

High Accuracy Heavy-Duty Pressure Transducer



measuring
•
monitoring
•
analyzing

KPG



- Advanced Diffused Semi-conductor and Sputtered Thin Film Sensor Technology
- Variety of Output Signals
- CE Compliant to Suppress RFI, EMI, & ESD
- Absolute or Gauge Measuring Ranges
- High Overpressure Protection
- Fast Response Time
- Stainless Steel Construction
- Pressures up to 145000 PSIG
- Available with a Variety of Electrical Connections



KOBOLD companies worldwide:

ARGENTINA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHILE, CHINA, COLOMBIA, CZECH REPUBLIC, EGYPT, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDONESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, ROMANIA, SINGAPORE, SOUTH KOREA, SPAIN, SWITZERLAND, TAIWAN, THAILAND, TUNISIA, TURKEY, USA, VIETNAM

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High Accuracy Heavy-Duty Pressure Transducer Model KPG

Description

KOBOLD KPG series transducers are designed for heavy duty applications requiring high accuracy. Utilizing either advanced diffused semi-conductor or sputtered thin film technology, the KPG achieves accuracies of $\pm 0.125\%$ at pressures up to 145,000 PSIG. It offers shock resistance, extreme long term sensor stability, and excellent noise immunity (CE compliance). The KPG also offers protection against common installation problems such as reverse polarity wiring, overvoltage, and short circuiting.

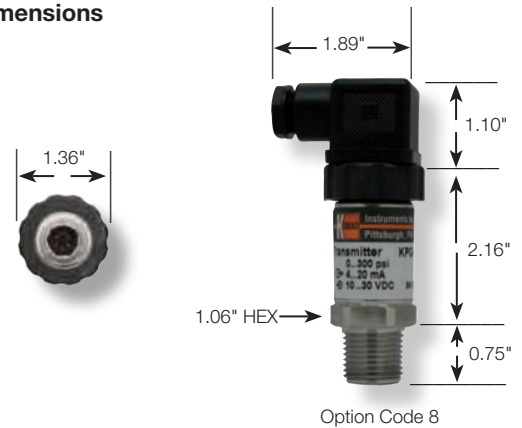
Specifications

Accuracy:	
Standard:	$\pm 0.25\%$ of full scale
Optional:	$\pm 0.125\%$ of full scale
Repeatability:	$\pm 0.05\%$ of full scale
Hysteresis:	$\pm 0.1\%$ of full scale
Fittings:	1/4" NPT, 1/2" NPT, or 9/16"-18 UNF 2B
Materials:	
Wetted Parts:	316 SS up to 300 PSIG 316 SS & 17-4PH over 300 PSIG 316 SS
Case:	316 SS
Temperature Specs:	
Compensation:	32...175 °F
Drift:	$\pm 0.02\%$ / 50 °F
Media:	-20...212 °F
Ambient:	-15...175 °F
Storage:	-40...212 °F
Shock Sensitivity:	< $\pm 0.05\%$ of full scale @ 1000g for 20 ms
Vibration Sensitivity:	< $\pm 0.01\%$ of full scale @ 15g up to 2000 Hz
Pressure Limitations:	
Up to 200 PSI	
Proof Pressure:	3x range
Burst Pressure:	3.8x range
300 PSI to 10000 PSI	
Proof Pressure:	1.75x range
Burst Pressure:	4x range
15000 PSI	
Proof Pressure:	1.5x range
Burst Pressure:	3x range
20000 PSI to 145000 PSI	
Proof Pressure:	1.2x range
Burst Pressure:	1.5x range
Electrical Data:	
Output:	See order details
Adjustability:	$\pm 10\%$ of zero or span
Input Power:	10...30 VDC, 14...30 VDC (0...10 VDC Output Version)
Response Time:	< 1 ms, 10-90% full scale
Frequency Limit:	150 Hz
Protection:	
Environmental:	NEMA 4X, IP65 (IEC529)
Weight:	7.2 oz approx.

Applications

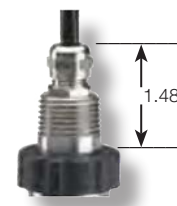
- Hydraulic and Pneumatic Systems
- Industrial Machinery and Machine Tools
- Injection Molding Machines
- Stamping and Forming Processes
- Pumps and Compressors
- Laboratory and Test Equipment
- HVAC Systems
- Refrigeration Equipment
- Petrochemical

Dimensions



Option Code 6

1/2" NPT with 36"
Polyurethane-clad Cable



Option Code 14

Hirschmann with 1/2" NPT
ISO 4400 Conduit



Option Code 3

6 Pin Bendix



Option Code 25

M12 x 1 (4-Pin)



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Order Details (Example: KPG-005001288D)

Range	Model	Accuracy	Output Signal	Fitting	Electrical Connection	Options
-30"Hg...0 PSIG	KPG-0030V..	..1.. = 0.25% of Full Scale (Standard) ..2.. = 0.125% of Full Scale	..1.. = 4-20 mA, 2-Wire (Standard) ..2.. = 0-5 VDC, 3-Wire ..3.. = 1-5 VDC, 3-Wire ..5.. = 0-10 VDC, 3-Wire	..2.. = 1/4" NPT (20,000 PSIG max.) ..6.. = 9/16"-18 UNF 2B Female (Standard for 30,000 to 145,000 PSIG Models) ..8.. = 1/2" NPT Male (20,000 PSIG max.) (Standard)	..1.. = Hirschmann Mating Connector with 36" Cable ..3.. = 6 Pin Bendix (Ni-plated Aluminum) ..6.. = 1/2" NPT Male Conduit with 36" Polyurethane-Clad Cable ..8.. = Hirschmann Mating Connector (Standard) ..14.. = Hirschmann Mating Connector with 1/2" NPT Conduit ..25.. = M12 x 1 (4-pin)	..D = Surge Damping Orifice ..EC* = Extended Cable
-30" Hg...15 PSIG	KPG-30/15..					
-30" Hg...30 PSIG	KPG-30/30..					
-30" Hg...60 PSIG	KPG-30/60..					
-30" Hg...100 PSIG	KPG-30/100..					
-30" Hg...150 PSIG	KPG-30/150..					
-30" Hg...200 PSIG	KPG-30/200..					
-30" Hg...300 PSIG	KPG-30/300..					
0...2 PSIG	KPG-00002..					
0...3 PSIG	KPG-00003..					
0...5 PSIG	KPG-00005..					
0...10 PSIG	KPG-00010..					
0...15 PSIG	KPG-00015..					
0...30 PSIG	KPG-00030..					
0...60 PSIG	KPG-00060..					
0...100 PSIG	KPG-00100..					
0...150 PSIG	KPG-00150..					
0...200 PSIG	KPG-00200..					
0...300 PSIG	KPG-00300..					
0...500 PSIG	KPG-00500..					
0...600 PSIG	KPG-00600..					
0...750 PSIG	KPG-00750..					
0...1000 PSIG	KPG-01000..					
0...2000 PSIG	KPG-02000..					
0...3000 PSIG	KPG-03000..					
0...4000 PSIG	KPG-04000..					
0...5000 PSIG	KPG-05000..					
0...6000 PSIG	KPG-06000..					
0...7500 PSIG	KPG-07500..					
0...10000 PSIG	KPG-10000..					
0...15000 PSIG	KPG-15000..					
0...20000 PSIG	KPG-20000..					
0...30000 PSIG	KPG-30000..					
0...36000 PSIG	KPG-36000..					
0...58000 PSIG	KPG-58000..					
0...72000 PSIG	KPG-72000..					
0...87000 PSIG	KPG-87000..					
0...100000 PSIG	KPG-100XX..					
0...115000 PSIG	KPG-115XX..					
0...145000 PSIG	KPG-145XX..					

* Only with electrical connection options 1 or 6

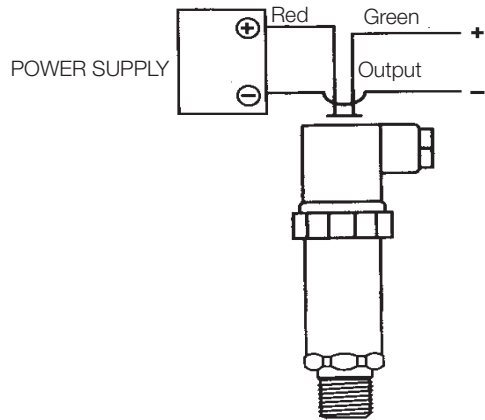
Available Diaphragm Seals**	
KP-1240	1-1/2" Tri-Clamp® Diaphragm Seal, Glycerine Fill
KP-1250	2" Tri-Clamp® Diaphragm Seal, Glycerine Fill
KP-2002 SSG	3/4" NPT, 316 SS Flush Diaphragm, Glycerine Fill
KP-2002 HB2H	3/4" NPT, Hastelloy® B2 Flush Diaphragm Seal, Halocarbon Fill

** Only available for ranges 0...60 PSIG and higher.



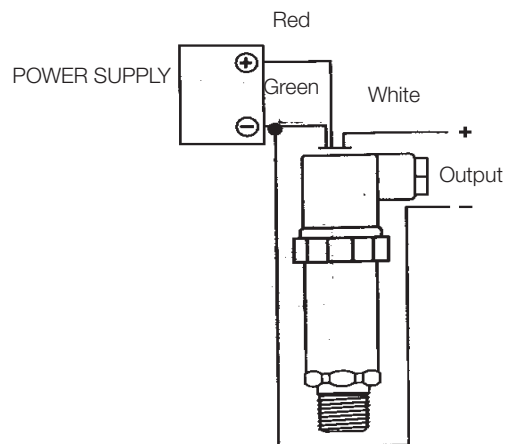
Wiring Diagrams and Electrical Connections

4-20 mA, 2 Wire, Current Loop



Signal	DIN 43650	Wire Color
Supply + (10-30 VDC)	Pin 1, A	Red/Brown
Signal - (4-20 mA)	Pin 2, B	Green

3 Wire, Voltage Output



Signal	DIN 43650	Wire Color
5 VDC Output Option Supply + (10-30 VDC)	Pin 1, A	Red/Brown
10 VDC Output Option Supply + (14-30 VDC)	Pin 1, A	Red/Brown
- Supply, - Signal	Pin 2, C	Green
Signal + -	Pin 3, B	White