

## Model H2 Precision Pressure Transducer



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### APPLICATIONS

*Engine / Turbine Test Stands, Remote Monitoring Systems, On-Vehicle Test Installations.*

### FEATURES

- **Compact Design**
- **Choice of 0.15% or 0.20% Accuracy**
- **All Stainless Steel Wetted Materials**
- **Optional Nine-Point NIST Traceable Calibration Report**

The Ashcroft H2 precision pressure transducer is ideal for measuring and controlling challenging hydraulic and pneumatic applications. This is accomplished through the use of a unique digital compensation process. The high-accuracy and performance combined with its rugged construction provides the user with a highly reliable and safe sensor platform.

### PERFORMANCE SPECIFICATIONS

**Analog Output (4-20mA / 0-5Vdc / 0-10Vdc):**

**Accuracy:**  $\pm 0.20\%$  Span or  $\pm 0.15\%$  Span (includes zero/span offsets, non-linearity, hysteresis and repeatability)

**Temperature Effects:**

Zero / Span:  $\pm 0.01\%$  Span / °C – from 23°C (73.4°F) reference temperature

**Stability:**  $< \pm 0.25\%$  span/year

**Durability:** Tested to 10 million cycles

**Vibration:** 20g (IEC 68-2-6 and IEC 68-2-36)

**Shock:** 1000g (IEC 68-2-32)

**Response Time:** 4msec (10-90%)

**Position Effect:** None

**Output Resolution:**  $\pm 0.03\%$  F.S.

### ENVIRONMENTAL SPECIFICATIONS

**Temperature Limits:**

Storage:  $-40$  to  $105^{\circ}\text{C}$  ( $-40$  to  $221^{\circ}\text{F}$ )

Operating:  $-20$  to  $85^{\circ}\text{C}$  ( $-4$  to  $185^{\circ}\text{F}$ )

Compensated:  $-10$  to  $80^{\circ}\text{C}$  ( $14$  to  $176^{\circ}\text{F}$ )

**Humidity:** 0-95% RH (Non-Condensing)

### FUNCTIONAL SPECIFICATIONS

Proof Pressure: 2X Range (2000 psi & below)

1.5X Range (3000 to 5000 psi)

1.2X Range (7500 psi & above)

Burst Pressure: 8X Range (2000 psi & below)

3X Range (3000 psi to 5000 psi)

1.5X Range (7500 psi & above)

Insulation Voltage: 50Vdc 100M $\Omega$  min

CE Compliance: EN61326-1 2006, EN61326-2-3 2006

EU RoHS Compliance

### ELECTRICAL SPECIFICATIONS

**Output Signals:** 4-20mA / 0-5Vdc / 0-10Vdc

**Supply Voltage:** 10-32Vdc (4-20mA Version); 2 wires

13-32Vdc (Voltage Versions); 3 wires

**Circuit Protection:** Overvoltage and reverse polarity protection 36V

**Insulation Resistance:**  $< 100\text{M}\Omega$  @ 30V

### PHYSICAL SPECIFICATIONS

**Enclosure:** 304SS

**Ingress Rating:** IP65 (Ranges 300 psi & below)

IP67 (Ranges above 300 psi)

**Electrical Termination:** Refer to "How to Order" section

**Pressure Connection:** Refer to "How to Order" section

**Weight:** Approx. 120 grams (3.86 ounces)

**Media:** Fluids and gases compatible with 304SS (pressure connection) and 17-4 pH SS (sensor diaphragm)

