

Specification Sheet



Acetic Acid Gas Sensor Acid/C-100

RCOOH Gas Sensor in Compact Housing

Key Features

Selective Measurement of Organic Acids

Applications

- · Safety and Process Control
- · Continuous Air Quality Monitoring

<u>Measurement</u>

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 100 ppm	
Maximum Overload	200 ppm	
Inboard Filter	-	
Output Signal	Formic Acid: - 90 ± 60 nA/ppm	
	Acetic Acid: - 70 ± 40 nA/ppm	
Resolution (Electronics dependent)	< 1 ppm	
T90 Response Time	< 60 s	
Typical Baseline Range (pure air, 20°C)	-2 ppm to 1 ppm	
Maximum Zero Shift (+20°C to +40°C)	0.2 ppm	
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 allowed
Conformity to RoHS directive	RoHS Compliance

Environmental

Relative Humidity Range	15 % to 90 % RH non-condensing	
Temperature Range	-10 °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

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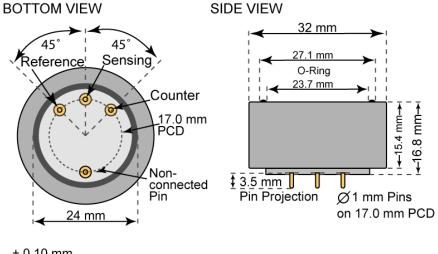


Birkenweg 2

Switzerland

Acetic Acid Gas Sensor Acid/C-100

Compact-Size Outline Dimensions



± 0.10 mm

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]
Cl_2	20	150
Methanol (CH₃OH)	150	0
NH ₃	80	-12
NO_2	5	30
O ₃	1	5
SO ₂	5	> -25

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