MEMBRAPOR Specification Sheet



Carbon Monoxide Gas Sensor CO/MF-2E

CO Gas Sensor in Miniature Housing

Applications

- Safety and Environmental Control
- For Portable Gas Detectors

Measurement

Operation Principle	2-Electrode Electrochemical
Nominal Range	0 - 300 ppm
Maximum Overload	600 ppm
Inboard Filter	To remove acidic gases
Output Signal	50 ± 15 nA/ppm
Resolution (Electronics dependent)	< 2 ppm
T90 Response Time	< 35 s
Typical Baseline Range (pure air, 20°C)	-3 ppm to 3 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)	-

Rev.: Apr-20

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: <u>info@membrapor.ch</u> Website: <u>www.membrapor.ch</u> Page 1 of 4

Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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

MEMBRAPOR Specification Sheet



Carbon Monoxide Gas Sensor CO/MF-2E

<u>Electrical</u>	
Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance
<u>Environmental</u>	
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
<u>Lifetime</u>	
Expected Operation Life	3 years in air
Expected Long Term Output Drift in air	< 2 % signal loss per month
Filter Life	N.D.
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

Rev.: Apr-20

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: <u>info@membrapor.ch</u> Website: <u>www.membrapor.ch</u> Page 2 of 4

Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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



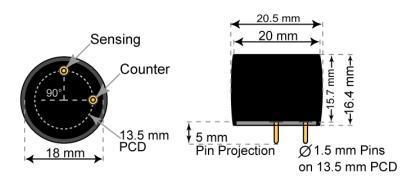


Carbon Monoxide Gas Sensor CO/MF-2E

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
Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: <u>info@membrapor.ch</u> Website: <u>www.membrapor.ch</u>	Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland
Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar	





Carbon Monoxide Gas Sensor CO/MF-2E

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	Cross-Sens. [%]
H ₂	< 60
H ₂ S	0
NO	0
NO ₂	0
Organic solvents	N.D.
SO ₂	N.D.

Rev.: Apr-20

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: <u>info@membrapor.ch</u> Website: <u>www.membrapor.ch</u> Page 4 of 4

Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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