

Model H2 Precision Pressure Transducer



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OUR PRODUCTS

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°C (-40 to 221°F)

Operating: -20 to 85°C (-4 to 185°F)

Compensated: -10 to 80°C (14 to 176°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 Ω 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

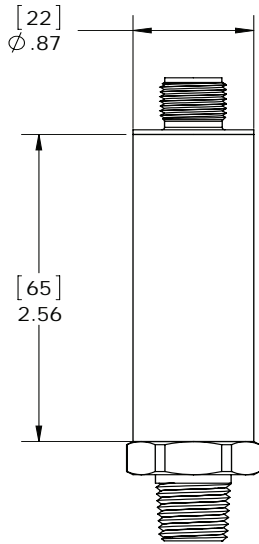
Pressure Connection: Refer to "How to Order" section

Weight: Approx. 120 grams (3.86 ounces)

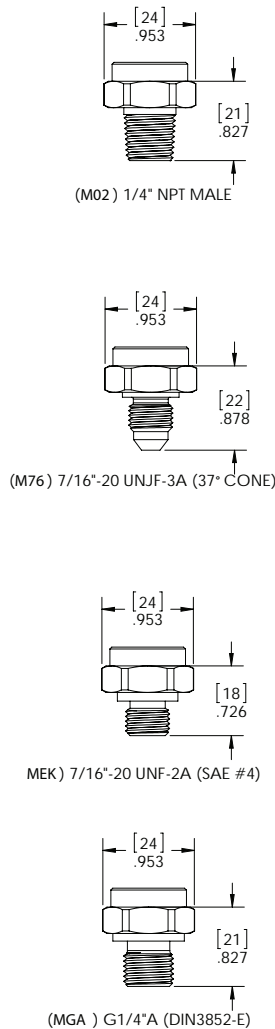
Media: Fluids and gases compatible with 304SS (pressure connection) and 17-4 pH SS (sensor diaphragm)

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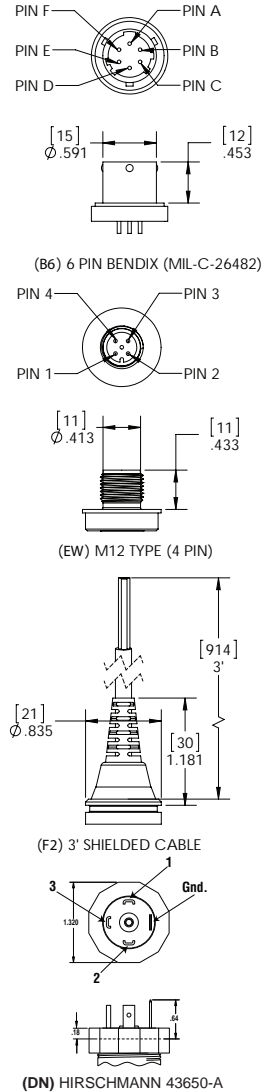
DIMENSIONS



PRESSURE CONNECTIONS



ELECTRICAL TERMINATIONS



Part Number Description:

H 2							
Type Configuration	Accuracy	Pressure Connection/Location	Output Signal	Electrical Connection	Gauge	Pressure Ranges	Optional X Variations
	(2) $\pm 0.15\%$ (3) $\pm 0.2\%$	(M02) 1/4" NPT-male (M76)* 7/16"-20 UNJF-3A 37° Cone (MEK) 7/16"-20 UNF-2A (SAE #4) (MGA) 1/4" A (DIN3852-E)	(42) 4-20mA (05) 0-5 Vdc (10) 0-10 Vdc	(B6) 6 Pin Bendix (MIL-C-26482) (EW) M12 Type 4 pin (F2) 3' Shielded Cable (DN) Hirschmann 43650-A	15#G = 0/15 psig 30#G = 0/30 psig 50#G = 0/50 psig 100#G = 0/100 psig 150#G = 0/150 psig 300#G = 0/300 psig 500#G = 0/500 psig 1000#G = 0/1000 psig 1500#G = 0/1500 psig 3000#G = 0/3000 psig 5000#G = 0/5000 psig 7500#G = 0/7500 psig 10,000#G = 0/10,000 psig 15,000#G = 0/15,000 psig 20,000#G = 0/20,000 psig	Compound 15#&V = -15 to 15 psig 30#&V = -15 to 30 psig 75#&V = -15 to 75 psig 150#&V = -15 to 150 psig 300#&V = -15 to 300 psig Absolute 15#A = 0/15 psia 30#A = 0/30 psia 50#A = 0/50 psia 100#A = 0/100 psia 150#A = 0/150 psia	(XRH) = NIST Traceable 9 Point Calibration Report (XNH) = Wired Stainless Steel Tagging (XGB) = Oxygen Cleaning
* Only available >1000 psi					Note: Consult factory for special ranges or for other units (ie. bar / mPa / kPa)		