

Specification Sheet



Alcohols Gas Sensor Alc/C-1000

R3COH Gas Sensor in Compact Housing

Applications

- · Continuous Air Quality Monitoring
- Safety and Process Control

Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 1000 ppm	
Maximum Overload	2000 ppm	
Inboard Filter	-	
Output Signal	Methanol: 120 ± 20 nA/ppm	
	Ethanol: 100 ± 20 nA/ppm	
Resolution (Electronics dependent)	< 0.5 ppm	
T90 Response Time	< 60 s	
Typical Baseline Range (pure air, 20°C)	4.0 ppm to 20.0 ppm ¹⁾	
Maximum Zero Shift (+20°C to +40°C)	50 ppm	
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.

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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 $10 - 33 \Omega$ 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	-40 °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

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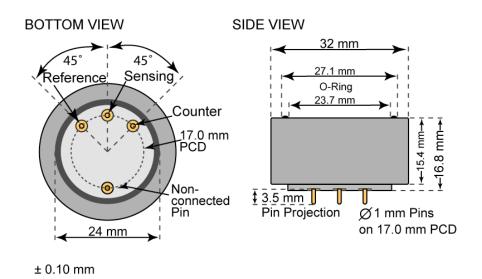






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Compact-Size Outline Dimensions



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. 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	Concentration [ppm]	Reading [ppm]
CO	80	90
Isobutylene (IBE, C ₄ H ₈)	20	37

Important Notes

• Exposure to any volatile organic compounds (VOCs) such as dichloromethane (DCM) and methyl ethyl ketone (MEK), that can dissolve the polycarbonate housing, should be avoided.

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