## **K2 Pressure Transducer**

#### **FEATURES**

- All SS wetted parts
- Broad selection of pressure ranges, pressure conditions and electrical terminations
- Pressure ranges vacuum through 20,000 psi
- Choice of 1.0% or 0.5% (OPT.) accuracy
- NEMA 4X rated enclosure

### **TYPICAL USES**

- Hydraulic
- Machine Tool
- Test and Measurement
- All General Purpose Industrial Process Applications

# PERFORMANCE SPECIFICATIONS

Reference Temperature:	68°F (20°C)				
Accuracy Class (% Span):	±0.5% or ±1.00% of span Terminal Point Method: Includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors				
Best Fit Straight Line (BFSL):	$\pm$ 0.25%, $\pm$ 0.40% of span				
Durability:	>10 million cycles				
Stability:	±0.5% span/year				
Interchangeability:	±0.5%, ±1.0%				
ENVIRONMENTAL SPECIFICATIONS					
Temperature Limits:	Operating: -2	65°F to 250°F (–54°C to 121°C) 20°F to 180°F (–28°C to 82°C) 20°F to 160°F (–28°C to 71°C)			
Thermal Coefficients: (ref. 68°F (20°C))	Accuracy: 0.5%   ZER0 ±0.028%   SPAN ±0.028%				
Humidity Effects:	No performance effect humidity-noncondens				
<b>FUNCTIONAL S</b>	PECIFICATIONS				
Response Time:	<5ms				
Pressure Ranges:	Vacuum to 20,000 psi				
Shock Effect:	${<}\pm0.05\%$ F.S. effect for 100g's, 20ms shock in any axis				
Vibration Effect:	$<\pm0.1\%$ F.S. effect for 0-2,000Hz at 20g's in any axis				
Position Effect:	<±0.01% F.S.				
Overpressure:	Proof:	Burst:			



### **KEY BENEFITS**

- Field proven and versatile
- Eliminates signal instability and drift
- Offered with millivolt output
- Superior long-term stability and repeatability

#### **ELECTRICAL SPECIFICATIONS** 2mV/V, 3mV/V, 10mV/V, 20mV/V Output Signal: Regulated: 5-10 Vdc Power Requirements Voltage Output: <3 mA Circuit Protection: Reverse polarity and miss-wire protected Insulation Resistance 100 MΩ @ 100 Vdc (Circuit Case): PHYSICAL SPECIFICATIONS Environmental NEMA 4X (NEMA 1 only 500 psig if electrical termi-Rating: nation is Bendix<sup>®</sup> (Ashcroft part codes B4 & B6) Weight: 2 oz. (approx. w/o cable) Cable: 36" PVC, shielded, vented, UL approved (24 AWG) Process 1/8 NPT Male or Female 1/4 NPT Male or Female Connection: 7/16 SAE-J-514 Male

%16-18 AMINCO Female (pressures over 10,000 psi)

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2 X Range

1.5 X Range

1.2 X Range

≤2,000 psi

≥3,000 to ≤5,000 psi

≥7,500 to ≤20,000 psi

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8 X Range

3 X Range

1.5 X Range





# **K2 Pressure Transducer**

WETTED MATERIAL						
Diaphragm	Process Connection					
17-4PH SS	304 SS					
NON-WETTED						
Case Material						
304 SS						

OPTIONAL FEATURES					
Calibration:	Non-standard, Shunt calibration				
Thermal Coefficients: (ref. 68°F (20°C))	<b>Accuracy:</b> ZERO SPAN	0.5% ±0.014% ±0.014%			

ORDERING CODE	Example:	К2	7	M02	10	F2	100#	XCL
Model						•-	100%	
K2 - Pressure sensor		K2						
Accuracy/Tem. Effects								
7 - 1.00%/±0.040%/ °F			7	-				
5 - 0.50%/±0.028%/ °F								
3 - 0.50%/±0.014%/ °F								
Pressure Connection Size								
M01 - 1/8 NPT Male				M02				
M02 - 1/4 NPT Male								
F02 - 1/4 NPT Female								
M04 - ½ NPT Male MEK - 7/16-20 SAE Male								
F09 - %6-18 Female Aminco®								
Output Signal								
02 - 2mV/V								
03 - 3mV/V								
10 - 10mV/V					10			
20 - 20mV/V								
Electrical Termination								
F2 - 3' shielded cable Integral Cable (Pigtail)				_		F2		
HM - Hirschmann® G series connector (minature type) w/o ma	ting connection							
B4 - 4-Pin Bendix® style w/o mating connection								
B6 - 6-Pin Bendix® style w/o mating connection	w/a mating connection							
B8 - Environmentall sealed/moisture proof 4-Pin Bendix® style B9 - Environmentall sealed/moisture proof 6-Pin Bendix® style								
C1 - 3' shielded cable $\frac{1}{2}$ NPT Male conduit shielded cable	e w/o mating connection							
Standard Pressure Ranges								
15# - 15 psi								
30# - 30 psi								
60# - 60 psi								
•							100#	
100# - 100 psi							100#	
150# - 150 psi								
200# - 200 psi								
300# - 300 psi								
500# - 500 psi								
750# - 750 psi								
1000# - 1,000 psi								
2000# - 2,000 psi								
3000# - 3,000 psi								
5000# - 5,000 psi								
7500# - 7,500 psi								
10000# - 10,000 psi								
15000# - 15,000 psi								
20000# - 20,000 psi								
0# & vac - 0-vac								
15# & vac - vac-15 psi								
30# & vac - vac-30 psi								
45# & vac - vac-45 psi								
60# & vac - vac-60 psi								
100# & vac - vac-100 psi								
Option (if including an option(s) must include an "X")								x
CL - Non-standard calibration								 CL



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### **DIMENSIONS** are identified in inches and [millimeters]

For reference only, consult Ashcroft for specific dimensional drawings.

