MEMBRAPOR Specification Sheet



Hydrogen Sulfide Gas Sensor H2S/S-50-S

H2S Gas Sensor in Slim Housing

Applications

- Discontinuous Measurement
- Safety and Environmental Control

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 50 ppm
Maximum Overload	500 ppm
Inboard Filter	-
Output Signal	1700 ± 300 nA/ppm
Resolution (Electronics dependent)	< 0.03 ppm
T90 Response Time	< 35 s
Typical Baseline Range (pure air, 20°C)	-0.1 ppm to 0.3 ppm
Maximum Zero Shift (+20°C to +40°C)	N.D.
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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<u>Electrical</u>	
Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance
<u>Environmental</u>	
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
<u>Lifetime</u>	
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

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Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

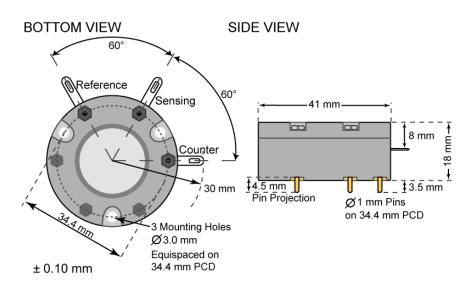
Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar





Hydrogen Sulfide Gas Sensor H2S/S-50-S

Slim-Size Outline Dimensions



Mechanical

Weight	27 g
Orientation	Any
Housing material	Polycarbonate

Rev.: Apr-20	Page 3 of 4
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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	100	< 1
H ₂	10000	< 5
HCI	20	0
NO	35	< 2
NO ₂	5	~ -1
SO ₂	50	< 8
Methyl Mercaptan (MM, CH₃SH)	10	~ 5
Tert-Butyl Mercaptan (TBM, (CH₃)₃CSH)	10	~ 3.5

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