MEMBRAPOR

SPECIFICATION SHEET FOR H₂S SENSOR TYPE H2S/S-50

PERFORMANCE CHARACTERISTICS

Nominal Range $0-50 \text{ ppm}$ Maximum Overload500 ppmExpected Operation Life2 years in airOutput Signal $1700 \pm 300 \text{ nA/ppm}$ Resolution $0,05 \text{ ppm}$ Temperature Range $-40 \ ^{\circ}\text{C}$ to $50 \ ^{\circ}\text{C}$ Pressure RangeAtmospheric $^{1)}$ Pressure CoefficientNo dataT $_{90}$ Response Time< 60 secRelative Humidity Range15 % to 90 % R.H. non-condensingTypical Baseline Range (pure air, 20°C)< 0,3 ppmMaximum Zero Shift (+20^{\circ}\text{C})0,1 ppmExpected Long Term Output Drift< 2 % signal loss/month			
Expected Operation Life2 years in airOutput Signal $1700 \pm 300 \text{ nA/ppm}$ Resolution $0,05 \text{ ppm}$ Temperature Range $-40 \degree C$ to $50 \degree C$ Pressure RangeAtmospheric ¹⁾ Pressure CoefficientNo dataT ₉₀ Response Time< 60 sec	Nominal Range	0 – 50 ppm	
Output Signal $1700 \pm 300 \text{ nA/ppm}$ Resolution $0,05 \text{ ppm}$ Temperature Range $-40 \degree \text{C}$ to $50 \degree \text{C}$ Pressure RangeAtmospheric 1)Pressure CoefficientNo data T_{90} Response Time< 60 sec	Maximum Overload	500 ppm	
Resolution0,05 ppmTemperature Range- 40 °C to 50 °CPressure RangeAtmospheric 1)Pressure CoefficientNo dataT ₉₀ Response Time< 60 sec	Expected Operation Life	2 years in air	
Temperature Range- 40 °C to 50 °CPressure RangeAtmospheric 1)Pressure CoefficientNo dataT ₉₀ Response Time< 60 sec	Output Signal	1700 ± 300 nA/ppm	
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Pressure CoefficientNo data T_{90} Response Time< 60 sec	Temperature Range		
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Relative Humidity Range15 % to 90 % R.H. non-condensingTypical Baseline Range (pure air, 20°C)< 0,3 ppm	Pressure Coefficient	No data	
Typical Baseline Range (pure air, 20°C)non-condensingMaximum Zero Shift (+20°C to +40°C)0,1 ppmExpected Long Term Output< 2 % signal	T ₉₀ Response Time	< 60 sec	
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	to +40°C)		
Drift loss/month		•	
	Drift	loss/month	
Recommended Load Resistor 10 Ohm	Recommended Load Resistor	10 Ohm	
Bias Voltage Not recommended	Bias Voltage	Not recommended	
Repeatability < 2 % of signal	Repeatability	< 2 % of signal	
Output Linear Linear	Output Linearity	Linear	

CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	100 ppm	< 2 ppm
SO ₂	50 ppm	< 8 ppm
NO	35 ppm	< 2 ppm
NO ₂	5 ppm	~ - 1 ppm
HCI	20 ppm	0 ppm
H ₂		< 1 ppm

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

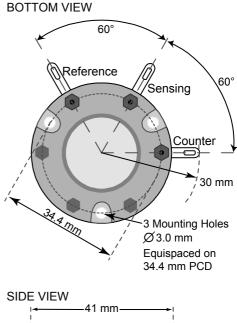
APPLICATIONS

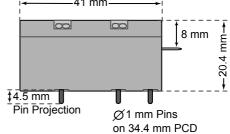
Continuous Air Quality Monitoring Safety and Environmental Control

PHYSICAL CHARACTERISTICS

Weight	~ 32 g
Position Sensitivity	None
Storage Life	Six months in
	container
Recommended Storage	5 °C – 20 °C
Temperature	
Warranty Period	12 months from date
	of dispatch

Standard-Size Outline Dimensions





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 the information contained within it. The data is given for guidance only. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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Page 1 of 1

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