





Birkenweg 2

Switzerland

Alcohols Gas Sensor Alc/M-200

R3COH Gas Sensor in Miniature Housing

Applications

- · Continuous Air Quality Monitoring
- Safety and Process Control

Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 200 ppm	
Maximum Overload	400 ppm	
Inboard Filter	-	
Output Signal	Methanol: 1100 ± 400 nA/ppm	
	Ethanol: 1000 ± 400 nA/ppm	
Resolution (Electronics dependent)	< 0.05 ppm	
T90 Response Time	< 30 s	
Typical Baseline Range (pure air, 20°C)	0.5 ppm to 2.5 ppm ¹⁾	
Maximum Zero Shift (+20°C to +40°C)	6 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.

Rev.: Apr-20 Page 1 of 4

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

For further information about usage of Membrapor sensors, see application note MEM1. 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)	+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 ± 10%
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	
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

Rev.: Apr-20 Page 2 of 4

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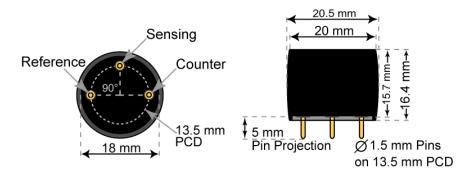




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Miniature-Size Outline Dimensions

BOTTOM VIEW SIDE VIEW



± 0.10 mm

Mechanical

Weight 5.5 g

Orientation Any

Housing material Polycarbonate

Rev.: Apr-20 Page 3 of 4

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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	100	60
Unsaturated Hydrocarbons		N.D.

Rev.: Apr-20 Page 4 of 4

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