

KPG - High Precision Pressure Transmitter



Benefits and Features

- Advanced Thin Film or Piezoresistive Sensing Technology
- Variety of Output Signals
- CE EMI Compliant
- Absolute or Gauge Measuring Ranges
- High Overpressure Protection
- Fast Response Time
- Stainless Steel Construction
- Pressures to 60,000 PSIG
- Easy-to Use Hirschmann Connectors Standard
- **CAN BE USED WITH AUF Display Below**

AUF - Compact Local Electronic Display



Special Features:

- Local Indication for Transducers & Transmitters
- 4-20 mA Loop-Power Driven
- Works with Standard DIN 43650 Hirschmann® Plug
- 4 Digit Accuracy
- Switch Available

Specifications:

- For transmitters with 4-20 mA output and DIN 43 650 plug
- 4-20 mA loop powered
- Indicator: 4-digit, red LED
- Indicating range: -1999 ...+1999
- Accuracy class: 0.2 % of FS \pm 1 Digit
- Option: open collector

General Description

KPG series transducers are intended for heavy duty, high accuracy applications. Utilizing either thin film or piezoresistive technologies, the KPG can achieve accuracies of $\pm 0.12\%$ at pressures up to 60,000 PSIG while offering shock resistance, extreme long term sensor stability and excellent noise immunity (CE compliance.) Along with these features, the KPG offers “snafu” protection against common installation problems such as reverse polarity wiring, overvoltage and short circuiting. As with all sensors in the KP line, KPG sensors undergo 100% inspection and testing to ensure a trouble-free installation process.

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⚙ Specifications

Accuracy

Standard: $\pm 0.25\%$ of full scale

Optional: $\pm 0.12\%$ of full scale

Included Components

Repeatability: $\pm 0.05\%$ of full scale

Hysteresis: $\pm 0.1\%$ of full scale

Fittings: 1/4", 1/2" male NPT or 9/16-18 aminco

Materials of Construction

Wetted Parts: 316 SS

Case: 304 SS

Temperature Information

Compensation: 32°F to 175°F

Drift: $\pm 0.02\%/50^\circ\text{F}$

Medium: -22°F to 212°F

Ambient: 14°F to 175°F

Storage: -40°F to 212°F

Shock Sensitivity: $< \pm 0.05\%$ full scale @ 100g for 20 ms

Vibration Sensitivity: $< \pm 0.01\%$ full scale @ 20g & 0-2000 Hz

Pressure Limitations

Vacuum & 15-7,500 PSI Ranges

Proof Pressure: 2 x range

Burst Pressure: 4 x range

10,000-60,000 PSI Ranges

Proof Pressure: 1.2 x range

Burst Pressure: 2 x range

Electrical Data

Output: -See ordering table

Adjustability: $\pm 5\%$ of span

Input Power

Current Output: 12-30 VDC

Voltage Output: 14-30 VDC

Response Time: < 1 ms, 10-90% FS

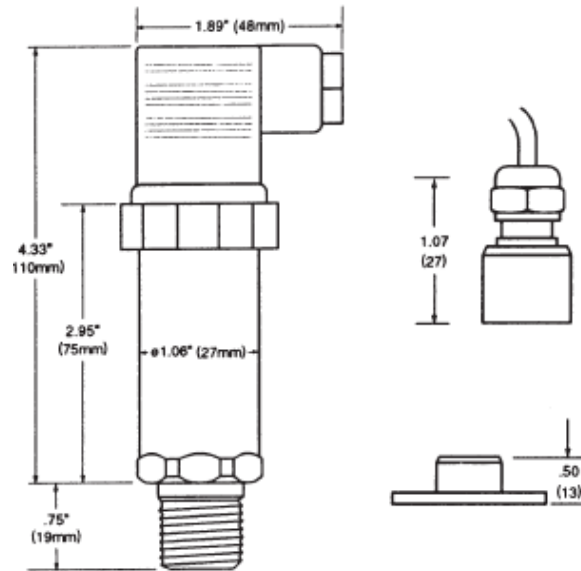
Frequency Limit: 150 Hz

Protection

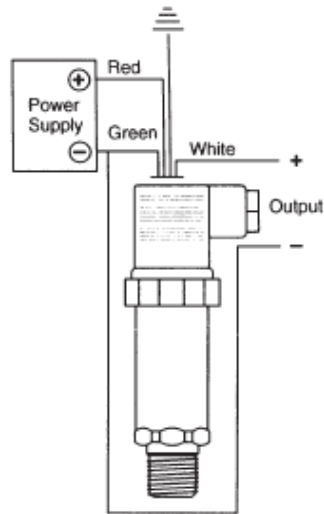
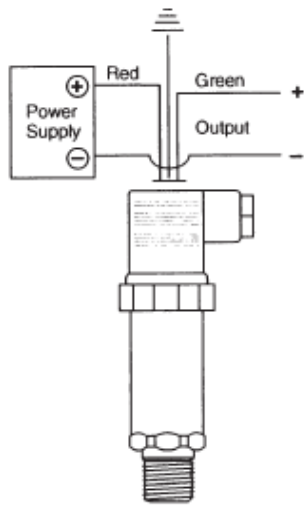
Environmental: NEMA 4X

Fault: Reverse polarity, overvoltage, short circuit

↔ Dimensions



Electrical Connection



2 WIRE WIRING DIAGRAM EXAMPLE

4-20 mA 2-Wire Current Loop

Signal	DIN 43650	Wire Color
Supply + (12-30 VDC)	Pin 1, A	RED/BROWN
Signal - (4-20mA)	Pin 2, B	GREEN

3 WIRE WIRING DIAGRAM EXAMPLE

3-Wire Voltage Output

Signal	DIN 43650	Wire Color
Supply + (14-30 VDC)	Pin 1, A	RED/BROWN
- Supply, - Signal	Pin 2, C	GREEN
Signal + -	Pin 3, B	WHITE