

Submersible Pressure Transducer



measuring
•
monitoring
•
analyzing

KPW



- Advanced Semi-Conductor/Thin-Film Sensing Technology
- Variety of Output Signals
- CE EMI Compliant
- High Level of Overpressure Protection
- Fast Response Time
- Stainless Steel Construction
- Submersible Cable Connection



KOBOLD companies worldwide:

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

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Description

KOBOLD KPW series transmitters provide superior performance at affordable prices. Utilizing the same pressure sensing technologies and advanced manufacturing techniques as the rest of our KP line, the KPW can achieve accuracies of $\pm 0.125\%$ at pressures to 1000 PSIG. All this is combined with our high shock resistance, excellent long term sensor stability, and CE compliant noise immunity. The KPW offers protection against common installation problems such as reverse polarity wiring and short circuiting.



Specifications

Accuracy

- Standard:** $\pm 0.25\%$ of Full Scale BFSL
- Optional:** $\pm 0.125\%$ of Full Scale BFSL

Repeatability: $\pm 0.05\%$ of Full Scale

Hysteresis: $\pm 0.1\%$ of Full Scale

Process Connection: Nose Cone, G 1/2 Male

Body Material: 316 Stainless Steel

Cable Material: Polyurethane, PVC

Nose Cone

- Standard:** Polyamide Plastic
- Optional:** 316 SS Weighted

Temp Compensation: 32...122 °F

Temp. Drift: $\pm 0.01\%$ / °F for Zero & Span

Media Temp: 14...122 °F

Storage Temp: -22...175 °F

Shock Sensitivity: $< \pm 0.05\%$ Full Scale
@ 100 g for 20 ms

Vibration Sensitivity: $< \pm 0.01\%$ Full Scale
@ 15 g & 0-2000 Hz

Proof Pressure: 2X Range

Burst Pressure: 4X Range

Output Signal: 4-20 mA, 0-5, 0-10, 0.5-2.5 V_{DC}

Input Power

- 4-20 mA or
- 0-5 V_{DC} Output:** 10...30 V_{DC}
- 0-10 V_{DC} Output:** 14...30 V_{DC}
- 0.5-2.5 V_{DC} Output:** 5...30 V_{DC}

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

Fault Protection: Reverse Polarity, Short Circuit

Protection: NEMA 6P, IP68

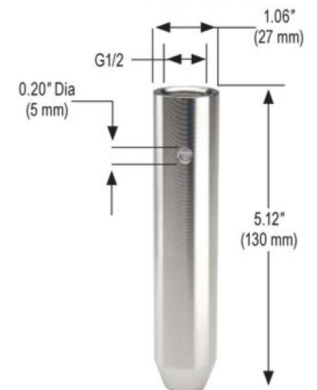
Dimensions



NPT Adapter



Weighted Nosecone





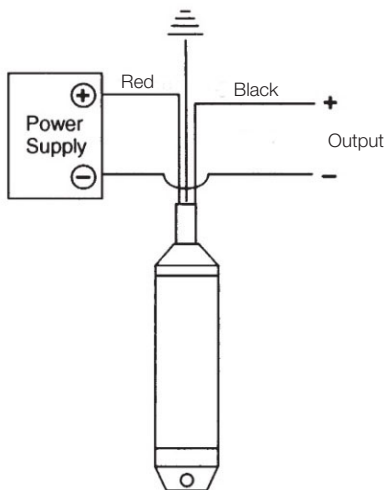
Order Details (Example: **KPW-06015W***)

Model	Range		Accuracy	Output Signal	Nose Cone
KPW-	..AIN.. = 50 inH ₂ O	..025.. = 25 PSIG	..1.. = ±0.25% of Full Scale (Standard)	..1.. = 4-20 mA, 2-Wire (Standard)	..N = ABS Nose Cone (Standard)
	..BIN.. = 100 inH ₂ O	..030.. = 30 PSIG			
	..CIN.. = 150 inH ₂ O	..060.. = 60 PSIG			
	..DIN.. = 200 inH ₂ O	..100.. = 100 PSIG	..2.. = ±0.125% of Full Scale	..2.. = 0-5 V _{DC} , 3-Wire	..W = 316 SS Nose Cone (Weighted)
	..EIN.. = 400 inH ₂ O	..150.. = 150 PSIG			
	..002.. = 2 PSIG	..200.. = 200 PSIG			
	..003.. = 3 PSIG	..300.. = 300 PSIG	..5.. = 0-10 V _{DC} , 3-Wire	..6.. = 0.5-2.5 V _{DC} , 3-Wire	..T = G ½ B x ½" NPT Male with ¼" NPT Female Adapter
	..005.. = 5 PSIG	..350.. = 350 PSIG			
	..010.. = 10 PSIG	..500.. = 500 PSIG			
	..015.. = 15 PSIG	..750.. = 750 PSIG			
..020.. = 20 PSIG	..10X.. = 1000 PSIG				
Optional Accessories					
..CC = Cable Clamp		..DC = Dessicant Cartridge		..FE = Filter Element	

* When ordering, please clearly specify desired length of cable, "L".

Wiring Diagrams and Electrical Connections

Two Wire Example



	4...20 mA	0-5, 0-10, 0.5-2.5 VDC
Supply: +	Red	Red
Common: -		Black
Output: +	Black	White
Case Ground:	Blue	Blue

Three Wire Example

