

Specification Sheet



Carbon Monoxide Gas Sensor CO/SF-200-4E-S

CO Gas Sensor in Slim Housing

Applications

- Continuous Air Quality Monitoring
- · Safety and Environmental Control
- H2-Compensated CO Measurement

Measurement

Operation Principle	4-Electrode Electrochemical	
Nominal Range	0 - 200 ppm	
Maximum Overload	400 ppm	
Inboard Filter	To remove acidic gases	
Output Signal	500 ± 200 nA/ppm	
Resolution (Electronics dependent)	< 0.1 ppm	
T90 Response Time	< 45 s	
Typical Baseline Range (pure air, 20°C)	-2.0 ppm to 1.0 ppm	
Maximum Zero Shift (+20°C to +40°C)	N.D. ppm	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain (Only applies to 4-Electrode sensors)	0.6 - 2.5	

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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	-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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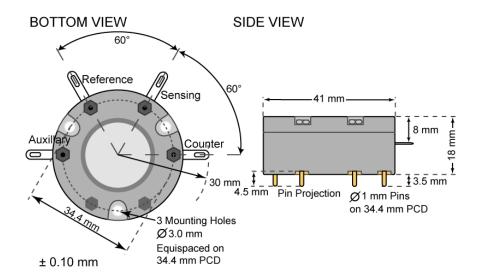


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Slim-Size Outline Dimensions



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. 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 ₂ H ₄	1000	< 250
CH ₂ O	7	0
H_2	100	<1
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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