





## Carbon Monoxide Gas Sensor CO/SF-500

CO Gas Sensor in Standard Housing

## **Applications**

- · Continuous Air Quality Monitoring
- Safety and Environmental Control

## **Measurement**

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 500 ppm	
Maximum Overload	1000 ppm	
Inboard Filter	To remove acidic gases	
Output Signal	250 ± 50 nA/ppm	
Resolution (Electronics dependent)	< 0.2 ppm	
T90 Response Time	< 50 s	
Typical Baseline Range (pure air, 20°C)	-1.5 ppm to 1 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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### Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar



# **Specification Sheet**



# Carbon Monoxide Gas Sensor CO/SF-500

## **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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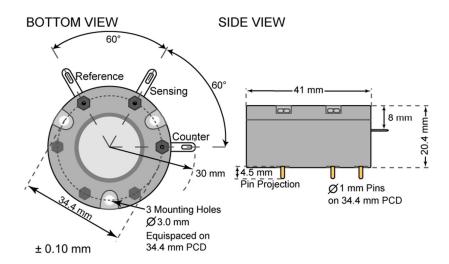
# **MEMBRAPOR**

# **Specification Sheet**



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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	Concentration [ppm]	Reading [ppm]
C <sub>2</sub> H <sub>4</sub>	100	50
CH <sub>2</sub> O	7	0
H <sub>2</sub>	100	< 40
H <sub>2</sub> S	20	0
NH <sub>3</sub>	80	0
NO	50	0
$NO_2$	5	0
O <sub>3</sub>	1	0
SO <sub>2</sub>	5	0

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