

KPA Series - Industrial/OEM Pressure Transmitter



Benefits and Features

- 0.25% of Full Scale Accuracy
- Precision Machined Diaphragm with No Welds or O-ring Seals
- Pressure Ranges 0-50 through 0-10,000 PSIG
- All Stainless Steel Wetted Parts
- Unique Sensor Fusing Technology for Exceptional Cycle Life
- Full Featured – LOW COST OEM Solution

General Description

The KPA Series Industrial/OEM pressure sensors are a breakthrough that combine several unique features yielding an exceptionally tough and accurate sensor at a low cost. The fitting and pressure sensing diaphragm are precision machined out of a single piece of 17-4 PH stainless steel.

There are no welds or Oring seals which results in an extremely high cycle life. The semiconductor strain gauges are kiln fused to the diaphragm making a highly stable molecular bond. Molecular bonding of the sensing element produces a pressure sensor that will have exceptional long term stability in demanding applications characterized by high pulsations. The KPA series has a 4-20 mA, 2-wire transmitter and 1/4" NPT fitting standard.

Other outputs and fitting options are available in OEM quantities. 316L stainless steel wetted parts are also available in OEM quantities. The KPA also provides significant levels of RFI, EMI and ESD protection making it an excellent choice for industrial and mobile applications.

Specifications

Pressure Ranges: 0-50 PSIG through 0-10,000 PSIG

Accuracy: 0.25% of full scale BFSL

Temperature Drift

Coefficient: $\pm 0.0065\%$ of full scale/ $^{\circ}\text{F}$ over the compensated temperature range

Process

Temperature Range: -40 to 185 $^{\circ}\text{F}$

Compensated

Temperature Range: 0 to 185 $^{\circ}\text{F}$

Wetted Materials: 17-4 PH stainless steel; 316L available in OEM quantities

Proof Pressure: 2X measuring range

Burst Pressure: 5X measuring range

Vibration Resistance: 20G at 20-200 Hz

Shock Resistance: 200G / 11 ms

Output

Standard: 4-20 mA, 2-wire, 9-30 VDC

Optional: Others available in OEM quantities

Electrical Connection

Standard: Mini-DIN 43650C

Optional: Others available in OEM quantities

Electrical Protection: NEMA 4X/IP 65

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⊕ Ordering Information

Range (PSIG)	Model Number
0-50	KPA-565P055
0-100	KPA-565P065
0-200	KPA-565P085
0-300	KPA-565P090
0-500	KPA-565P100
0-1000	KPA-565P115
0-3000	KPA-565P140
0-5000	KPA-565P150
0-10000	KPA-565P175

↔ Dimensions

