

PXT-K Series Pressure Transmitters



Features

- 4-20 mA Output Signal
- Piezoresistive Pressure Transmitter
- Corrosion Resistant Construction
- High Stability

The **PXT-K Series** pressure transmitters are state-of-the-art instruments providing 4-20 mA output. Each Piezoresistive Pressure Transmitter contains a transducer comprised of a piezoresistive silicon chip mounted on a glass-metal feed-through header welded into a stainless steel housing and filled with silicone oil; the very thin laser-welded stainless steel isolation-diaphragm completes the front side. Media pressure is transferred from the stainless steel isolation-diaphragm, via the oil inside the cell, to the silicon measuring chip. This construction, combined with the advanced internal signal conditioning circuitry, results in a rugged instrument with extremely small temperature error and class-leading EMI/RFI resistance.

The enclosure and all wetted parts are made of 316L stainless steel to meet NACE MR01-75.

Applications: **PXT-K Series** Pressure Transmitters can be used in applications such as Compressors, Engines, Process Control, Liquid Level and Pumps.

Specifications

Operating Pressure Range: See the part number matrix on the reverse side.

Operating Temperature: -40 to 180°F (-40 to 82°C).

Compensated Temperature Range: -20 to 160°F (-29 to 71°C).

Physical Characteristics:

Process Connection: 1/4 NPT female with 7/8" Hex Nut.

Electrical Connection (PXT-K-XXX): 1/2" NPT Male Conduit connection with 60" long cable, vented

Enclosure: NEMA 4/IP65 or better

Body: 316L Stainless Steel. Meets NACE MR01-75.

Wetted Parts: 316L stainless steel

Environmental Effect (Humidity): No effect for 0-95%, Non-condensing

Mounting: Transmitter can be installed in any axis. Transmitter position has negligible affect on performance as long as it is perpendicular to the flow being monitored.

Shock Resistance: 1000g per IEC 60068-2-6 (Mechanical Shock)

Vibration Resistance: 20G per IEC 60068-2-6 (Vibration under resonance)

Wiring Protection: Protected against reverse polarity and short circuit, 48 VDC Maximum

Supply Voltage: 8 - 30 VDC (Typically 24 VDC)

Transmitter Output: 4-20mA, two wire configurations with load characteristics

Insulation: Greater than 10MΩ @ 300 VDC

Electromagnetic Compatibility (EMC): Standards; EN 61000-6-2:2005, EN 61000-6-3:2007, EN 61326-2-3:2006

Voltage Surge/Spike Protection: Protection against a 600 Volt spike per IEC 60-2

Shipping Weight: 6.5 ounces

Applicable Standards:

NACE MR0175 Compliant with the requirements

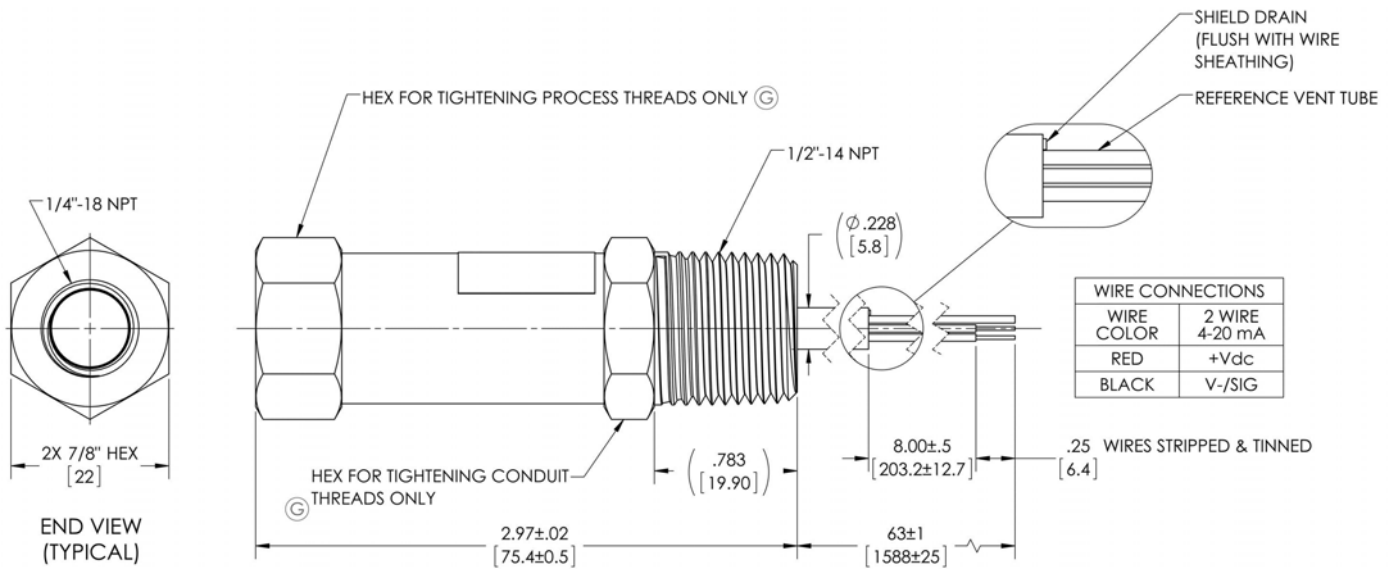
CSA (c/us): Class I / II / III, Div 1, Groups A-F T4
Class I / II / III, Div 2, Groups A-D,F,G T4

ATEX: IExU 10 ATEX 1124 X

II 1G Ex ia IIC T6-T4

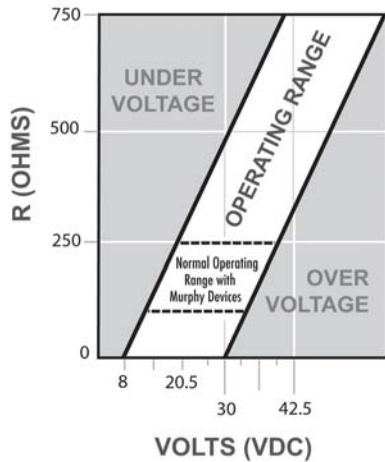
II 3G Ex nA IIC T6

Product Dimensions - PXT-K



Operating Range

Supply voltage for the PXT-K must be within range of 8-30 VDC. The graph below shows the minimum supply voltage (VDC) required for a given load resistance (R).



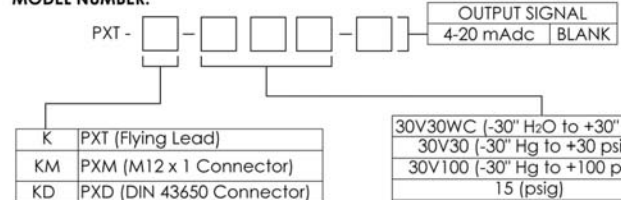
LOOP RESISTANCE GRAPH

How to Order

PXT-K Series Model Number Matrix

Example: PXT-K-600
Murphy two wire Pressure Transmitter with Flying Lead Connection, 0-600psig range, 4-20 mAdc output. If no digit follows the pressure range, it is automatically a 4-20 mAdc output signal.

MODEL NUMBER:



30V30WC (-30" H ₂ O to +30" H ₂ O)
30V30 (-30" Hg to +30 psig)
30V100 (-30" Hg to +100 psig)
15 (psig)
60
100
200
300
400
600
1000
2000
3000
5000
6000
10000

Range Clarification:

30V30WC: -30 WC to +30WC

30V30: -30" HG to +30PSI



30V100: -30" HG to +100PSI

All other ranges listed are in PSI

PXT and PXT-K Series Pressure Transmitter Cabling Identification

The PXT Series Pressure Transmitters have been changed. Previous pressure transmitters in this series were identified as **PXT Pressure Transmitters**. The newest version is the **PXT-K Series Pressure Transmitters**. Identification of electrical cable color is NOT interchangeable between the two series of pressure transmitters.

This document contains information to assist you in identifying the pressure transmitter unit you have and the correct electrical cable colors to avoid wiring mistakes.

PXT SERIES	PXT-K SERIES
 <p data-bbox="199 982 711 1220"> Indentations on the hex coupling for controlled locking. Product has a step-down between the transmitter body and hex coupling. </p>	 <p data-bbox="1122 1031 1435 1199"> No step-down between the body and the hex coupling. No indentations on the hex coupling. </p>

Cable Color	Connection	Cable Color	Connection
RED	POWER	RED	POWER
BLUE	SIGNAL	BLUE	N/A
BLACK	CASE GROUND	BLACK	SIGNAL
ORANGE, YELLOW, WHITE	N/A	ORANGE, YELLOW, WHITE	N/A
Installation Instructions	00-02-0475	Installation Manual	00-02-0840
Installation Diagram	05-08-0754	Installation Diagram	05-08-0763



美国Murphy仪表经销商：

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