

Exclusive K2 Features

- 0.5% and 1.0% terminal point based accuracy
- Vac-20,000 psi pressure range
- Superior long-term stability and repeatability
- Stainless steel NEMA 4X enclosure
- mV/V output
- Wide range of electrical and process connections available

Model K2 Pressure Transducer

The K2 series continues to expand and offer user flexibility while maintaining proven life, reliability and performance characteristics



Model K2 Pressure Transducer



PERFORMANCE CHARACTERISTICS

Accuracy Class (F.S.):	<u>0.5%</u>	<u>1.0%</u>
Nonlinearity		
Terminal Point*	±0.4%	±0.7%
B.F.S.L.	±0.25%	±0.4%
Hysteresis	±0.15%	±0.2%
Nonrepeatability	±0.05%	±0.07%
Interchangeability	±0.5%	±1.0%

*Includes hysteresis

Standard Ranges (PSI):

0/15*	0/300	0/5,000	Vac./60*
0/30*	0/500	0/7,500	Vac./45*
0/60*	0/750	0/10,000*	Vac./30*
0/100	0/1,000	0/15,000*	Vac./15*
0/150	0/2,000	0/20,000*	Vac./0*
0/200	0/3,000		

*1% Accuracy ranges only

Consult factory for non-standard ranges

Stability: ±0.5% F.S./year non-cumulative

Durability: 10⁸ cycles 20/80% F.S. with negligible performance change

Response time: Less than 5m sec

ENVIRONMENTAL CHARACTERISTICS

Temperature Limits:

Storage	-65/+250°F
Operating	-20/+180°F
Compensated	-20/+160°F

Thermal Coefficients (68°F ref.):

Accuracy	Zero and Span
(-3) 0.5%	±0.014% F.S./°F
(-5) 0.5%	±0.028% F.S./°F
(-7) 1.0%	±0.040% F.S./°F

Multiply zero thermal coefficients by 1.5 on 0/30 psi range and by 3 on 0/15 and Vac/0 ranges.

Humidity: No performance effect at 95% relative humidity-noncondensing

FUNCTIONAL CHARACTERISTICS

Overpressure (F.S.):

	Proof	Burst
0/15-0/2000	200%	800%
0/3000-0/5000	150%	300%
0/7500-0/20,000	120%	150%

Vibration Sweep: Less than ±0.1% F.S. effect for 0-2000 Hz at 20 g's in any axis

Shock: Less than ±0.05% F.S. effect for 100 g's, 20 ms shock in any axis

Position Effect: Less than 0.01% F.S.

ELECTRICAL SPECIFICATIONS

Sensitivity:

2mV/V
3mV/V
10mV/V
20mV/V

Power Requirements: 5-10 Vdc

Zero Offset: ±0.5% F.S. or ±1% F.S., dependent on accuracy class

Circuit to Case Insulation Resistance:

100 M ohms @ 50 Vdc

PHYSICAL SPECIFICATIONS

Standard Process Connections:

(316 stainless steel)

1/8 NPT male or female

1/4 NPT male or female

7/16-20 SAE male

1/4" VCR face seal, male or female

1/4 AMINCO (female) required for pressures over 10,000 psi

Other connections available

Enclosure: NEMA 4X (NEMA 1 only if <500 psig and electrical termination is Bendix® or Hirschmann®).

Case: 300 series stainless steel

Cable: No. 24 AWG, 36" PVC, shielded, vented, UL approved.

Diaphragm: 17-4 PH stainless steel

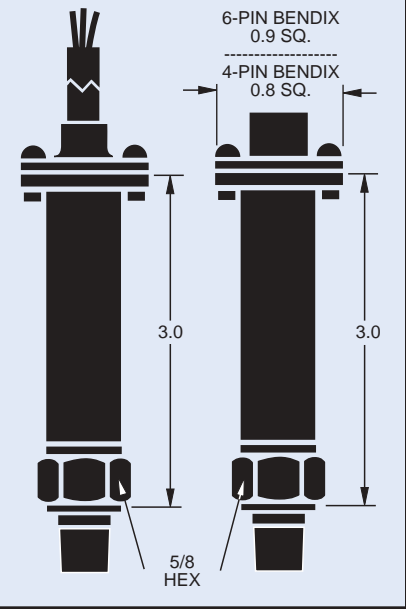
Weight: 2 oz. (approx. without cable)

Shunt calibration feature is available as an option. Calibration report is standard with 0.5% and optional with 1% accuracy units. Consult factory for pricing, availability and required minimums for non-standard products.

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Dimensions



Measurement

Two Research Drive
Shelton, CT 06484
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How To Order

K 2	Accuracy/TC (3) 0.50% ±0.014%/°F (5) 0.50% ±0.028%/°F (7) 1.0% ±0.040%/°F		Sensitivity (02) 2mV/V (03) 3mV/V (10) 10mV/V (20) 20mV/V		Pressure Range (100) 100 psi (20,000) 20,000 psi (vac/0) = 0-30" Hg vacuum (vac/15) = -30" Hg to 15 psig	X Variations See dwg 64A234
Type Configuration (K2)		Pressure Connection (MO1) 1/8 NPT-M (FO1) 1/8 NPT-F (MO2) 1/4 NPT-M (FO2) 1/4 NPT-F (MEK) 7/16-20 SAE (FO9) 3/16-18 Female (MV2) 1/4 VCR-M (FV2) 1/4 VCR-M	Electrical Termination (F2) 36" Cable, Shielded, PVC Sheathing (B4) Bendix 4-pin #PTO2A-8-4P* (B8) WP Bendix 4-pin #PTO2H-8-4P* (B6) Bendix 6-pin #PTO2A-10-6P* (B9) WP Bendix 6-pin #PTO2H-10-6P* (C1) 1/2 NPT-M Conduit and 36" cable (HM) Hirschmann Miniature*			

*Mating connector available as option