## **MEMBRAPOR** Specification Sheet



## Sulfur Dioxide Gas Sensor SO2/MF-200

SO2 Gas Sensor in Miniature Housing

#### **Applications**

- Emission Monitoring
- For Portable Gas Detectors

#### **Measurement**

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 200 ppm
Maximum Overload	600 ppm
Inboard Filter	To remove effect from H2S and HCI
Output Signal	300 ± 60 nA/ppm
Resolution (Electronics dependent)	< 0.5 ppm
T90 Response Time	< 20 s
Typical Baseline Range (pure air, 20°C)	-0.5 ppm to 0.5 ppm
Maximum Zero Shift (+20°C to +40°C)	2.3 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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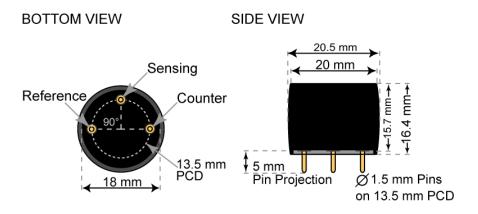
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### Sulfur Dioxide Gas Sensor SO2/MF-200

#### **Miniature-Size Outline Dimensions**



± 0.10 mm

#### **Mechanical**

Weight	5.5 g
Orientation	Any
Housing material	Polycarbonate

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## Sulfur Dioxide Gas Sensor SO2/MF-200

#### **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]
$C_2H_4$	100	0
СО	100	< 3
H <sub>2</sub>	100	< 1
$H_2S$	20	0
NO	100	0
NO <sub>2</sub>	100	~ -125

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