KPW
SUBMERSIBLE PRESSURE TRANSDUCER

Flow
Pressure
Level
Temperature
measurement
monitoring
control

N2

- **Advanced Piezoresistive Sensing Technology**
- **Variety of Output Signal**
- **CE EMI Compliant**
- **High Overpressure Protection**
- **Fast Response Time**
- **Stainless Steel Construction**
- **Submersible Cable Connection Standard**

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Model:
KPW

Features

- Advanced piezoresistive sensing technology
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When nothing but a submersible pressure sensor will do, you can count on the KOBOLD KPW series transducers to 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 ±0.12% at pressures to 300 PSIG. All this with our typical high shock resistance, excellent long term sensor stability and CE compliant noise immunity.

Along with these features, the KPW offers “snafu” protection against common installation problems such as reverse polarity wiring, overvoltage and short circuiting. Our 100% inspection and testing program ensures a trouble-free installation process.

KOBOLD KPW Pressure Transducer

Specifications

Accuracy
- **Standard:** ±0.25% of full scale
- **Optional:** ±0.12% of full scale
- **Included Components**
  - **Repeatability:** ±0.05% of full scale
  - **Hysteresis:** ±0.1% of full scale

Process Connection: Nose cone only or nose cone w/ weight

Materials of Construction
- **Wetted Parts**
  - **Metals:** 316 SS
  - **Nose Cone:** ABS Plastic
    - **Optional:** 316 SS (weighted)
  - **Cable:** Polyurethane, PVC

Temperature Information
- **Compensation:** 32°F to 122°F
- **Drift:** ±0.2%/50°F
- **Medium:** 14°F to 175°F
- **Storage:** -22°F to 175°F

Shock Sensitivity: < ±0.05% full scale @100g for 20 ms

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

Pressure Limitations
- **Proof Pressure:** 2 x range
- **Burst Pressure:** 4 x range

Electrical Data
- **Output:** -See ordering table
  - **Adjustability:** ±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 6
  - **Fault:** Reverse polarity, overvoltage, short circuit

Applications

- Irrigation
- Food and beverage
- Waste water
- Water distribution
- Level and depth
- Bore hole
- Wells
- Offshore
- Research and Development
- Marine

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KPW Ordering Information

KPW = Submersible Pressure Transducer

-Range = Pressure Range Abbreviation — **Available Measuring Ranges**

002 = 2 PSIG	**010** = 10 PSIG	**030** = 30 PSIG	**100** = 100 PSIG	**200** = 200 PSIG
003 = 3 PSIG	**015** = 15 PSIG	**060** = 60 PSIG	**150** = 150 PSIG	**300** = 300 PSIG
005 = 5 PSIG				

Accuracy

- **1** = ± 0.25% of full scale (standard)
- **2** = ± 0.12% of full scale

Output Signal

- **1** = 4-20 mA, 2-wire (standard)
- **2** = 0-5 VDC, 3-wire
- **5** = 0-10 VDC, 3-wire
- **6** = 0.5-2.5 VDC, 3-wire (operates on 6 VDC input power)

Nose Cones

- **N** = ABS Nose Cone (standard)
- **W** = 316 SS Nose Cone (weighted)

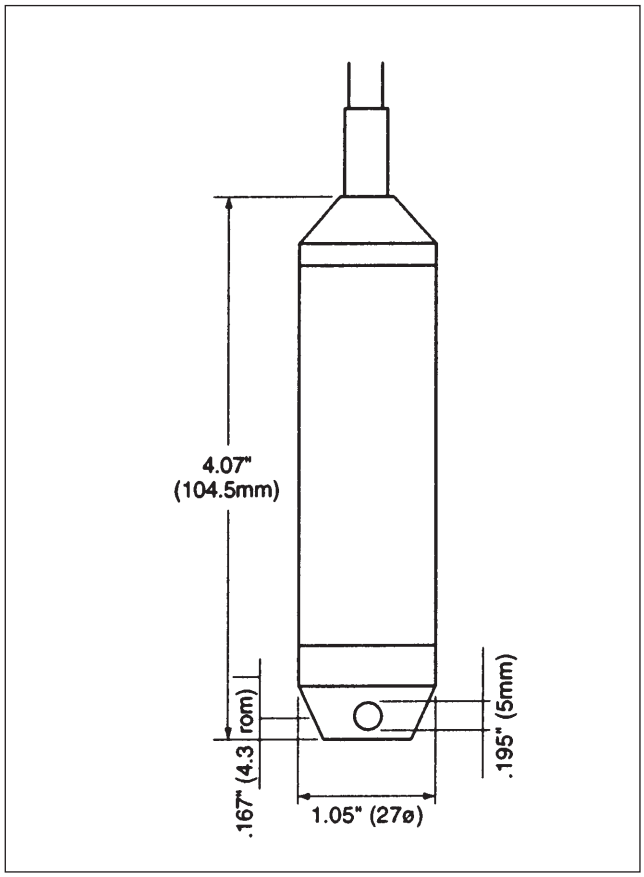
Electrical Connections

- **LXXX** = Submersible cable (L = cable length in feet)

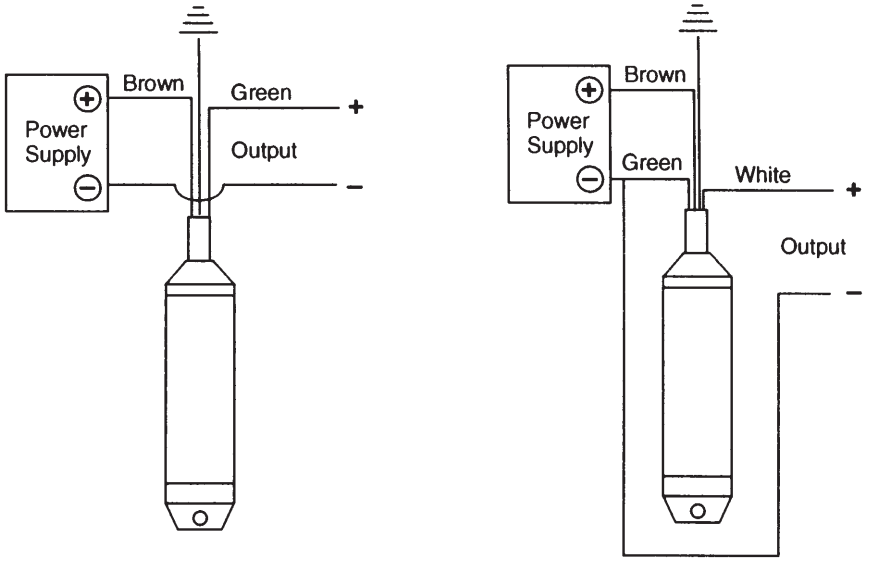
Sample KPW Specification with 16’ of cable

KPW -060 -1 -5 -W -L16

Dimensions



Wiring Diagrams and Electrical Connections



2 WIRE WIRING DIAGRAM EXAMPLE

3 WIRE WIRING DIAGRAM EXAMPLE

	4...20 mA	0...10VDC
Supply: +	brown	brown
Supply: –		green
Signal: +	green	white
Signal: –		
Case earth	blue	blue