

# **Specification Sheet**



# Silane Gas Sensor SiH4/C-200

SiH4 Gas Sensor in Compact Housing

### **Applications**

- Discontinuous Measurement
- · Safety and Process Control

#### **Measurement**

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 200 ppm	
Maximum Overload	400 ppm	
Inboard Filter	-	
Output Signal	300 ± 100 nA/ppm	
Resolution (Electronics dependent)	< 0.5 ppm	
T90 Response Time	< 60 s	
Typical Baseline Range (pure air, 20°C)	-2 ppm to 2 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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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

For further information about usage of Membrapor sensors, see application note <u>MEM1</u>. The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. Customers should test under their own conditions to ensure that the sensors are suitable for their own requirements.



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## **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	-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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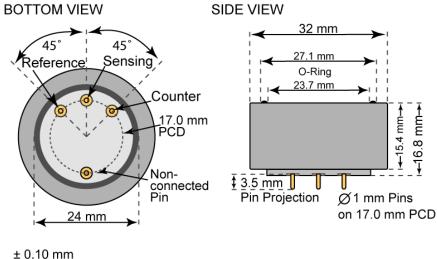


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#### **Compact-Size Outline Dimensions**



## **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]
CO	200	0
H <sub>2</sub>	300	0
H <sub>2</sub> S	5	8
PH <sub>3</sub>	2	2
$SO_2$	5	1

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