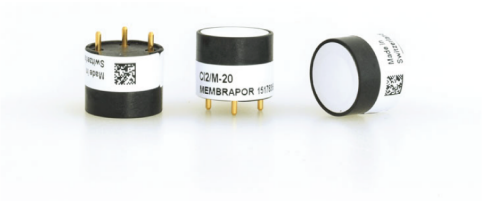
MEMBRAPOR

Specification Sheet



AlcM-200

Alcohol Gas Sensor in Miniature Housing

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 200 ppm
Maximum Overload	400 ppm
Inboard Filter	-
Output Signal with	
Ethanol	1000 ± 400 nA/ppm
Methanol	1100 ± 400 nA/ppm
Resolution (Electronics dependent)	< 0.2 ppm
T90 Response Time (Ethanol)	< 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)	N.D.
Repeatibility	< 2 % of signal
Output Linearity	Linear
Gain	-

Electrical

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	+300 mV
Conformity to RoHS directive	RoHS Compliance

Environmental

Relative Humidity Range	15 % to 90 % R.H. non-condensing
Temperature Range	-40 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	None

1 **Important Note**: Fresh sensors with bias need 24-72 h for stabilization of the baseline.

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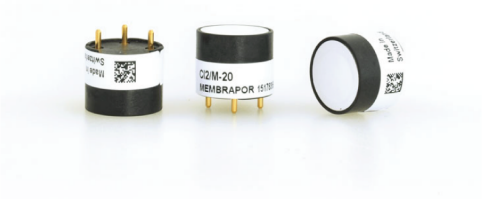
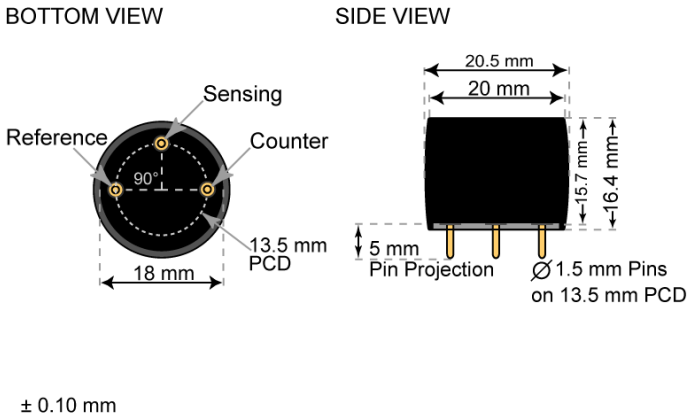


Miniature-Size Outline Dimensions



± 0.10 mm

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

Mechanical

Weight	5.5 g
Position Sensitivity	None

Applications

Continuous Air Quality Monitoring
Safety and Process Control

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 sensitivites.

Interfering Gas	Concentration [ppm]	Reading [ppm]
CO	100	60
Unsaturated Hydrocarbons		

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