



Hydrogen Sulfide Gas Sensor H2S/S-5000

H2S Gas Sensor in Standard Housing

Applications

- Discontinuous Measurement
- · Safety and Process Control

Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 5000 ppm	
Maximum Overload	10000 ppm	
Inboard Filter	-	
Output Signal	25 ± 5 nA/ppm	
Resolution (Electronics dependent)	< 2 ppm	
T90 Response Time	< 60 s	
Typical Baseline Range (pure air, 20°C)	-40 ppm to 40 ppm	
Maximum Zero Shift (+20°C to +40°C)	6 ppm	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain (Only applies to 4-Electrode sensors)	-	

Rev.: Apr-20 Page 1 of 4

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: info@membrapor.ch Website: www.membrapor.ch Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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

For further information about usage of Membrapor sensors, see application note <u>MEM1</u>. 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 from any omissions or errors herein. Customers should test under their own conditions to ensure that the sensors are suitable for their own requirements.





Membrapor AG

Birkenweg 2

Switzerland

Hydrogen Sulfide Gas Sensor H2S/S-5000

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
Filter Life	
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

Rev.: Apr-20 Page 2 of 4

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: info@membrapor.ch CH-8304 Wallisellen Website: www.membrapor.ch

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

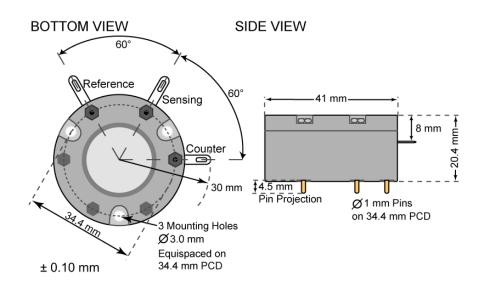
For further information about usage of Membrapor sensors, see application note MEM1. The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. Customers should test under their own conditions to ensure that the sensors are suitable for their own requirements.





Hydrogen Sulfide Gas Sensor H2S/S-5000

Standard-Size Outline Dimensions



Mechanical

Weight 32 g

Orientation Any

Housing material Polycarbonate

Rev.: Apr-20 Page 3 of 4

Phone: +41 43 311 72 00

Fax: +41 43 311 72 01

E-Mail: info@membrapor.ch

Website: www.membrapor.ch

Website: www.membrapor.ch

Switzerland

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

For further information about usage of Membrapor sensors, see application note <u>MEM1</u>. 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 from any omissions or errors herein. Customers should test under their own conditions to ensure that the sensors are suitable for their own requirements.





Hydrogen Sulfide Gas Sensor H2S/S-5000

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	500	< 10
H ₂	10000	< 12
NO	350	< 20
NO_2	50	~ -10
SO ₂	500	~ 100

Rev.: Apr-20 Page 4 of 4

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: info@membrapor.ch Website: www.membrapor.ch Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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

For further information about usage of Membrapor sensors, see application note <u>MEM1</u>. 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 from any omissions or errors herein. Customers should test under their own conditions to ensure that the sensors are suitable for their own requirements.