Ultra small pressure sensor for harsh environment High Temperature

1,2 mm up to 185°C

MP-1.20-WOT-YYY-A-HT

OVERVIEW

- Outer diameter 1,2 mm
- From 2 to 7 Bar Absolute pressure sensor
- Burst pressure 7 bar
- Wide temperature range up to 185°C
- Harsh environment
- Customized solution possible
- mVolt output

APPLICATIONS

- Instrumentation (ie: Automotive, ...)
- Aerodynamic testing (ie: wind tunnel)
- Industrial process monitoring
- Pumps
- Biomedical
- Oil and gas
- ...

MODEL DEFINITION

WOT: without tube is the standard product
YYY: pressure range in psi (030, 060, 100)
A: absolute pressure measurement
HT: high temperature up to 185°C

1,2 mm up to 185°C
### Remark:

- All sensors are provided with a control sheet given pressure level versus mVolt @ 25°C under a supply voltage of 5 Volt.
- Accuracy of passive compensation 2%FS (passive compensation has to remain @ 25°C) (in option)
- Active compensation (nonstandard request – Highest accuracy but lowest acquisition frequency)

### CONTACT

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<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MP-1.20-WOT-YYY-A-HT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outer diameter</strong></td>
<td>1,2mm</td>
</tr>
<tr>
<td><strong>Pressure range¹</strong></td>
<td>0-2 bar 0-30 psi 0-4 bar 0-60 psi 0-7 bar 0-100 psi</td>
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<tr>
<td><strong>Max nominal pressure</strong></td>
<td>2 bar 4 bar 7 bar 30 psi 60 psi 100 psi</td>
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<tr>
<td><strong>Proof pressure¹</strong></td>
<td>3 * nominal</td>
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<tr>
<td><strong>Burst pressure¹</strong></td>
<td>5 * nominal</td>
</tr>
<tr>
<td><strong>Bridge resistance (R)</strong></td>
<td>6.2 kΩ typical / (5-7 kΩ)</td>
</tr>
<tr>
<td><strong>Vout span</strong></td>
<td>100 mV typical / (65-135 mV)</td>
</tr>
<tr>
<td><strong>Tmax²</strong></td>
<td>185°C</td>
</tr>
<tr>
<td><strong>Accuracy³</strong></td>
<td>0.25% @ FS</td>
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<tr>
<td><strong>Signal amplification</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td>Dry air or inert gas</td>
</tr>
</tbody>
</table>

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1 | Absolute pressure  
2 | TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax  
3 | Accuracy @25 Celsius