# **MEMBRAPOR** Specification Sheet



# Hydrogen Peroxide Gas Sensor H2O2/CB-100

H2O2 Gas Sensor in Compact Housing

## Key Features

• Highly sensitive H2O2 measurement

## **Applications**

- Discontinuous Measurement
- Sterilization Process

### **Measurement**

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 100 ppm
Maximum Overload	200 ppm
Inboard Filter	-
Output Signal	1100 ± 300 nA/ppm
Resolution (Electronics dependent)	< 0.05 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	0 ppm to 2 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)	-

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

Rev.: May-20

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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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<u>Electrical</u>	
Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	+300 mV
Conformity to RoHS directive	RoHS Compliance
<u>Environmental</u>	
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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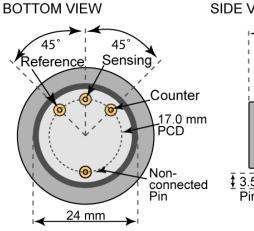
#### Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar

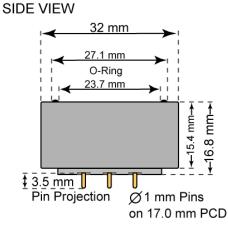




# Hydrogen Peroxide Gas Sensor H2O2/CB-100

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





± 0.10 mm

### **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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