

# MEMBRAPOR SPECIFICATION SHEET

## CH2O/S-10



### Formaldehyde Gas Sensor in Standard Housing

#### MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 10 ppm
Maximum Overload	50 ppm
Inboard Filter	–
Output Signal	4600 ± 1200 nA/ppm
Resolution (Electronics dependent)	< 0.1 ppm
T50 Response Time	< 40 sec
Typical Baseline Range (pure air, 20°C)	-0.1 ppm to 0.02 ppm
Maximum Zero Shift (+20°C to +40°C)	0.25 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain	–

#### ELECTRICAL

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

#### ENVIRONMENTAL

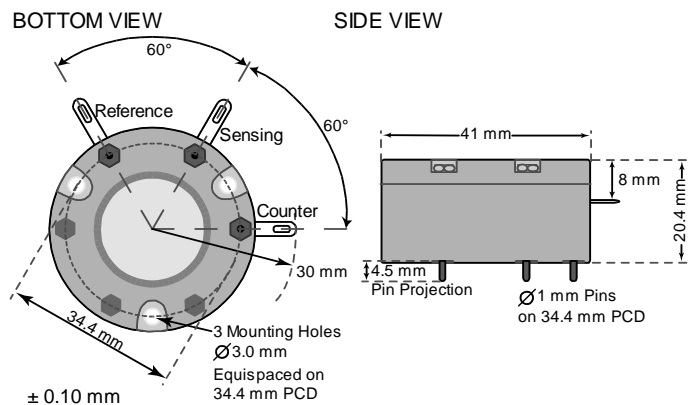
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Temperature Range	-20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	Abrupt changes in humidity

#### LIFETIME

Expected Operation Life	3 years in air
Expected Long Term Output Drift in air	< 2 % 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

Performance data conditions: 20 °C, 50% RH, 1013 mbar

#### Standard-Size Outline Dimensions



#### MECHANICAL

Weight	32 g
Position Sensitivity	None

#### APPLICATIONS

Continuous Air Quality Monitoring  
Safety and Environmental Control

#### CROSS-SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Cross-Sens. %
H <sub>2</sub>	1 % - 3 %
CO	10 % - 18 %
Organic solvents	

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Phone: +41 43 311 72 00  
Fax: +41 43 311 72 01  
Email: info@membrapor.ch  
www.membrapor.ch

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MEMBRAPOR AG  
Birkenweg 2  
CH-8304 Wallisellen  
Switzerland

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