

Exclusive K8 Features

- *Wide range of pressure connections available*
- *Miniature size and light weight*
- *0.5% and 1.0% accuracy*
- *45-20,000 psi pressure ranges*
- *Superior long-term stability and repeatability*
- *Millivolt output*

Model K8 Pressure Transducer

The Ashcroft K8 Series continues to expand and offer OEM flexibility while maintaining proven life, reliability and performance characteristics.



ISO 9001
REGISTERED FIRM

DRESSER
Measurement

PERFORMANCE CHARACTERISTICS

Accuracy Class (F.S.): 0.5% 1.0%

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):

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

*1% Accuracy ranges only

Consult factory for nonstandard ranges

Stability: ±0.5% F.S./Year

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

Response Time: Less than 5m sec

ENVIRONMENTAL CHARACTERISTICS

Temperature Limits:

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

Thermal Coefficients (68°F ref.):

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

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

FUNCTIONAL CHARACTERISTICS

Overpressure (F.S.):

	Proof	Burst
0/45-0/2000	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 msec shock in any axis

Position Effect: Less than 0.01% F.S.

ELECTRICAL SPECIFICATIONS

Sensitivity to Pressure: Output signal sensitivity varies from 6-18mV/V at full scale, output proportional to supply voltage.

Excitation: 3-10 Vdc

Zero Offset: ±3mV/Vdc

Bridge Resistance: 3500 ohms (nominal)

Noise: Less than 0.02% F.S.

Circuit to Case Insulation Resistance: 100 M ohms @ 50 Vdc

PHYSICAL CHARACTERISTICS

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 male or female

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

Other connections available

Enclosure: NEMA 1, (NEMA 4X with F2 cable assembly).

Case: 300 series stainless steel

Cable: 4" polyethylene coated, 30AWG or UL approved 36" shielded vented cable (24AWG).

Diaphragm: 17-4 PH stainless steel

Weight: 2 oz. (approx. without cable)

Calibration report is standard with 0.5%

and optional with 1% accuracy units.

Consult factory for pricing, availability and required minimums for non-standard product.

Dimensions

FIG. 1

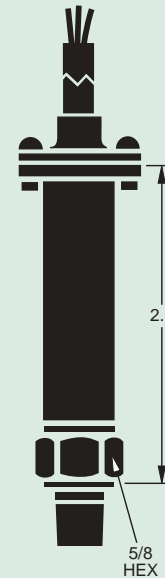
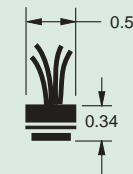


FIG. 2



FIG. 3



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How To Order

