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:

AUSTRALIA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHINA, CZECHIA, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDONESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, REPUBLIC OF KOREA, RUSSIA, SPAIN, SWITZERLAND, THAILAND, TUNISIA, TURKEY, USA, VIETNAM KOBOLD Instruments, Inc. 1801 Parkway View Drive Pittsburgh, PA 15205 ✓ Main Office: 1.800.998.1020 ✓ 1.412.788.4890 info@koboldusa.com www.koboldusa.com



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.

Applications:

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

Technical Specifications

Pressure Ranges:	050 inH2O to 01,000 PSIG	Adjı Res
(n-linearity, hysterisis, non-repeatability,	Ser
zero point and full scale en Standard: Optional:	±0.25% of Full Scale BFSL ±0.125% of Full Scale BFSL	Out
Stability:	<±0.2% of Full Scale for 1 year, Non-Accumulating	Inni
Process Connection:	Nose Cone, G ½ Male	Inpu
Materials of Construction Wetted Parts: Measuring Element:	1	Loa 2
Nose Cone:	Polyamide (Standard), 316 Stainless Steel with Weighted Nosecone (Optional)	(
Cable:	Polyurethane (Standard), PVC or FEP (Optional)	Sho Vibr
Connection: Housing:	316 Stainless Steel 316 Stainless Steel	Prot E
Temperature Specs		E Elct
Compensated: Drift: Media:	32122 °F ±0.01%/F for Zero and Span 14122 °F	Liot
Storage:	-22175 °F	We



Proof Pressure: Burst Pressure:	2X Range 4X Range
Adjustability: Response Time: Service Life:	±10% Full Scale for Zero and Span <1 ms (10-90% Full Scale) >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: 0-5V _{DC} : 0-10 V _{DC} :	≤(Vpower Supply -10)/0.020 Amp ≥5,000 Ω ≥10,000 Ω
Shock Sensitivity: Vibration Sensitivity:	100g according to IEC 60068-2-27 15g according to IEC 60068-2-6
Protection Environmental: Electrical: Elctromagnetic Rating:	IP68 Reverse Polarity and Short Circuit CE Compliant to EMC Norm EN 61326:1997/A1:1998 RFI, EMI, and ESD Protection
Weight:	7 oz approximately with Standard Nosecone - Cable Extra



Model	Ra	nge	Accuracy	Output Signal	Nose Cone	Cable Length*
KPW-	AIN = 050 inH ₂ O BIN = 0100 inH ₂ O CIN = 0150 inH ₂ O DIN = 0200 inH ₂ O EIN = 0400 inH ₂ O 002 = 02 PSIG 003 = 03 PSIG 005 = 05 PSIG 015 = 010 PSIG 015 = 015 PSIG 020 = 020 PSIG	025 = 025 PSIG 030 = 030 PSIG 060 = 060 PSIG 100 = 0100 PSIG 150 = 0150 PSIG 200 = 0200 PSIG 300 = 0300 PSIG 350 = 0350 PSIG 500 = 0750 PSIG 10X = 01000 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)
Optional Accessories						
	CC = Cable ClampDC = Dessicant CartridgeFE = Filter Element				ilter Element	

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

*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)

Accesories

Cable Clamp

Dessicant Cartridge

Filter Element









Voltage Output, 3 Wire

Electrical Connections

4-20 mA Output, 2 Wire

	420 mA Output			
Connection Type	V+	V-	Case Ground	
Polyurethane Cable (Standard)	Brown	Green	Gray	
FEP Cable (Optional)	Brown	White	Blue	

	0 - 5 V _{DC} , 0 -1 0 V _{DC} , 0.5 - 2.5 V _{DC} Output			
Connection Type	V+	Common	Output	Case Ground
Polyurethane Cable (Standard)	Brown	Green	White	Gray
FEP Cable (Optional)	Brown	Green	White	Gray

Dimensions



NPT Adapter



Weighted Nosecone

