

SPECIFICATION SHEET FOR SO₂ SENSOR TYPE SO₂/SF-400-S

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 400 ppm	
Maximum Overload	1000 ppm	
Inboard Filter	To remove H ₂ S and	
	HCI	
Expected Operation Life	2 years in air	
Output Signal	200 ± 50 nA/ppm	
Resolution	0.5 ppm	
Temperature Range	- 20 ℃ to 50 ℃	
Pressure Range	Atmospheric ± 10%	
Pressure Coefficient	No data	
T ₉₀ Response Time	< 20 sec	
Relative Humidity Range	15 % to 90 % R.H.	
	non-condensing	
Typical Baseline Range (pure air, 20℃)	-1 to +1 ppm	
Maximum Zero Shift (+20℃	3 ppm	
to +40°C)	. 2.0/ pignal	
Long Term Output Drift	< 2 % signal loss/month	
Pagammandad Load Pagistar		
Recommended Load Resistor	10 Ohm	
Bias Voltage	Not required	
Repeatability	< 2 % of signal	
Output Linearity	Linear	

CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	100 ppm	< 1 ppm
H ₂ S	20 ppm	1 ppm
NO	100 ppm	0 ppm
NO ₂	100 ppm	~ -125 ppm
H ₂	100 ppm	< 1 ppm
Ethylene	100 ppm	0 ppm
HCI	20 ppm	1 ppm

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

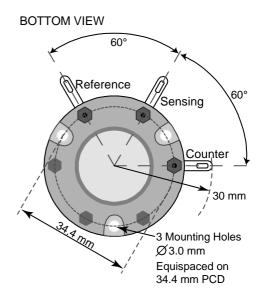
APPLICATIONS

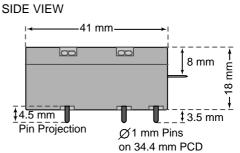
Stack/ Flue Gas Monitoring **Emission Monitoring**

PHYSICAL CHARACTERISTICS

Weight	~ 27 g
Position Sensitivity	None
Storage Life	Six months in
	container
Recommended Storage	5 ℃ – 20 ℃
Temperature	
Warranty Period	12 months from date
	of dispatch

Slim-Size Outline Dimensions





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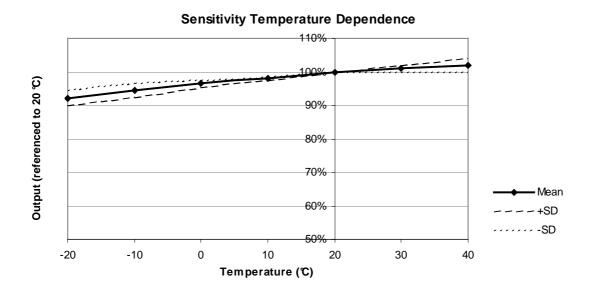
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TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for a batch of sensors, along with confidence intervals corresponding to ± 3 times the standard deviation. The sensitivity dependence is expressed as a percentage of the signal at 20 °C. The shift in bas eline is shown in ppm referenced to 20 °C.



The baseline is virtually not affected by changes in temperature.

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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