



# Carbon Monoxide Gas Sensor CO/SF-2E

CO Gas Sensor in Standard Housing

### **Applications**

- · Continuous Air Quality Monitoring
- Safety and Environmental Control

#### Measurement

Operation Principle	2-Electrode Electrochemical
Nominal Range	0 - 1000 ppm
Maximum Overload	500 ppm
Inboard Filter	To remove acidic gases
Output Signal	100 ± 20 nA/ppm
Resolution (Electronics dependent)	< 0.5 ppm
T90 Response Time	< 50 s
Typical Baseline Range (pure air, 20°C)	-5 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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Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: info@membrapor.ch Website: www.membrapor.ch 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	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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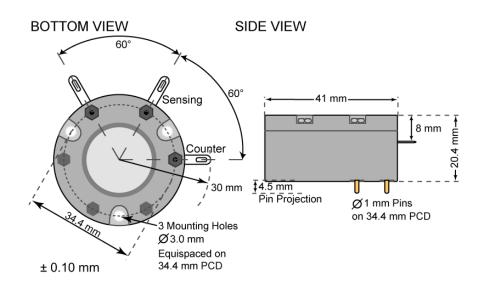
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#### Standard-Size Outline Dimensions



### **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. Interfering gases should not be used for calibration. Please contact Membrapor AG for further support regarding cross sensitivities.

Interfering Gas	Cross-Sens. [%]
Aromatic Hydrocarbons	N.D.
H <sub>2</sub>	< 60
H <sub>2</sub> S	0
NO	N.D.
NO <sub>2</sub>	N.D.
SO <sub>2</sub>	N.D.

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