The Series 629 Differential Pressure Transmitter monitors differential pressure of air and compatible gases and liquids with 0.5% accuracy. The design employs dual pressure sensors converting pressure changes into a standard 4-20 mA output signal for two wire circuits. Small internal volume and minimum moving parts result in exceptional response and reliability. Terminal block, zero and span adjustments are easily accessed under the top cover. The Series 629 Differential Pressure Transmitter is designed to meet NEMA 4X (IP66) construction.

APPLICATIONS
Monitor differential pressures across:
- Flow elements
- Heat exchangers
- Filters
- Pumps
- Coils

**SPECIFICATIONS**

Service: Compatible gases & liquids.

Wetted Materials: Without value: 316, 316L SS. Additional wetted parts with 3-way valve option: Buna-N, silicone grease, PTFE, brass 360, copper, reinforced acetal copolymer.

Accuracy: ±0.5% F.S. (includes linearity, hysteresis & repeatability).

Temperature Limits: 0 to 200°F (-18 to 93°C).

Compensated Temperature Limits: 0 to 175°F (-18 to 79°C).

Pressure Limits: See chart.

Thermal Effect: 0.02%/°F (0.036%/°C) includes zero & span.


Output Signal: 4 to 20 mA. Optional 0-5, 0-10 VDC.

Response Time: 50 msec.


Electrical Connections: Terminal block; 1/2˝ female NPT conduit.

Process Connections: 1/4˝ female NPT.

Enclosure Rating: Designed to meet NEMA 4X (IP66).

Mounting Orientation: Not position sensitive.

Weight: 10.1 oz (286 g).

Agency Approvals: CE.

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (psid)</th>
<th>Working* Pressure (psid)</th>
<th>Over Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>629-02-CH-P2-E5-S1</td>
<td>10</td>
<td>20</td>
<td>100</td>
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<tr>
<td>629-03-CH-P2-E5-S1</td>
<td>25</td>
<td>50</td>
<td>250</td>
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<tr>
<td>629-04-CH-P2-E5-S1</td>
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<td>100</td>
<td>250</td>
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<tr>
<td>629-05-CH-P2-E5-S1</td>
<td>100</td>
<td>200</td>
<td>500</td>
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</tbody>
</table>

* Pressures exceeding the working pressure limit may cause a calibration shift of up to ±3% of full scale.

3-Way Valve Manifold

<table>
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<th>Range (psid)</th>
<th>Working* Pressure (psid)</th>
<th>Over Pressure (psi)</th>
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<tbody>
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<td>629-02-CH-P2-E5-S1-3V</td>
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<tr>
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<td>100</td>
<td>100</td>
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</tr>
</tbody>
</table>

**OPTIONS**
- LED, 4.5 Digit LED Display

**ACCESSORIES**
- A-228, Stainless steel flex hose, 12” (30.48 cm) long, 1/8” male NPT connections.
- A-229, Stainless steel flex hose, 18” (45.72 cm) long, 1/8” male NPT connections.
- A-332, Brass adapter, 1/8” female NPT to 1/4” male NPT.