MEMBRAPOR Specification Sheet



Carbon Monoxide Gas Sensor CO/SF-200

CO Gas Sensor in Standard Housing

Applications

- Continuous Air Quality Monitoring
- Safety and Environmental Control

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 200 ppm
Maximum Overload	400 ppm
Inboard Filter	To remove acidic gases
Output Signal	700 ± 200 nA/ppm
Resolution (Electronics dependent)	< 0.1 ppm
T90 Response Time	< 50 s
Typical Baseline Range (pure air, 20°C)	-1.0 ppm to 2.0 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.: Jun-22

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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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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	-40 °C to 50 °C
Pressure Range	Atmospheric
Pressure Coefficient	N.D.
Humidity Effect	None

Lifetime

Expected Operation Life	3 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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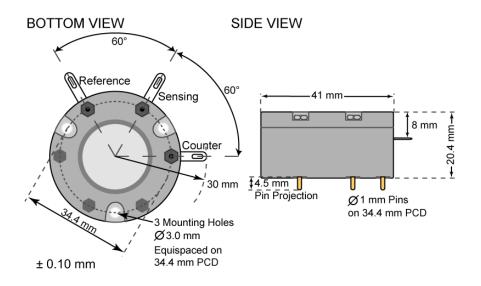
Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar





Carbon Monoxide Gas Sensor CO/SF-200

Standard-Size Outline Dimensions



Mechanical

Weight	32 g
Orientation	Any
Housing material	Polycarbonate

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Cross Sensitivity Data

The table below does not claim to be complete. We recommend using the target gas for calibration purposes. Using surrogate (interfering) gases can result in inaccuracies in the final calibration. Please contact Membrapor AG for further support regarding cross sensitivities.

Interfering Gas	Concentration [ppm]	Reading [ppm]
C_2H_4	1000	< 250
CH ₂ O	7	0
H ₂	100	< 40
H ₂ S	20	0
NH ₃	80	0
NO	50	0
NO ₂	5	0
O ₃	1	0
SO ₂	5	0

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