

KP46 EXPLOSION-PROOF PRESSURE TRANSMITTER



Flow
Pressure
Level
Temperature
Measurement
Monitoring
Control



Explosion-Proof

- Pressure Ranges from 0-50 PSIG through 0-10,000 PSIG
- Approved Explosion-Proof for Class 1, Div. 1 and Class 1, Div. 2 Hazardous Locations
- One Piece 316L Stainless Steel Sensing Diaphragm With No Welds, O-rings or Seams
- Rugged Factory-Sealed Case Withstands Harsh Environments, Shock and Vibration
- Typical Applications Include Natural Gas Compressors, Pipeline Equipment, Well-Head Pressure and Oil Platform Equipment

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Model:
KP46



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- **Approved Explosion-Proof for Class 1, Div. 1 and Class 1, Div. 2 Hazardous Locations**
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The KOBOLD KP46 series explosion-proof pressure transmitter is approved for use in hazardous locations per CSA standard 30 and U.L. standard 1203 for Class 1, Division 1 and Division 2 locations. The wetted parts are all 316L stainless steel for compatibility with a wide variety of media. Wetted materials and construction comply with NACE MR0175. Other wetted materials such as 17-4 PH stainless or inonel are available on request. The fitting and sensing diaphragm are machined out of a single piece of material so there are no welds, seams or o-ring seals resulting in excellent long term performance and stability.

The case is factory sealed making the KP46 series very rugged with excellent shock and vibration resistance. The KP46 is perfect for explosion proof applications where both price and performance are critical.

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 on request

Corrosion Resistance:

Complies with NACE MR0175

Accuracy:

±0.25% BFSL

Zero Offset:

<±1% of full scale

Span Tolerance:

<±2% of full scale

Oper. Temp Range:

-40 to +185°F

Compensated Range:

30 to 130°F

Temp. Drift:

<±1.5% of full scale

for zero and span over the compensated range



Specifications (continued)

Shock Resistance:100G, 11mSec.

Vibration

Resistance: 10G peak, 20-2000Hz

Stability (1 year): ±0.25% of full scale

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

Electrical Specifications

Output: 4-20 mA 2-wire

Power Supply: 10-28 VDC

Max. Loop Load: 800Ω

Elec. Connection: 1/2" NPT Conduit with 6 Ft. wire leads

Elec. Protection: NEMA 4X/ IP 67

Ordering Information

Range (PSIG)	Model Number	Range (PSIG)	Model Number
0-50	KP46-A00050P4W1	0-1,500	KP46-A01500P4W1
0-100	KP46-A00100P4W1	0-3,000	KP46-A03000P4W1
0-200	KP46-A00200P4W1	0-5,000	KP46-A05000P4W1
0-500	KP46-A00500P4W1	0-7,500	KP46-A07500P4W1
0-1,000	KP46-A01000P4W1	0-10,000	KP46-A10000P4W1