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*Intermediate thread: Metric / Unified Extra Fine

Oxygen Sensor OOA101-1

Use the advantages:

- PTB-A 18.10 approved
- Meet BAR 97 requirements
- Certified quality management system
- Accurate and reliable response
- Excellent selectivity against CO₂
- Excellent signal stability
- High product quality
- Short delivery times
- Technical support
- Made in Germany
- 15 months warranty

"We keep your devices operating at their best."

EnviteC has been developing and manufacturing highly specialized products for medical applications and innovative products within the gas measurement technology for environmental, industrial and safety applcations.

The company trusts in the quality of advanced production methods and processes. The result are oxygen sensors for automotive emission gas analysers, which share the same extraordinary quality, excellent signal stability and reliable response for accurate readings. These sensors for measuring the partial pressure of oxygen are designed to meet the BAR standards and have been approved according to PTB-A 18.10.

EnviteC's research and development activities are consistently aligned to customer and market needs – identification and optimization of sustainable product solutions are the main concerns of the company.

From standard sensors to customized sensors

Experienced EnviteC engineers analyze customer requirements. This input is used for different standard and OEM applications, and ongoing support is provided right up to the final integraton in the solution. EnviteC designs customized sensors characterized by a maximum possible degree of precision.

For more information please contact us!

We look forward to assisting you either on the phone or in a personal talk.

Mechanical drawing (All dimensions in mm)







Technical Specifications OOA101-1

Measurement range	0 % 100 % oxygen (at atmospheric pressure)
Nominal sensor lifetime	≥ 500 000 % volume oxygen hours
Output in ambient air	7 mV 13 mV
Electrical interface	3.5 mm mono phone Jack
Accuracy	0 % 3.3 % oxygen: ± 0.1 % absolute
	3.4 % 100 % oxygen: ± 3 % relative
Linearity error	< 3 % relative
Response time	< 5 s to 90 % of final value; < 40 s fall time from 20.95 % to 0.1 % oxygen
	(when 100 % nitrogen applied)
Zero offset voltage	< 40 µV in 100 % nitrogen
Cross interference	< 0.1 % oxygen response to:
	15 % CO_2 balance N_2 ; 10 % CO balance N_2 ; 3000 ppm NO balance N_2 ;
	3000 ppm $ m C_3H_8$ balance $ m N_2$; 500 ppm $ m H_2S$ balance $ m N_2$; 500 ppm $ m SO_2$ balan
	ce N_2 ; 1000 ppm benzene balance N_2
Influence of humidity	-0.03 % rel. per % RH at 25 °C
Pressure range	0.6 bar 2 bar (ppO ₂ 0 1250 mbar O ₂)
Influence of pressure	proportional to change in oxygen partial pressure
Influence of mechanical shock	< 1 % relative after a fall from 1 m
Operating temperature	0 °C +50 °C
Temperature compensation	built-in NTC compensation
Effect of temperature compensation	between +25 °C and +40 °C: 3 % relative error
(steady state)	between 0 °C and +50 °C: 8 % relative error
Operating humidity	0 % 99 % RH non-condensing
Long term output drift	< 1 % volume oxygen per month
	typically < -15 % relative over lifetime
Storage temperature	-20 °C +50 °C
Recommended storage	+5 °C +15 °C
Recommended load	≥ 10 kOhm
Warm-up time	< 30 minutes, after replacement of sensor
Weight	approximately 28 grams
Part number	01-00-0031

All specifications are applicable at standard conditions: 1013 hPa, 25 °C dry ambient air



Certified Quality Management

EnviteC is maintaining a quality management system, which meets the requirements of EN ISO 13485 for medical devices.



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