SPECIFICATION SHEET FOR SiH₄ SENSOR TYPE SiH₄/M-50

PERFORMANCE CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Range</td>
<td>0 – 50 ppm</td>
</tr>
<tr>
<td>Maximum Overload</td>
<td>ND</td>
</tr>
<tr>
<td>Expected Operation Life</td>
<td>2 years in air</td>
</tr>
<tr>
<td>Output Signal</td>
<td>250 ± 75 nA/ppm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.3 ppm</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-20 °C to 50 °C</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>Atmospheric ± 10%</td>
</tr>
<tr>
<td>Pressure Coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>T₀₀ Response Time</td>
<td>&lt; 60 sec</td>
</tr>
<tr>
<td>Relative Humidity Range</td>
<td>15% to 90% R.H. non-condensing</td>
</tr>
<tr>
<td>Typical Baseline Range</td>
<td>&lt; 1 ppm</td>
</tr>
<tr>
<td>Maximum Zero Shift (+20°C to +40°C)</td>
<td>ND</td>
</tr>
<tr>
<td>Expected Long Term Output Drift</td>
<td>&lt; 2% signal loss/month</td>
</tr>
<tr>
<td>Recommended Load Resistor</td>
<td>10 Ohm</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>Not recommended</td>
</tr>
<tr>
<td>Repeatability</td>
<td>&lt; 2% of signal</td>
</tr>
<tr>
<td>Output Linearity</td>
<td>Linear</td>
</tr>
</tbody>
</table>

CROSS-SENSITIVITY DATA

<table>
<thead>
<tr>
<th>Interfering Gas</th>
<th>Concentration</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>200 ppm</td>
<td>0 ppm</td>
</tr>
<tr>
<td>H₂</td>
<td>200 ppm</td>
<td>0 ppm</td>
</tr>
<tr>
<td>SO₂</td>
<td>5 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>H₂S</td>
<td>5 ppm</td>
<td>8 ppm</td>
</tr>
</tbody>
</table>

Performance data conditions:
20 °C, 50% RH and 1013 mbar

APPLICATIONS

Safety and Environmental Control

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>~ 5.6 g</td>
</tr>
<tr>
<td>Position Sensitivity</td>
<td>None</td>
</tr>
<tr>
<td>Storage Life</td>
<td>Six months in container</td>
</tr>
<tr>
<td>Recommended Storage Temperature</td>
<td>5 °C – 20 °C</td>
</tr>
<tr>
<td>Warranty Period</td>
<td>12 months from date of dispatch</td>
</tr>
</tbody>
</table>

Miniature-Size Outline Dimensions

BOTTOM VIEW

SIDE VIEW

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