7-N2H4-1 HYDRAZINE SENSOR
0-1PPM N2H4

SPECIFICATION – 7 SERIES

Operating Principle: Electrochemical, 3-electrode cell
Gas Detected: Hydrazine N2H4
Measurement Range: 0 – 1 ppm
Maximum Over-Range: 5 ppm
Resolution: < 0.01 ppm
Expected Operating Life: 24 months in air
Temperature Range: -20°C to +50°C
Humidity Range (non-condensing): 15 – 90% RH
Response Time (T90): ≤ 15 seconds
Long Term Sensitivity Drift: < 2% signal per month
Linearity at Standard Range: Linear
Sensitivity: 5 +/- 2 µA/ppm
Repeatability: < +/- 2% signal
Pressure range: 80 to 1200 mbar
Bias Potential: 0 mV
Recommended Load Resistor: 5 ~ 10 Ω
Warranty Period: 18 months from date of manufacture
Storage Life: 6 months in sealed container
Storage Temperature: 0°C to +20°C
Weight (approx): 5 g
Orientation Sensitivity: None
Part Number: 2112B21310217

Note: PCB sockets are recommended for the sensor pin connection. Soldering to the sensor should be avoided and will invalidate warranty.

All performance specifications are based upon the following environment conditions: +20°C, 50% relative humidity and 1 atm (1013 mBar or ambient pressure).
### CROSS SENSITIVITY DATA

<table>
<thead>
<tr>
<th>Gas</th>
<th>Concentration (ppm)</th>
<th>Output Signal (ppm N2H4 equivalent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia NH3</td>
<td>1.2</td>
<td>1</td>
</tr>
<tr>
<td>Carbon Dioxide CO2</td>
<td>1000</td>
<td>0</td>
</tr>
<tr>
<td>Carbon Monoxide CO</td>
<td>1</td>
<td>1.8</td>
</tr>
<tr>
<td>Methane CH4</td>
<td>1000</td>
<td>0</td>
</tr>
</tbody>
</table>

**Notes:** Calibration with cross-sensitivity gas is not recommended. The cross-sensitivity may fluctuate between +/- 30% and may differ from batch to batch and within the sensor’s lifetime. The cross-sensitivities are including but not limited to the above gases. The sensor may also respond to other gases.