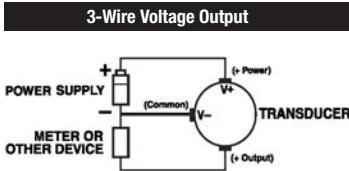
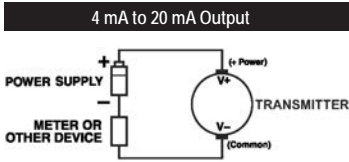


## Electrical Installation:



**V+** = Supply Voltage

**V-** = 4 mA to 20 mA Signal

**Output** = Voltage Output Signal

**Common** = Supply Voltage Return/Ground

### Load Limitations:

4 mA to 20 mA Output Only

$V_{min} = 10V + (.020 \times RL)$

$RL = RS + RW$

$RL = \text{Loop Resistance (ohms)}$

$RS = \text{Sense Resistance (ohms)}$

$RW = \text{Wire Resistance (ohms)}$

### Load Limitations (KPW Only):

4 mA to 20 mA Output Only

$V_{min} = [10V + (.020 \times RL)] - RC$

$RL = RS + RW$

$RL = \text{Loop Resistance (ohms)}$

$RS = \text{Sense Resistance (ohms)}$

$RW = \text{Wire Resistance (ohms)}$

$RC = 0.0435 \times \text{cable length (ft.)}$

## Installation Information:

KOBOLD pressure & temperature transmitters/transducers may be mounted in any plane with negligible effect on performance. Although these units are designed and manufactured to withstand substantial shock and vibration, it is recommended that they be mounted in an area of minimal vibration. Always use a wrench on the wrench flats when installing. NEVER use a pipe wrench on the housing or in the area of the electrical connection.

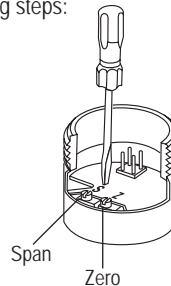
## Maintenance/Calibration:

KOBOLD pressure and temperature transmitters/transducers require no maintenance. Recalibration is dependent on the users Quality Assurance Program. If no program is in place, KOBOLD recommends a 1 year cycle.

## Alignment Procedure:

Using a pressure source and meter with adequate accuracy, perform the following steps:

- Open sensor
- With no pressure applied, adjust the "Z" potentiometer for the correct Zero output
- Apply the correct full scale pressure to the unit
- Adjust the "S" potentiometer for the correct Span output



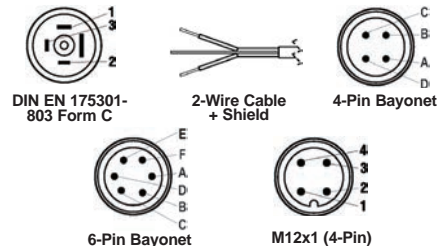
**KOBOLD  
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# KOBOLD

## Transmitters/Transducers Wiring Diagrams

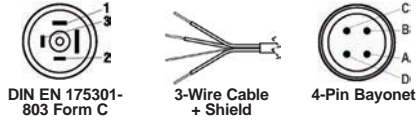
### KPK Current Output Pressure Transmitter



### Current output, 2-wire

KPK	4 mA to 20 mA	
	V+	V-
CONNECTION TYPE		
DIN EN 175301-803 Form C	1	2
DIN EN 175301-803 Form C w/ Cable	Red	Black
4 or 6-Pin Bayonet	A	B
1/2" NPT Conduit w/ Cable	Red	Black
M12 x 1, 4-Pin	1	3
Integral Cable	Red	Black

## KPK Voltage Output Pressure Transducer



### Voltage output, 3-wire

KPK	0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 1-11 Vdc		
CONNECTION TYPE	V+	COMMON	OUTPUT
DIN EN 175301-803 Form C	1	2	3
DIN EN 175301-803 Form C w/ Cable 4 or 6-Pin Bayonet	Red	Black	White
1/2" NPT Conduit w/ Cable	Red	Black	White
M12 x 1, 4-Pin	1	3	4
Integral Cable	Red	Black	White

## KPW Submersible Level Transmitter/Transducer



NOTE: Vent tube included for atmospheric compensation.

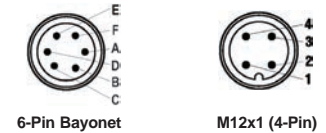
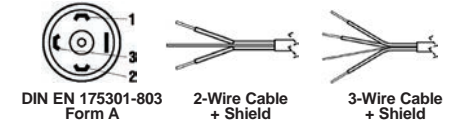
### Current output, 2-wire

KPW	4 mA to 20 mA		
	CONNECTION TYPE	V+	V-
PUR Cable	Brown	Green	Gray
FEP Cable	Brown	White	Blue

### Voltage output, 3-wire

KPW	0-5 Vdc, 0-10 Vdc, 0.5 to 2.5 Vdc			
CONNECTION TYPE	V+	COMMON	OUTPUT	CASE GROUND
PUR Cable	Brown	Green	White	Gray
FEP Cable	Brown	Green	White	Gray

## KPG High Accuracy Heavy-Duty Pressure Transducer/Transmitter



### Current output, 2-wire

KPG	4 mA to 20 mA	
CONNECTION TYPE	V+	V-
DIN EN 175301-803 Form A	1	2
DIN EN 175301-803 Form A w/ Cable	Red	Black
6-Pin Bayonet	A	B
1/2" NPT Conduit w/ Cable	Red	Black
M12 x 1, 4-Pin	1	3
Integral Cable	Red	Black

### Voltage output, 3-wire

KPG	0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 1-11 Vdc		
CONNECTION TYPE (CODE)	V+	COMMON	OUTPUT
DIN EN 175301-803 Form A	1	2	3
DIN EN 175301-803 Form A w/ Cable	Red	Black	White
6-Pin Bayonet	A	B	C
1/2" NPT Conduit w/ Cable	Red	Black	White
M12 x 1, 4-Pin	1	3	4
Integral Cable	Red	Black	White