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Series KP46
Explosion-Proof
Pressure Transducers

Precautions

- **User's Responsibility for Safety:** KOBOLD manufactures a wide range of process sensors and technologies. While each of these technologies are designed to operate in a wide variety of applications, it is the user's responsibility to select a technology that is appropriate for the application, to install it properly, to perform tests of the installed system, and to maintain all components. The failure to do so could result in property damage or serious injury.
- **Wiring and Electrical:** Because this is an electrically operated device, only properly trained personnel should install and maintain this product. Be sure that the power supplied to the unit is appropriate for the electronics version supplied. Electrical wiring of the sensor **MUST** be performed in accordance with all applicable national, state and local codes **AND** in accordance with the most recent version of the National Electric Code ANSI/NFPA 70 (NEC) Articles 500 through 505.
- **Make a Fail-Safe System:** Design a fail-safe system that accommodates the possibility of sensor, relay or power failure. In critical applications, KOBOLD recommends the use of redundant backup systems and alarms in addition to the primary system.
- **Hazardous Location Approval:** CSA approved to standards CSA 30 and U.L. 1203, Explosion-Proof for Class 1, Div 1 Groups A, B, C, D and Div. 2 Groups A, B, C, D for use in Hazardous Areas
- - ANSI/ISA 12.27.01-2003 Single Seal Approved
- - CE EN61326 as per CECV, Canadian Electrical Code Variance



Explosion-Proof

Specifications:

Available Ranges: 0-50 through 0-10,000 PSIG
Over Range Protection: 2X full scale
Burst Pressure: 5X full scale
Cycle Life: >100 million cycles
Fitting Type: 1/4" NPT male
Wetted Materials: 316 L Stainless Steel
others available upon request
Corrosion Resistance: Complies with NACE MR0175
Linearity: $\pm 0.25\%$ BFSL
Zero Offset: $< \pm 1\%$ of full scale
Span Tolerance: $< \pm 2\%$ of full scale
Oper. Temp Range: -40 to +185°F
Compensated Range: 30 to 130°F
Temp. Drift: $< \pm 1.5\%$ of full scale for zero and span over the compensated range
Shock Resistance: 100G, 11mSec.
Vibration Resistance: 10G peak, 20-2000Hz
Stability (1 year): $\pm 0.25\%$ of full scale

Electrical Specifications:

Output: 4-20 mA, 2-wire
Input Power Supply: 10-28 VDC
Max. Loop Load: 800 Ohms
Elec. Connection: 1/2" NPT Conduit with 6 Ft. 18 AWG wire leads
Elec. Protection: NEMA 4X/ IP 67

Wiring Connections:

CAUTION: BE SURE THAT POWER IS DISCONNECTED BEFORE PROCEEDING!

4-20 mA, 2-wire Output

Red: +V Supply (10-28VDC)

Black: + Signal Output (4-20mA)

Green: Case/Equipment Ground

Installation:

1. Mount the transmitter so that the sensor port will not become clogged with sediment or debris that could hamper the sensing ability.
2. Although the transmitter is highly vibration resistant, it is always good practice to mount the device appropriately to minimize any potentially damaging shock and vibration.
3. Apply PTFE tape, or other appropriate thread sealant to the NPT pressure fitting thread before installation. Tighten the device using the 7/8" Hex next to the pressure connection. **DO NOT USE A PIPE WRENCH ON THE TRANSMITTER HOUSING!**

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