ZT16 High Purity Pressure Transmitter

FEATURES
- 316L Stainless steel pressure fitting
- 7 μin Ra Surface finish option
- 100% Helium leak tested
- Class 100 cleanroom packaged and double bagged
- 1.125” Surface mounting
- W and C seal types

TYPICAL USES
- High purity gas delivery systems
- Gas sticks
- Process gas analyzers

PERFORMANCE SPECIFICATIONS
- Accuracy: ±0.5% or ±1.0% of span @ 23 °C (Accuracy includes the effects of linearity, hysteresis and repeatability)
- Stability: <0.25% of span/Yr
- Durability: > 10 m cycles

ENVIRONMENTAL SPECIFICATIONS
- Operating Temperature: -20 °C to 70 °C
- Storage Temperature: -30 °C to 80 °C
- Temperature Effect: ±0.05% of span/°C for units with ±0.5% Accuracy
  ±0.10% of span/°C for units with ±1.0% Accuracy (Zero and Span) in operating temperature range

FUNCTIONAL SPECIFICATIONS
- Response Time: 1 ms
- Proof Pressure: 200% of of span
- Leakage Test: < 5 x 10^-11 atm cc/s

ELECTRICAL SPECIFICATIONS
- Supply Voltage: 21.6 - 26.4 Vdc (4 to 20 mA Version)
  10.8 - 13.2 Vdc or 21.6 - 26.4 Vdc (1-5 Vdc Version)
- Load Resistance: 500 Ω max (4 to 20 mA Version)
  10K Ω min (1-5 Vdc Version)
- Insulation Resistance: > 100M Ω at 50 Vdc
- Output: 4 to 20 mA (2 Wire) or 1-5 Vdc (3 Wire)

WETTED MATERIALS
- Pressure Sensor: CoNi Alloy
- Pressure Fitting: 316L SS
- Surface Finish: 7 μin Ra (0.18 μm Ra)
- Internal Volume: Appx 0.04 ln³ / 0.7 cm³

NON-WETTED MATERIALS
- Case Material: 304 Stainless steel

HAZARDOUS AREA CERTIFICATIONS
- Approvals: CE, UKCA, RoHS

KEY BENEFITS
- Ultra-compact size; ideal for high density mounting
- Ultraclean design & packaging
- 316L SS pressure fitting for protection against corrosion
- 100% Helium leak tested
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**ORDERING CODE**

<table>
<thead>
<tr>
<th>Example:</th>
<th>ZT16</th>
<th>5</th>
<th>SMW</th>
<th>42</th>
<th>LW</th>
<th>2</th>
<th>V/150#</th>
<th>-X1N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>ZT16</td>
<td></td>
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<tr>
<td><strong>Accuracy</strong></td>
<td>5 - ±0.50% of span</td>
<td>5</td>
<td>7 - ±1.00% of span</td>
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<tr>
<td><strong>Pressure Connection</strong></td>
<td>SMW - 1.125” Surface mount “W” Type (UC Grade)</td>
<td>SMW</td>
<td>SMC - 1.125” Surface mount “C” Type (UC Grade)</td>
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<tr>
<td><strong>Output</strong></td>
<td>42 - 4 to 20 mA (2 Wire)</td>
<td>42</td>
<td>15 - 1 - 5 Vdc (3 Wire)</td>
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<tr>
<td><strong>Electrical Termination</strong></td>
<td>LW - 5 Pin round connector w/o mating connector</td>
<td>LW</td>
<td>L2 - 5 Pin round connector w mating connector &amp; 3 foot (1 meter) cable</td>
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<tr>
<td></td>
<td>L4 - 5 Pin round connector w mating connector &amp; 6 foot (2 meter) cable</td>
<td></td>
<td>L5 - 5 Pin round connector w mating connector &amp; 9 foot (3 meter) cable</td>
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<tr>
<td><strong>Surface Finish / Cleaning Grade</strong></td>
<td>2 - UC Grade AOD/VAR 7 µin (0.18 µm) Ra &amp; cleaned with no particles ≥0.1 µm</td>
<td>2</td>
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<tr>
<td><strong>Pressure Range</strong></td>
<td>V/45#</td>
<td>(See range table for all standard ranges)</td>
<td>V/150#</td>
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<tr>
<td><strong>Options</strong></td>
<td>1N - Material Test Report/Traceability Certificate</td>
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<td>1N</td>
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**STANDARD RANGES**

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<thead>
<tr>
<th>psi</th>
<th>bar</th>
<th>mPa</th>
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<tbody>
<tr>
<td>V/45#</td>
<td>N1/3BR</td>
<td>NP1/P3MP</td>
</tr>
<tr>
<td>V/75#</td>
<td>N1/5BR</td>
<td>NP1/P5MP</td>
</tr>
<tr>
<td>V/150#</td>
<td>N1/10BR</td>
<td>NP1/1MP</td>
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<tr>
<td>45#</td>
<td>3BR</td>
<td>P3MP</td>
</tr>
<tr>
<td>75#</td>
<td>5BR</td>
<td>P5MP</td>
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<tr>
<td>150#</td>
<td>10BR</td>
<td>1MP</td>
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</table>
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CONNECTOR & WIRING

(1) 4 to 20 mA dc output (current output)

(2) 1 to 5vdc output (voltage output)
- [Connector: E] — [Lead: Green] — [Output (+)]
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DIMENSIONS Inches [mm]

ZT16 Surface Mount Type C

ZT16 Surface Mount Type W