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Pressure Transmitters PXT-K Series

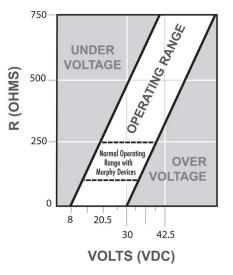
The PXT-K Series pressure transmitters are stateof-the-art instruments providing 4-20 mA output. Each piezoresistive pressure transmitter contains a transducer comprised of a piezoresistive silicon chip mounted on a glass-metal feed-through header welded into a stainless steel housing and filled with silicone oil. The very thin laser-welded stainless steel isolationdiaphragm 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.

PXT-K Series Pressure Transmitters can be used in applications such as compressors, engines, process control, liquid level and pumps.

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



Specifications

Operating Pressure Range: See How to Order under the PXT-K Series Model Number Matrix.

Operating Temperature: -22 to 176° F (-30 to 80° C) **Compensated Temp Range:** -20 to 160° F (-29 to 71° C) **Process Connection:**

1/4"-18 NPT female with 7/8" hex nut (2000 psig and below), or 1-3/16" hex nut (3000 psig and above) models

Electrical Connection:

PXT-K: 1/2" NPT male conduit connection, 60" long cable, vented PXT-KM: M12 connector

Enclosure: NEMA 4/IP65 or better

Body: 316L stainless steel

Wetted Parts: 316L stainless steel

Environmental Effect (Humidity):

No effect for 0-95%, non-condensing **Mounting:** All axis positions, has negligible effect on performance as long as it is perpendicular to the flow being monitored.

Shock Resistance:

800g per IEC 60068-2-27 (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:

4-20 mA, two wire configurations with load characteristics **Insulation:** Greater than 10 M Ω @ 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

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: IBEXU 10 ATEX 1124 X

II 1G Ex ia IIC T6-T4 II 3G Ex nA IIC T6

Canadian Registration Number: OF15236.2 (all providences and territories)

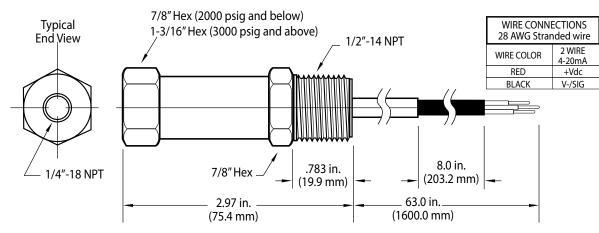
Specifications (continued)

Accuracy:

% of Span (BFSL)	+/- 0.25% of span*
Zero/Span Setting Tolerance	+/- 2.5% of full scale* max. (30V30WC only)
	+/- 0.25% of span* typical,
	+/-0.5% of span* max (all other ranges)
Operating Temperature	+/- 2.5% of span T.E.B.
Compensated Temperature	+/- 1.7% of span T.E.B.
Response Time	<5mS
* Accuracy Tolerance to be applied	d at 25° C.

Dimensions

The Hex is for tightening process threads only. The 7/8" Hex is on the 2000 psig and below models. The 1 3/16" Hex is on the 3000 psig and above models.



How to Order

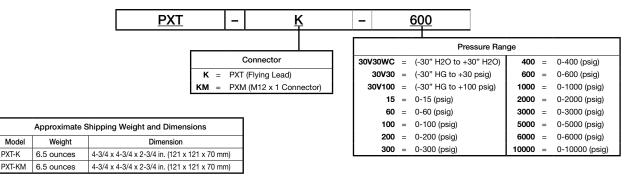
Model

PXT-K

NOTE: Installation Manual 00-02-0840 and Installation Diagram 05-08-0763 are available at fwmurphy.com.

Options listed below. All configurations may not be available. Call your sales representative or FW Murphy for more information.

Example: PXT-K-600 = FW Murphy two wire Pressure Transmitter with Flying Lead Connection, 0-600 psig range.



Part Number	Model and Description	Notes
86031205	Adapter 1/4" x 1/4 NPT 316	
40051047	Cable, PXT-KM, M12 X 3 ft.	
40051048	Cable, PXT-KM, M12 X 6 ft.	
40051082	Cable, PXT-KM, M12 X 30 ft.	
40051049	Cable, PXT-KM, M12 X 50 ft.	
40051050	Cable, PXT-KM, M12 X 100 ft.	