MEMBRAPOR Specification Sheet



Hydrogen Gas Sensor H2/S-10000-S

H2 Gas Sensor in Slim Housing

Applications

Safety and Process Control

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 10000 ppm
Maximum Overload	20000 ppm
Inboard Filter	-
Output Signal	$3 \pm 2 \text{ nA/ppm}$
Resolution (Electronics dependent)	< 16.7 ppm
T90 Response Time	< 45 s
Typical Baseline Range (pure air, 20°C)	-100 ppm to 100 ppm
Maximum Zero Shift (+20°C to +40°C)	150 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

Rev.: Apr-20

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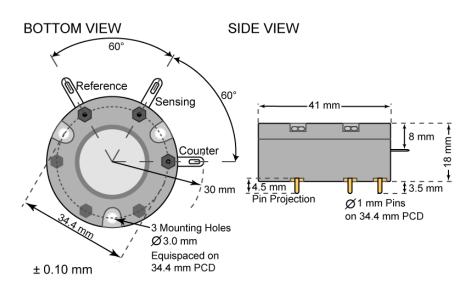
Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar





Hydrogen Gas Sensor H2/S-10000-S

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

Cross-Sens. [%]

CO

~ 60 - 80

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