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 ±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
**ELECTRICAL**

- **Supply Voltage:**
  - (142) 3.5 to 15 Vdc
  - (242) 9 to 40 Vdc
  - (342) 9 to 36 Vdc

- **Output Signal:**
  - (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

- **Input Impedance:** (142) 5K Ω nominal, 350 Ω optional

- **Input Current:** (242) 10 mA, nominal

- **Output Current:** (242) 2.0 mA, max. for <0.1% FSO attenuation

- **Circuit Protection:** Reverse polarity, output may be grounded indefinitely

- **Response Time:** 1 millisecond typical

- **Connection:** Bendix PTIH-10-6P connector or equivalent

**MATERIALS OF CONSTRUCTION**

- **Wetted Parts:** 17-4 PH stainless steel

- **Housing:** 316 stainless steel

**REFERENCE SPECIFICATIONS**

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

- Standard: ±0.2% FSO
- Improved: ±0.1% FSO
- Zero Balance and FSO: ±0.5% FSO at +70 °F

**MECHANICAL**

- **Process Connection:** AS4395E04 standard, optional ports available
- **O-Ring:** Buna-N (Nitrile) is standard. For expanded temp ranges -65 °F to 350 °F Fluorosilicone is standard.
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 5X FSO or 22.5K PSI (1,551 BAR), whichever is less
- **Weight:** 3 oz nominal (85 grams)

**PRESSURE RANGES**

- 0 to 15 thru 0 to 15K PSI (1 thru 1,034 BAR)

**THERMAL SPECIFICATIONS**

- **Compensated:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Operating Ambient:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Storage:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Effect on Zero/Span:** ±0.75% FSO/100 °F standard

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Standard configurations shown. Please consult factory for other options.

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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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