**FEATURES/BENEFITS**

- Versatile, high accuracy device for liquid or gas supports designs requiring more precise measurements in support of application
- Removable terminal block reduces wiring difficulties saving installation time
- Optional LCD indicator provides local status to identify operational conditions
- Optional 3-way valve manifold allows the transmitter to be zeroed without removing it from service and protects the transmitter from damage due to water hammer

**APPLICATIONS**

- Flow elements
- Coils
- Heat exchangers
- Chiller
- Filters
- Pumps

**DESCRIPTION**

The SERIES 629C Wet/Wet Differential Pressure Transmitter monitors differential pressure of compatible gases and liquids with 0.5% accuracy. The design employs dual pressure sensors converting pressure changes into a 4 to 20 mA or voltage output signal. Small internal volume and minimal moving parts result in exceptional response and reliability. The wiring terminals and zero adjustment button are easily accessed under the removable cover. The Series 629C is designed to meet NEMA 4X (IP66) weatherproof construction.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Service</th>
<th>Compatible gases and liquids.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetted Materials Without valve: 316, 316L SS. With valve option: Buna-N, silicone grease, PTFE, brass 360, copper, and reinforced copolymer.</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.5% FS (includes linearity, hysteresis &amp; repeatability).</td>
</tr>
<tr>
<td>Thermal Effect</td>
<td>Avg 0.04%/°F (0.072%/°C) (includes zero and span).</td>
</tr>
<tr>
<td>Display</td>
<td>Optional 4-1/2 digit LCD field attachable display.</td>
</tr>
<tr>
<td>Stability</td>
<td>±1% FS/yr.</td>
</tr>
<tr>
<td>Temperature Limits</td>
<td>0 to 200°F (-18 to 93°C).</td>
</tr>
<tr>
<td>Pressure Limits</td>
<td>See chart on catalog page.</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>10 to 35 VDC (2-wire); 13 to 35 VDC, or isolated 16 to 33 VAC (3-wire).</td>
</tr>
<tr>
<td>Output Signal</td>
<td>4 to 20 mA (2-wire); Field selectable: 0 to 5, 1 to 5, 0 to 10, or 2 to 10 VDC (3-wire).</td>
</tr>
<tr>
<td>Zero and Span Adjustments</td>
<td>Push buttons inside conduit enclosure.</td>
</tr>
<tr>
<td>Loop Resistance</td>
<td>Current output: 0 to 1250Ω max; Voltage output: Load resistance 5 kΩ min.</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>28 mA max.</td>
</tr>
<tr>
<td>Electrical Connections</td>
<td>Removable terminal block; 1/2&quot; female NPT conduit.</td>
</tr>
<tr>
<td>Process Connections</td>
<td>1/4&quot; female or male NPT.</td>
</tr>
<tr>
<td>Mounting Orientation</td>
<td>Not position sensitive.</td>
</tr>
<tr>
<td>Weight</td>
<td>10.1 oz (286 g).</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>CE.</td>
</tr>
</tbody>
</table>
**Wet/Wet Differential Pressure Transmitter**

**TMP-629C**

**DIMENSIONS**

**WIRING DIAGRAM**

Current Output Connection

Voltage Output Connection

**HOW TO ORDER**

Use the bold characters from the chart below to construct a product code:

- **SERIES**: 629C - Wet/Wet Differential Pressure Transmitter
- **RANGE**:
  - 01 - 0 to 5 psid
  - 02 - 0 to 10 psid
  - 03 - 0 to 25 psid
  - 04 - 0 to 50 psid
  - 05 - 0 to 100 psid
  - 06 - 0 to 150 psid
  - 07 - 0 to 200 psid
  - 08 - 0 to 300 psid
  - 09 - 0 to 500 psid
  - 11 - 0 to 0.5 bar differential
  - 12 - 0 to 1 bar differential
  - 13 - 0 to 2 bar differential
  - 14 - 0 to 4 bar differential
  - 15 - 0 to 6 bar differential
  - 16 - 0 to 10 bar differential
  - 17 - 0 to 15 bar differential
  - 18 - 0 to 20 bar differential
  - 19 - 0 to 30 bar differential

- **OPTIONS**:
  - 3V - 3-way valve
  - AT - Aluminum tag
  - AT - Factory calibration certificate
  - LCD - LCD indication
  - NIST - NIST traceable calibration certificate

- **SIGNAL OUTPUT**:
  - S1 - 4 to 20 mA
  - S3 - Field selectable 0-5, 1-5, 0-10, 2-10 VDC

- **ELECTRICAL CONNECTIONS**:
  - E1 - Cable gland with 3' of prewired cable
  - E2 - Cable gland with 6' of prewired cable
  - E3 - Cable gland with 9' of prewired cable
  - E5 - 1/2" female NPT conduit
  - E9 - M-12 4-pin connector

- **PROCESS CONNECTIONS**:
  - P1 - 1/4" male NPT
  - P2 - 1/4" female NPT
  - P3 - 1/4" male BSPT
  - P4 - 1/4" female BSPT

- **ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-62X-LCD</td>
<td>Field-upgradeable LCD</td>
</tr>
<tr>
<td>A-629C-3V</td>
<td>3-way brass manifold valve</td>
</tr>
<tr>
<td>A-155</td>
<td>Cable gland with 1/2&quot; NPT male</td>
</tr>
<tr>
<td>A-228</td>
<td>12&quot; SS flex hose</td>
</tr>
<tr>
<td>BBV-18</td>
<td>Mini SS 3-valve black manifold</td>
</tr>
</tbody>
</table>

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