



Sulfur Dioxide Gas Sensor SO2/S-100-S

SO2 Gas Sensor in Slim Housing

Applications

Safety, Process and Environmental Control

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 100 ppm
Maximum Overload	500 ppm
Inboard Filter	-
Output Signal	370 ± 70 nA/ppm
Resolution (Electronics dependent)	< 0.2 ppm
T90 Response Time	< 20 s
Typical Baseline Range (pure air, 20°C)	-0.4 ppm to 0.4 ppm
Maximum Zero Shift (+20°C to +40°C)	0.5 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

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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	-20 °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

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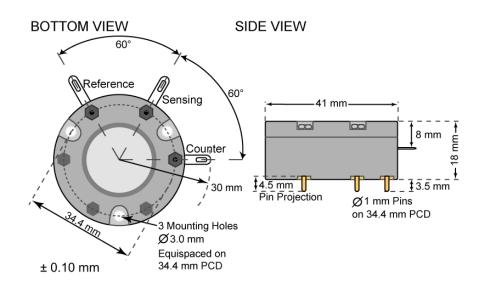
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Slim-Size Outline Dimensions



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	Concentration [ppm]	Reading [ppm]
C ₂ H ₄	100	0
CO	100	< 2.5
H_2	100	< 1
H₂S	20	~ 17
NO	100	0
NO_2	100	~ -125

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