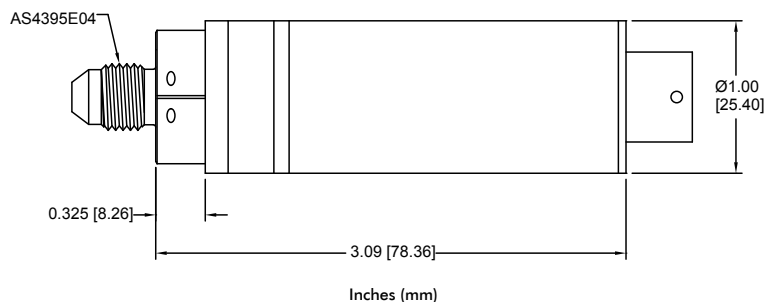
INDUSTRIAL



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 |



Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

Developed from years of experience, the GP:50 Series was designed with aerospace critical for industrial applications. The compact all-welded construction provides high accuracies over a broad temperature compensated range. The 40 Series has the performance and durability of 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)
- Accuracy 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 Ω 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: | ±0.2% FSO |
| Improved: | ±0.1% FSO |
| Zero & Span Balance: | ±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: | ±0.75% FSO/100 °F standard |