



PXT-K Series

Pressure Transmitters



The PXT-K Series pressure transmitters are state-of-the-art instruments that can be used in applications such as compressors, engines, process control, liquid level and pumps.

- Piezoresistive pressure transmitter
- Used with compressors, engines, process control, liquid level and pumps
- 4-20 mA output signal
- Corrosion resistant construction
- High stability

Overview

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.

Specifications

Operating Range

- Operating Pressure Range:
 - See How to Order under the PXT-K Series Model Number Matrix in the FW Murphy bulletin
- 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 in. -18 NPT female with 7/8 in. or 1-3/16 in. hex nut
- Electrical Connection:
 - PXT-K: 1/2 in. NPT male conduit connection with 60 in. long cable, vented
 - PXT-KM: M12 connector
- Enclosure Rating: IP65
- Body: 316L stainless steel
- 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 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

HEAD OFFICE, MARKETING & BUSINESS DEVELOPMENT

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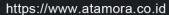
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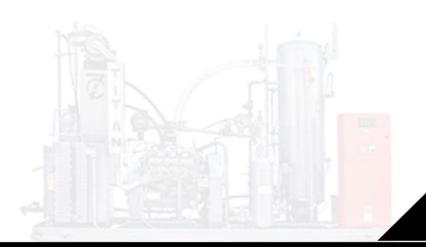


PXT-K SeriesPressure Transmitters

- Supply Voltage: 10 30 VDC (Typically 24 VDC)
- Transmitter Output: 4-20mA, two wire configurations with load characteristics
- **Insulation**: Greater than $10M\Omega$ @ 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 provinces and territories)



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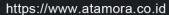
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Pressure Transmitters

PXT-K Series

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 or Inconel housing and filled with 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.

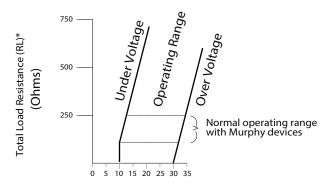
The enclosure and all wetted parts are made of 316L stainless steel / alloy 625 (Inconel).

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 10-30 VDC. The graph below shows the minimum supply voltage (VDC) required for a given load resistance (R).

Loop Resistance Graph



Power Supply Voltage (VDC)
*Note: Cable resistance effect included in RL.

Minimum Voltage for Common Input Modules			
Model	Input Impedance	Vmin	
Centurion C4-1	231 Ω	13.62	
MX5	221 Ω	13.42	
Centurion C5	200.0	13.00	
MX5-R2	200 Ω		
Third-Party PLC (typical)	249 Ω	13.98	





Specifications

Operating Pressure Range: See table, Pressure Range under How to Order section.

Operating Temperature Range: -22 to 212° F (-30 to 100° C) Certified Temperature Range: -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 15/16" hex nut (3000 psig and above)

Electrical Connection:

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

Enclosure Rating: IP65

Body: 316L stainless steel / alloy 625 (Inconel)

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: 10 - 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

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
Compensated Temperature

+/- 2.5% of span T.E.B. +/- 1.7% of span T.E.B.

Response Time <5mS * Accuracy tolerance to be applied at 25° C.

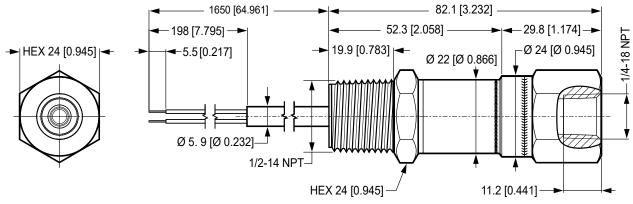
Connections:

PXT-K Connections			
Wire Color	2 Wire, 4-20 mA		
Black (BK)	V-/SIG		
Red (RD)	+ Vdc		

PXT-KM Pin Assignment			
Pin (Color)	2 Wire, 4-20 mA		
Pin 1	N.C.		
Pin 2 (Black)	V-/SIG		
Pin 3 (Red)	+ Vdc		
Pin 4	N.C.		

Dimensions

The hex are for tightening process threads only. Do not twist the body. Hold hex when attaching to pressure source and when attaching conduit threads. The PXT-K 3000 psgi model is shown.

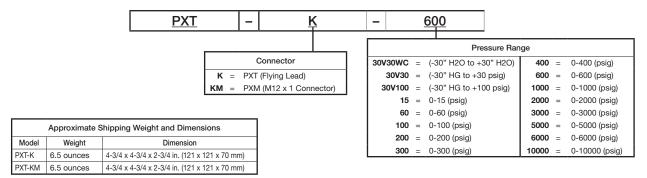


How to Order

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.	