MEMBRAPOR SPECIFICATION SHEET

H2/CA-1000
Hydrogen Gas Sensor in Compact Housing

MEASUREMENT
Operation Principle 3-Electrode Electrochemical
Nominal Range 0 – 1’000 ppm
Maximum Overload 2’000 ppm
Inboard Filter –
Output Signal 28.5 ± 11.5 nA/ppm
Resolution (Electronics dependent) < 2 ppm
T90 Response Time < 40 sec
Typical Baseline Range (pure air, 20°C) < 10 ppm
Maximum Zero Shift (+20°C to +40°C) N.D.
Repeatability < 5 % of signal
Output Linearity Linear
Gain –

ELECTRICAL
Rec. Load Resistor 10 Ohm
Bias (V_Sens-V_Ref) Not allowed
Conformity to RoHS directive RoHS Compliance

ENVIRONMENTAL
Relative Humidity Range 15 % to 90 % R.H. non-condensing
Temperature Range 0 °C to 50 °C
Pressure Range Atmospheric ± 10 %
Pressure Coefficient N.D.
Humidity Effect none

LIFETIME
Expected Operation Life 2 years in air
Expected Long Term Output Drift in air < 2% signal loss / month
Filter Life –
Storage Life 6 months in container
Rec. Storage Temperature 5 °C – 20 °C
Warranty Period 12 months from date of dispatch

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

IMPORTANT NOTE
1) CO cross sensitivity can be > 5% below 0 °C

MECHANICAL
Weight 13 g
Position Sensitivity None

APPLICATIONS
Safety and Process Control
H2 Detection in H2/CO-Mixtures
Medical Applications

CROSS-SENSITIVITY DATA
The table below does not claim to be complete. Interfering gases should not be used for calibration.

<table>
<thead>
<tr>
<th>Interfering Gas</th>
<th>Conc. ppm</th>
<th>Reading ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2S</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>CO</td>
<td>600</td>
<td>&lt; 18</td>
</tr>
<tr>
<td>Organic solvents</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

4) for temperature ≥ 20 °C
5) Disinfection solutions have to be avoided

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