SPECIFICATION SHEET FOR OXYGEN SENSOR TYPE O2/M-100

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 30%
Maximum Overload	100%
Expected Operation Life (1)	3 years in air
Output Signal	1.6 to 2.6 mA in air
Sensitivity	100 ± 24 μA / %
Resolution	0.05%
t ₉₀ Response Time	< 10 sec
Temperature Range	- 40 °C to + 50 °C
Temperature Coefficient	0.3% signal / °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
Relative Humidity Range	15% to 90% R.H. non-
	condensing
Baseline in pure Nitrogen	0.1% equivalent
Expected Long Term Output	< 2% signal loss/month
Drift	
Recommended Load Resistor	10 Ohm
Bias Voltage	-600 mV
Repeatability	< 2% of signal
Output Linearity	Linear

⁽¹⁾ The lifetime is **not** limited by the consumption of internal components

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

Further information can be found in the document *MEM2 Application Note Oxygen Sensor*.

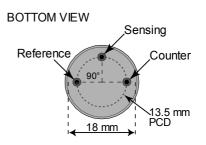
APPLICATIONS

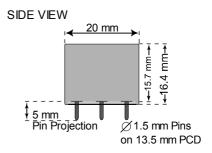
Safety and Environmental Control For Portable Gas Detectors

PHYSICAL CHARACTERISTICS

Weight	~ 5.4 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
Conformity to RoHS directive	RoHS compliance

Miniature-Size Outline Dimensions





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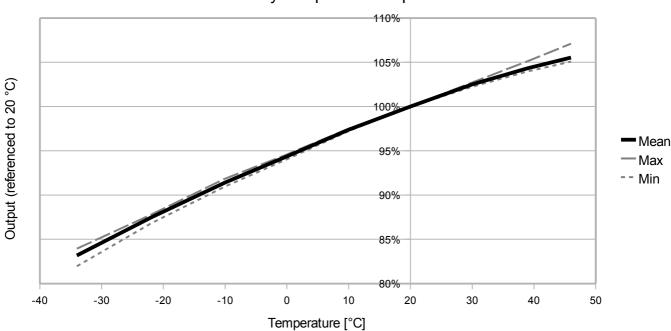
www.memburapar自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.cos witzerland

SPECIFICATION SHEET FOR OXYGEN SENSOR TYPE O2/M-100

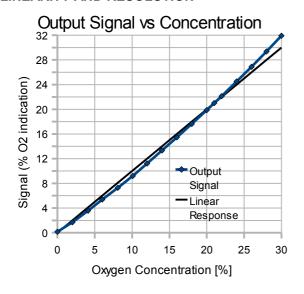
TEMPERATURE DEPENDENCE

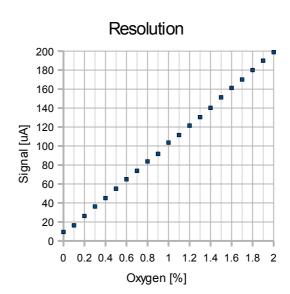
The output of an electrochemical sensor varies with temperature. The graph below shows the variation in output with temperature for this type of sensor. The result is shown in the graph as a mean for a batch of sensors, along with observed extreme values. The sensitivity dependence is expressed as a percentage of the signal at 20 °C.

Sensitivity Temperature Dependence



LINEARITY AND RESOLUTION





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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