# **MEMBRAPOR** Specification Sheet



# Ethene, Ethylene Gas Sensor C2H4/S-200-S

C2H4 Gas Sensor in Slim Housing

### **Applications**

- Discontinuous Measurement
- Fruit Ripening

### **Measurement**

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 200 ppm
Maximum Overload	500 ppm
Inboard Filter	-
Output Signal	100 ± 30 nA/ppm
Resolution (Electronics dependent)	< 0.5 ppm
T80 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	-1 ppm to 4 ppm
Maximum Zero Shift (+20°C to +40°C)	8.8 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

Rev.: Apr-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)	not recommended
Conformity to RoHS directive	RoHS Compliance
<u>Environmental</u>	
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
<u>Lifetime</u>	
Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 5 % 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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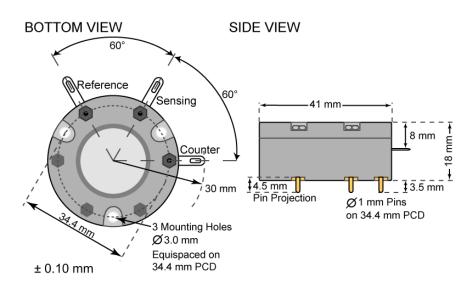
#### Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar





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#### Slim-Size Outline Dimensions



### **Mechanical**

Weight	27 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. [%]
CO	< 60
Methanol (CH₃OH)	N.D.

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