SERIES 2066.31XX – PRESSURE SENSOR MEGAPASCAL
LIQUID AND GAS PRESSURE MEASURING

ADVANTAGE

High endurance

Suitable for high pressure load

Approved for drinking water

High quality

Numerous versions

PRODUCT FEATURES

More than 100,000 pressure change cycles in a pressure range to 10 bar, useful life of more than 15 years

Withstands high overload and burst pressure and freezing of the measured medium

Materials with direct medium contact are certified e.g. according to KTW, WRAS, ACS, FDA etc.

Fully automatic 100 % final test and calibration

Different versions available (measuring range, output signal, supply voltage, mechanical and electrical connection)

EXAMPLES OF APPLICATION

→ HVAC technology
→ Drinking water
→ Sanitary processes
→ Heat pumps
→ Solar water heating systems
→ Regulated pumps and valves
→ Level measuring

<table>
<thead>
<tr>
<th>Medium</th>
<th>Air, water, heated water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>0-10 bar / 0-145 psi / 0-1 MPa</td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>26 bar / 377 psi / 2.6 MPa (15 min.)</td>
</tr>
<tr>
<td>Burst pressure</td>
<td>&gt; 42 bar / 609 psi / 4.2 MPa</td>
</tr>
<tr>
<td>Characteristic / Tolerance* at 5.00 V (ratiometric)</td>
<td>$U_{\text{max}} [V] = 0.276 \times \text{bar} + 0.375 [V]$ $U_{\text{nom}} [V] = 0.300 \times \text{bar} + 0.500 [V]$ $U_{\text{max}} [V] = 0.324 \times \text{bar} + 0.625 [V]$ (0.356 [V/bar] x p [bar] + 0.625 [V] after life endurance test)</td>
</tr>
<tr>
<td>Flange material</td>
<td>Grivory (KTW, WRAS, FDA, ACS, NSF61+51 certified)</td>
</tr>
<tr>
<td>Membrane material</td>
<td>EPDM (FDA, ACS, 3A Sanitary certified)</td>
</tr>
<tr>
<td>Life endurance (mechanical/electrical)</td>
<td>100,000 pressure cycles (10 bar)</td>
</tr>
<tr>
<td>Medium temperature (water)</td>
<td>+2 °C ... +90 °C</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-10 °C ... +70 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40 °C ... +90 °C</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>5 V DC (ratiometric)</td>
</tr>
<tr>
<td>Maximum power consumption</td>
<td>&lt; 14 mA (12 mA typ.)</td>
</tr>
<tr>
<td>Maximum output load</td>
<td>1 kOhm / 1 nF</td>
</tr>
<tr>
<td>Terminal*</td>
<td>Rast 2.5 / 3-pole</td>
</tr>
</tbody>
</table>

Technical changes reserved. Dimensions are not binding. Detailed specifications available on request.
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LIQUID AND GAS PRESSURE MEASURING

VARIANTS

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supply voltage</th>
<th>Electrical connection</th>
<th>Mechanical connection output signal</th>
</tr>
</thead>
</table>
| 2066.3101   | 5 V DC ± 0.25 V| Rast 2.5 / 3-pole     | Screw flange / external thread G 3/8”
|             |                |                       | \( U_{\text{nom}} [V] = 0.300 [V/bar] \times p [\text{bar}] + 0.500 [V] \) |
| 2066.3102   | 5 V DC ± 0.25 V| Rast 2.5 / 3-pole     | Plug-on flange                       |
|             |                |                       | \( U_{\text{nom}} [V] = 0.300 [V/bar] \times p [\text{bar}] + 0.500 [V] \) |

CHARACTERISTIC CURVES

PRODUCT IMAGES

DRAWINGS

(Dimensions in mm)