PRODUCT IDENTIFICATION

Enclosure Local Display NIST Range Response PX
D = Duct L = LCD Display N = NIST 01 = 0-1"W.C./0-250Pa S = Selectable
P = Panel X = No Display X = None 02 = 0-10"W.C./0-2.500kPa F = Selectable PXU
L = LCD Display N = NIST 05 = 0-10"/0-2.500kPa S = Selectable
X = No Display X = None

EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper surge protection (EN 61000-6-1:2007 specification requirements).
* Minimum input voltage for 4-20 mA operation: 250 Ω loop = 13 VDC; 500 Ω loop = 19 VDC

DIMENSIONS

Quick Install
1. Plan the installation. Panel or duct mount?
2. For duct mounting, thread the probe into the rear of the device housing.
3. Configure the internal tubing for the selected installation method.
4. Mount the housing vertically.
5. Attach pilot tubing.
**INSTALLATION**

1. Plan the installation. Panel or duct mount?

2. For duct mount applications, thread the probe into the back of the device housing.

3. Configure the internal tubing for the selected installation method as shown below. Use the larger diameter tubing for the duct mount configuration.

4. Mount the transducer (see the screw hole diagram). Position the transducer vertically.

5. Determine the length of pilot tubing needed.
**WIRING & CONFIGURATION**

Connect the transmitter to the control system and power supply as indicated below.

Optional: Connect the ZERO terminals to the digital output (contact closure) of the control system.

Use the switch to select voltage (V) or current (mA) mode.

Jumper JP4: select 0-10 V or 0-5 V output span (voltage mode only).

Jumper JPS: select bidirectional or unidirectional mode.

Jumper JP7: select inches W.C. or Pascal scale

Jumper JP8: select fast or standard response time.

Align the arrow (not the slot) on the rotary switch to the desired full-scale range. LCD models momentarily indicate the selected range.

**OPERATION**

PX Series devices employ ceramic capacitive sensors and sophisticated temperature compensation circuitry. The sensor achieves its best accuracy after an initial warm-up period. During the first few minutes of operation, readings at zero pressure and the lowest pressure ranges appear erroneous. Following this initial warm-up period, PX Series maintains its specified accuracy and stability.

**LCD DISPLAY:** The display momentarily indicates range “SET” when selection is made. Pressure is normally indicated on the display. Units are in inches water column (in. W.C.), Pascals (Pa) or kilopascals (kPa) as indicated on the display. The display shows OVER when the pressure is over range.

**ZERO:** Press and hold the ZERO pushbutton for 2 seconds or provide contact closure on ‘AUX ZERO’ terminal to automatically reset the output and display to zero pressure. To protect the unit from accidental zero, this feature is enabled only when the detected pressure is within about 0.1 in. W.C. (25 Pa) of factory calibration.

**Range Selection Guide**

<table>
<thead>
<tr>
<th>Rotary Switch Position</th>
<th>PX01 Inches W.C.</th>
<th>PX02 Inches W.C.</th>
<th>PX05 Inches W.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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</tr>
<tr>
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<td>0.25</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
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<td>1</td>
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</tr>
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<td>5</td>
<td>1 kPa</td>
</tr>
<tr>
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<td>10</td>
<td>2.5 kPa</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>10</td>
<td>2.5 kPa</td>
</tr>
</tbody>
</table>

**WARNING:** Do not apply power to output terminal! Permanent damage will result.

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**2-wire, 4-20 mA**

**3-wire, 0-5 V/0-10 V**