

## KP46 - Explosion-Proof Pressure Transmitter



### Benefits and Features

- 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

### General Description

The 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 inconel 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  
**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  
**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