

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



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KOBOLD Instruments, Inc.



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 ±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.

Applications:

- Irrigation
- Tank Monitoring
- Water & Wastewater
- Well Head Measurement

Technical Specifications

Pressure Ranges: 0...50 inH₂O to 0...1,000 PSIG

Accuracy

(Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)

Standard: ±0.25% of Full Scale BFSL

Optional: ±0.125% of Full Scale BFSL

Stability: <±0.2% of Full Scale for 1 year, Non-Accumulating

Process Connection: Nose Cone, G 1/2 Male

Materials of Construction

Wetted Parts:

Measuring Element:

Nose Cone: Polyamide (Standard), 316 Stainless Steel with Weighted Nosecone (Optional)

Cable: Polyurethane (Standard), PVC or FEP (Optional)

Connection: 316 Stainless Steel

Housing: 316 Stainless Steel

Temperature Specs

Compensated: 32...122 °F

Drift: ±0.01%/F for Zero and Span

Media: 14...122 °F

Storage: -22...175 °F



Proof Pressure: 2X Range

Burst Pressure: 4X Range

Adjustability: ±10% Full Scale for Zero and Span

Response Time: <1 ms (10-90% Full Scale)

Service Life: >100,000,000 Load Cycles

Output: 4-20 mA, 2-wire

0-5 V_{DC}, 3-wire

1-5 V_{DC}, 3-wire

0.5-2.5 V_{DC}, 3-wire

Input Power: 10-30 V_{DC} (4-20 mA, 0-5 V_{DC})

14-30 V_{DC} (0-10 V_{DC})

5-30 V_{DC} (0.5-2.5 V_{DC})

Load Limitations:

4-20 mA: ≤(V_{power Supply} -10)/0.020 Amp

0-5V_{DC}: ≥5,000 Ω

0-10 V_{DC}: ≥10,000 Ω

Shock Sensitivity: 100g according to IEC 60068-2-27

Vibration Sensitivity: 15g according to IEC 60068-2-6

Protection

Environmental: IP68

Electrical: Reverse Polarity and Short Circuit

Electromagnetic Rating: CE Compliant to EMC Norm

EN 61326:1997/A1:1998

RFI, EMI, and ESD Protection

Weight: 7 oz approximately with Standard

Nosecone - Cable Extra



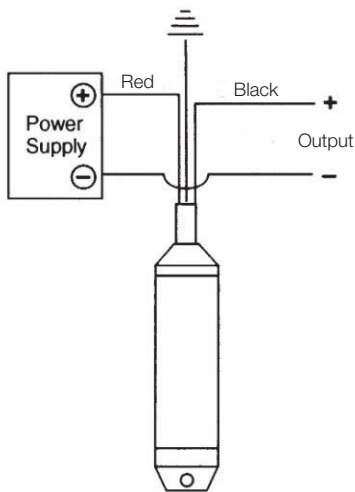
Order Details (Example: **KPW-06015W 40 CC**)

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

*Any length cable is possible. To create a part number for a cable length, insert the exact length of cable, in feet, as the part number. (i.e. 120 feet of cable would result in a part number like KPW-06015W 120)

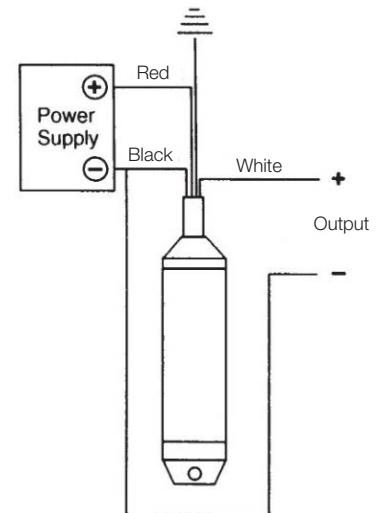
Wiring Diagrams and Electrical Connections

4-20 mA Output, 2 Wire



	4...20 mA Output	Voltage Output
Supply: +	Red	Red
Common: -		Black
Output: +	Black	White
Case Ground	Shield	Shield

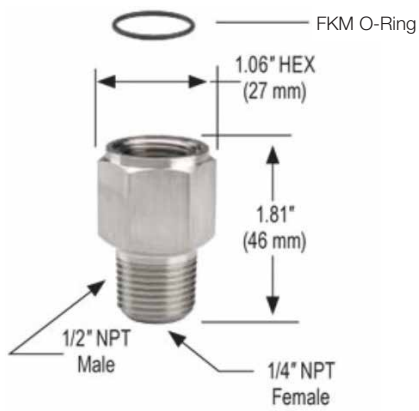
Voltage Output, 3 Wire



Dimensions



NPT Adapter



Weighted Nosecone

