

# **Specification Sheet**



# Hydrogen Peroxide Gas Sensor H2O2/CB-500

H2O2 Gas Sensor in Compact Housing

#### **Applications**

- Discontinuous Measurement
- Sterilization Process

#### Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 500 ppm	
Maximum Overload	1000 ppm	
Inboard Filter	-	
Output Signal	300 ± 60 nA/ppm	
Resolution (Electronics dependent)	< 0.25 ppm	
T90 Response Time	< 60 s	
Typical Baseline Range (pure air, 20°C)	0 ppm to 10 ppm <sup>1)</sup>	
Maximum Zero Shift (+20°C to +40°C)	N.D.	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain (Only applies to 4-Electrode sensors)	-	

<sup>1)</sup> Fresh sensors with bias need 24 - 72 h for stabilization of the baseline.

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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)	+300 mV
Conformity to RoHS directive	RoHS Compliance

#### **Environmental**

Relative Humidity Range	15 % to 90 % RH non-condensing
Temperature Range	-20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	None

### <u>Lifetime</u>

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % signal loss per month
Filter Life	
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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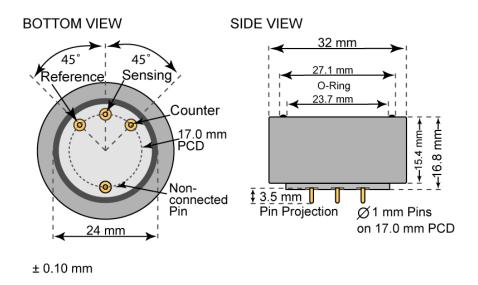


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## Hydrogen Peroxide Gas Sensor H2O2/CB-500

#### **Compact-Size Outline Dimensions**



### **Mechanical**

Weight 13 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]
SO <sub>2</sub>	20	20 ± 12

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