



Hydrogen Gas Sensor H2/SA-1000-S

H2 Gas Sensor in Slim Housing

Applications

- · Safety and Process Control
- H2 Detection in H2/CO-Mixtures

Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 1000 ppm	
Maximum Overload	2000 ppm	
Inboard Filter	To remove CO	
Output Signal	28.5 ± 11.5 nA/ppm	
Resolution (Electronics dependent)	< 1.8 ppm	
T90 Response Time	< 40 s	
Typical Baseline Range (pure air, 20°C)	-10 ppm to 10 ppm	
Maximum Zero Shift (+20°C to +40°C)	20 ppm	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain (Only applies to 4-Electrode sensors)	-	

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Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar





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Electrical

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

Environmental

Relative Humidity Range	15 % to 90 % RH non-condensing
Temperature Range	-40 °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 per month after stabilization
Filter Life	
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

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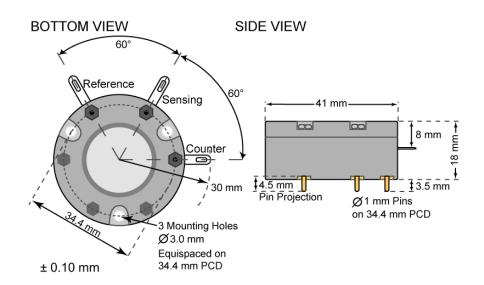
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Slim-Size Outline Dimensions



Mechanical

Weight 27 g

Orientation Any

Housing material Polycarbonate

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Cross Sensitivity Data

The table below does not claim to be complete. Interfering gases should not be used for calibration. Please contact Membrapor AG for further support regarding cross sensitivities.

Interfering Gas	Concentration [ppm]	Reading [ppm]
CO	600	< 18

Important Application Notes

- Disinfection solutions containing alcohols and other VOCs must be avoided.
- The CO cross sensitivity in the table is valid for temperatures ≥ 20°C.
- The CO cross sensitivity can be > 5% for temperatures < 0°C.

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