

Specification Sheet



Carbon Monoxide Gas Sensor CO/CFA-500

CO Gas Sensor in Compact Housing

Applications

- CO Detection in CO/H2-Mixtures
- Emission / Flue Gas Monitoring

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 500 ppm
Maximum Overload	1000 ppm
Inboard Filter	To remove acidic gases
Output Signal	160 ± 30 nA/ppm
Resolution (Electronics dependent)	< 0.3 ppm
T90 Response Time	< 35 s
Typical Baseline Range (pure air, 20°C)	-6 ppm to 2 ppm
Maximum Zero Shift (+20°C to +40°C)	7 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

Rev.: Apr-20 Page 1 of 4

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.



Specification Sheet



Carbon Monoxide Gas Sensor CO/CFA-500

Electrical

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
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

<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 Page 2 of 4

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.



Specification Sheet



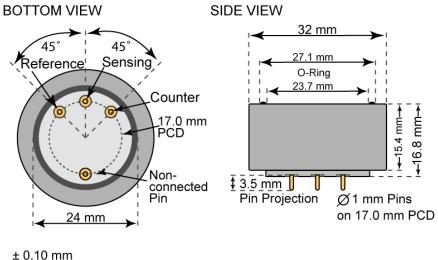
Membrapor AG

Birkenweg 2

Switzerland

Carbon Monoxide Gas Sensor CO/CFA-500

Compact-Size Outline Dimensions



Mechanical

Weight 13 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: info@membrapor.ch CH-8304 Wallisellen Website: www.membrapor.ch

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.







Carbon Monoxide Gas Sensor CO/CFA-500

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	< 15
H ₂ S	0
NO	0
NO_2	0
SO ₂	0

Rev.: Apr-20 Page 4 of 4

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.