



Carbon Monoxide Gas Sensor CO/SGF-4E-S

CO Gas Sensor in Slim Housing

Applications

- · Stack/ Flue Gas Monitoring
- Emission Monitoring
- H2-Compensated CO Measurement

Measurement

Operation Principle	4-Electrode Electrochemical
Nominal Range	0 - 2000 ppm
Maximum Overload	4000 ppm
Inboard Filter	To remove acidic gases
Output Signal	80 ± 25 nA/ppm
Resolution (Electronics dependent)	< < 0.5 ppm
T90 Response Time	< 40 s
Typical Baseline Range (pure air, 20°C)	-10 ppm to 5 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)	-

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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 ± 10%
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	290'000 ppm hours 1)
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

¹⁾ Gas removal based on continuous exposure to 140 ppm NOx / SO2 and 5% breakthrough. Accuracy: ± 4%.

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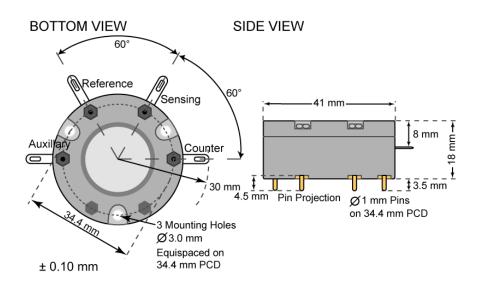
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Slim-Size Outline Dimensions



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	Cross-Sens. [%]
H_2	< 1
H ₂ S	0
NO	0
NO_2	0
SO ₂	0

Important Application Notes

- The table contains the H2 cross sensitivity after applying compensation.
- See MEM6 for detailed description of H2 compensation.

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