# **MEMBRAPOR**

## SPECIFICATION SHEET FOR H<sub>2</sub> SENSOR TYPE H2/SA-1000

### PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 1'000 ppm	
Maximum Overload	2'000 ppm	
Expected Operation Life	2 years in air	
Output Signal	17 – 40 nA/ppm	
Resolution	2 ppm	
Temperature Range	0 °C to 45 °C 1)	
Pressure Range	Atmospheric ± 10%	
Pressure Coefficient	No data	
T <sub>90</sub> Response Time	< 50 sec	
Relative Humidity Range	15 % to 90 % R.H.	
	non-condensing	
Typical Baseline Range (pure	< 10 ppm	
air, 20°C)		
Maximum Zero Shift (+20°C	No data yet	
to +40°C)		
Long Term Output Drift	< 2% signal loss/month	
Recommended Load Resistor	10 Ohm	
Bias Voltage	Not recommended	
Repeatability	< 5 % of signal	
Output Linearity	Linear	

<sup>&</sup>lt;sup>1)</sup> CO cross sensitivity can be > 5% below 0 °C.

### **CROSS-SENSITIVITY DATA**

Interfering Gas	Concentration	Reading
CO	100 ppm	< 2 ppm <sup>2)</sup>

<sup>&</sup>lt;sup>2)</sup> for temperature ≥ 20 °C

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

## **APPLICATIONS**

H<sub>2</sub> Detection in H<sub>2</sub>/CO-Mixtures Safety and Environmental Control

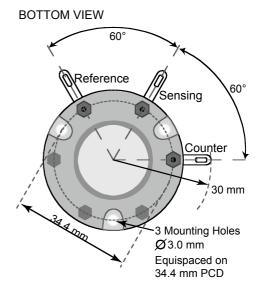
## Note:

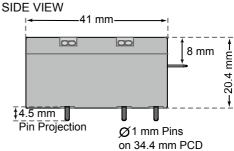
The sensor must be operated by using a suitable gas ket for gas flow exposure

## PHYSICAL CHARACTERISTICS

Weight	~ 32 g
Position Sensitivity	None
Storage Life	Six months in
	container
Recommended Storage	5 °C – 20 °C
Temperature	
Warranty Period	12 months from date
	of dispatch

#### Standard-Size Outline Dimensions





The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within it. The data is given for guidance only. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 Email: info@membrapor.ch www.membrapor.ch MEMBRAPOR AG Rautistrasse 164 CH-8048 Zürich Switzerland