

Specification Sheet



Hydrogen Peroxide Gas Sensor H2O2/CB-2000

H2O2 Gas Sensor in Compact Housing

Applications

- Discontinuous Measurement
- Sterilization Process
- · Disinfection monitoring

<u>Measurement</u>

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 2000 ppm
Maximum Overload	4000 ppm
Inboard Filter	-
Output Signal	50 ± 10 nA/ppm
Resolution (Electronics dependent)	< 1 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	0.0 ppm to 40.0 ppm ¹⁾
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.: Dec-21 Page 1 of 4

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



Specification Sheet



Hydrogen Peroxide Gas Sensor H2O2/CB-2000

Electrical

Rec. Load Resistor $10 - 33 \Omega$ Bias (V_Sens-V_Ref) $+50 \text{ mV}^{2}$

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
Pressure Coefficient	N.D.
Humidity Effect	None

Lifetime

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % signal loss per month
Filter Life	not applicable
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

Rev.: Dec-21 Page 2 of 4

Phone: +41 43 311 72 00 Membrapor AG
Fax: +41 43 311 72 01 Birkenweg 2
E-Mail: info@membrapor.ch
Website: www.membrapor.ch
Switzerland

Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar

²⁾ Recommended bias voltage changed in December 2021: From +300 mV to +50mV.

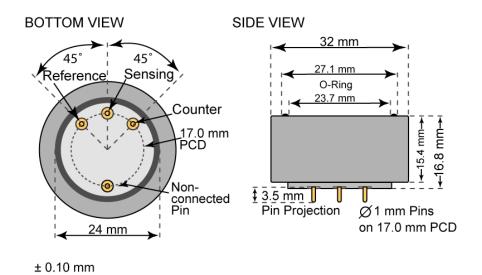


Specification Sheet



Hydrogen Peroxide Gas Sensor H2O2/CB-2000

Compact-Size Outline Dimensions



Mechanical

Weight	13 g
Orientation	Any
Housing material	Polycarbonate

Rev.: Dec-21 Page 3 of 4

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







Hydrogen Peroxide Gas Sensor H2O2/CB-2000

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	Cross-Sens. [%]
SO ₂	100

Important Notes

• The H2O2 gas phase concentration was determined with Raoult's law for a non-ideal system.

Rev.: Dec-21 Page 4 of 4

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