MEMBRAPOR Specification Sheet



Sulfur Dioxide Gas Sensor SO2/SF-10000-S

SO2 Gas Sensor in Slim Housing

Applications

- Stack/ Flue Gas Monitoring
- Emission Monitoring

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 10000 ppm
Maximum Overload	20000 ppm
Inboard Filter	To remove effect from H2S and HCI
Output Signal	20 ± 5 nA/ppm
Resolution (Electronics dependent)	< 4 ppm
T90 Response Time	< 25 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)	-

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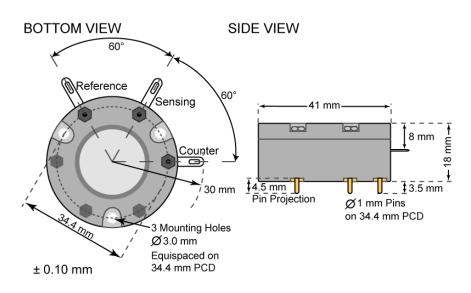
Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar





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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	Cross-Sens. [%]
C ₂ H ₄	0
СО	< 10
H ₂	< 6
H ₂ S	0
NO	0
NO ₂	~ -100

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