PERFORMANCE

Range ............................................................... 0 - 1000 ppm
Maximum overload................................................. 2000 ppm
Sensitivity................................................. 10 - 30 nA/ppm H2
Zero in air at 20 °C........................................... <±20 ppm H2
Resolution............................................................. 10 ppm H2
Linearity ................................................... linear across range
Response time, t90....................................................... <70 s
Long-term output drift................................. <2% signal/month
Warranty .................................................................... 2 years

OPERATING CONDITIONS

Temperature range ...........................................-20 to +50 °C
Operating humidity................15 - 90% RH (non-condensing)
Pressure range ..............................90 - 110 kPa (nominal)
Operating circuit see Electrochemical Toxic Sensor Application Note

Applied potential ..............................................................0 V
Storage life........... 6 months in original packaging (0 - 25 °C)

PHYSICAL CHARACTERISTICS

Label colour ................................................................... silver
Weight.................................................................. 5 g approx.
Dimensions ........................................................... see outline

This device is designed to be RoHS compliant.

CROSS-SENSITIVITY DATA

<table>
<thead>
<tr>
<th>GAS</th>
<th>Concentration (ppm)</th>
<th>Sensor Response (As ppm H2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Monoxide</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>24</td>
<td>0</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Nitric Oxide</td>
<td>35</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Ethene</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>Chlorine</td>
<td>10</td>
<td>0</td>
</tr>
</tbody>
</table>

Important Note

Do not solder to the connector pins as this may damage the sensor and thereby invalidate the warranty.

Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.
TEMPERATURE DEPENDENCE

EC4-1000-H2 Graph of Zero vs Temperature

EC4-1000-H2 Graph of Sensitivity vs Temperature