MP402
Flush Mount Pressure Transmitter

- Flush mountable, miniature, low cost pressure sensor
- Automatic compensation for line resistance and power supply changes
- Made of corrosive resistant titanium (6AL4V) – excellent performance with most corrosive media
- Absolute or sealed reference options
- Long term stability options
- High vibrations options
- Coating options for liquids and bio-fluids (PTFE or nanostructured surface)
- Compatible with Micron’s pressure fittings and calibration adaptors

### MECHANICAL

<table>
<thead>
<tr>
<th>Standard pressure ranges</th>
<th>2</th>
<th>3.5</th>
<th>7</th>
<th>15</th>
<th>20</th>
<th>35</th>
<th>70</th>
<th>140</th>
<th>200</th>
<th>350</th>
<th>500</th>
<th>7000</th>
</tr>
</thead>
<tbody>
<tr>
<td>pressures</td>
<td>25</td>
<td>50</td>
<td>100</td>
<td>200</td>
<td>300</td>
<td>500</td>
<td>1000</td>
<td>2000</td>
<td>3000</td>
<td>5000</td>
<td>7000</td>
<td></td>
</tr>
<tr>
<td>Non-standard pressure ranges</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
<td>2.5</td>
<td>3</td>
<td>5</td>
<td>10</td>
<td>17.5</td>
<td>30</td>
<td>700</td>
<td>bar</td>
<td></td>
</tr>
<tr>
<td>pressures</td>
<td>15</td>
<td>20</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>75</td>
<td>150</td>
<td>250</td>
<td>400</td>
<td>1000</td>
<td>psi</td>
<td></td>
</tr>
</tbody>
</table>

Other possible ranges
- Consult Factory

- Over Pressure (No change out of spec.) 2 x Range
- Usable Pressure (Small change in balance) 3 x Range
- Burst Pressure 6 x Range

### PERFORMANCE

<table>
<thead>
<tr>
<th>Performance Option</th>
<th>A (STD)</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>mV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance (Zero)</td>
<td>4.00 ± 0.5</td>
<td>4.00 ± 0.3</td>
<td>4.00 ± 0.2</td>
<td>4.00 ± 0.2</td>
<td>mV/V</td>
</tr>
<tr>
<td>Full Scale Sensitivity</td>
<td>16 ± 0.5</td>
<td>16 ± 0.3</td>
<td>16 ± 0.2</td>
<td>16 ± 0.2</td>
<td>% FS (BFSL)</td>
</tr>
<tr>
<td>Static Error Band</td>
<td>± 0.5</td>
<td>± 0.25</td>
<td>± 0.25</td>
<td>± 0.25</td>
<td>% FS/°C</td>
</tr>
<tr>
<td>Thermal Balance (Zero) Shift</td>
<td>± 0.036</td>
<td>± 0.036</td>
<td>± 0.018</td>
<td>± 0.009</td>
<td>% FS/°C</td>
</tr>
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<td>Thermal Sensitivity Shift</td>
<td>± 0.036</td>
<td>± 0.036</td>
<td>± 0.018</td>
<td>± 0.009</td>
<td>% FS/°C</td>
</tr>
<tr>
<td>Long Term Stability (std)</td>
<td>&lt; ± 2</td>
<td>&lt; ± 2</td>
<td>&lt; ± 2</td>
<td>&lt; ± 2</td>
<td>% FS/yr</td>
</tr>
<tr>
<td>Long Term Stability Options</td>
<td>L1 0</td>
<td>L5</td>
<td>L2</td>
<td>L1</td>
<td>% FS/yr</td>
</tr>
</tbody>
</table>

< ± 1 | < ± 0.5 | < ± 0.2 | < ± 0.1
ENVIRONMENTAL

Storage and Operating Temperature
-20°C to + 80°C

Compensated Temperature Range (Consult factory for other ranges)
0°C to +55°C

Extended Temperature Range
-54°C to + 95°C

Acceleration (Consult factory for high vibration options)
100g’s any axis

Media Compatibility (wetted surface)
Titanium 6AL4V

ELECTRICAL

Input Constant Voltage Excited [V DC] 12-38

Maximum Voltage (for short periods) [V] 40

Input Resistance [Ω] see chart

Insulation Resistance Minimum @50 VDC [MΩ] 50

ORDERING FORMAT EXAMPLE

MP4XXX - XXXX - X  
MP4.02C - 500A - LS  

LTS < 0.50 % FS/yr

Absolute pressure
0 – 500 bar

C Performance Option

Model MP402

OUTLINE

<table>
<thead>
<tr>
<th>Unit type</th>
<th>Transducer length L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage</td>
<td>50,80 mm [2 in]</td>
</tr>
<tr>
<td>Absolute, sealed reference</td>
<td>58,42 mm [2.3 in]</td>
</tr>
</tbody>
</table>