

OBL Sensor Specification

Type: OOA101-V

Änderungsregister / Change log

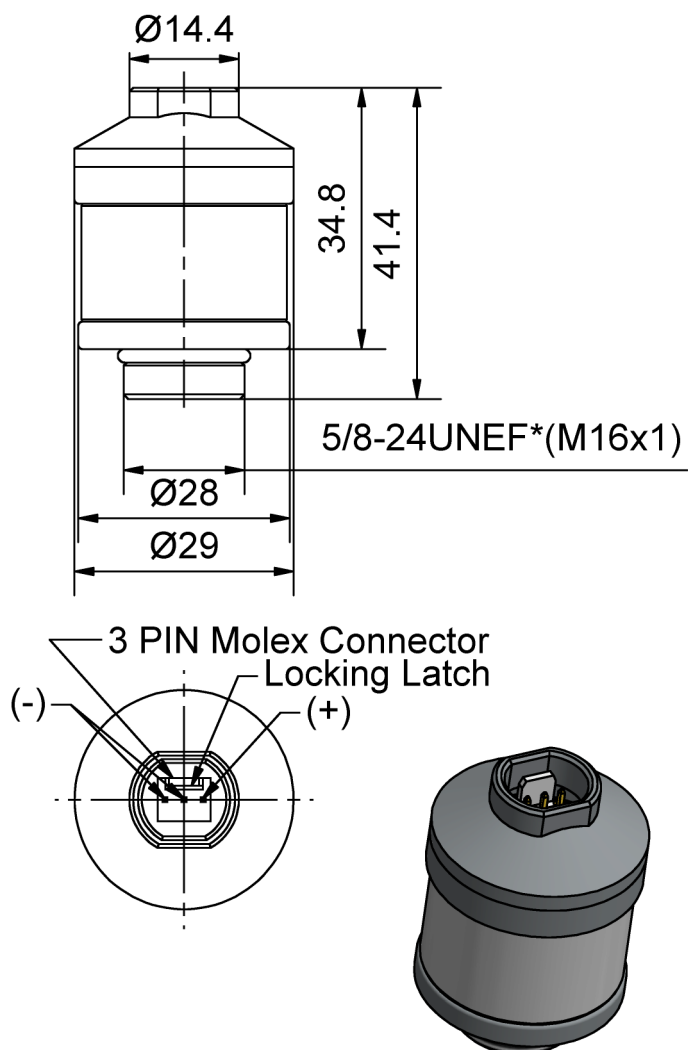
Revision	Date	Author	Description
0	11/10/2017	Maik Lingies	Created
1	11/26/2018	Maik Lingies	Sensor Type OOA101-V: 1002496 (REF 0110365 / R-22AVG) added

Measurement Range:	0 % ... 100 % oxygen (at atmospheric pressure)
Output in Ambient Air:	9 to 13 mV
Electrical Interface:	3 pin (Molex 22-11-1031)
Repeatability:	< 1% vol. O ₂ @ constant temperature and pressure
Linearity error:	< 3% relative
Accuracy:	0 % ... 3.3 % oxygen: ± 0.1 % absolute 3.4 % ... 100 % oxygen: ± 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 C ₃ H ₈ balance N ₂ ; 500 ppm H ₂ S balance N ₂ ; 500 ppm SO ₂ balance 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 Mechanical Shock:	< 1% relative after a fall from 1m
Operating Temperature:	0 °C to 50 °C
Temperature Compensation:	Built-in NTC compensation
Effect of Temperature Compensation (steady state):	between +25 °C and +40 °C: 3 % relative error between 0 °C and +50 °C: 8 % relative error
Operating Humidity:	0 - 99% RH non-condensing
Long Term Output Drift:	< 1% vol. oxygen per month
	Typically < -15% relative over lifetime
Storage Temperature:	-20 °C to +50 °C
Recommended Storage:	+5 °C to +15 °C
Recommended Load:	≥10 kOhms
Warm-Up Time:	< 30 minutes, after replacement of sensor
Nominal Sensor Lifetime:	≥500,000% vol oxygen hours
Weight:	Approximately 28 grams
Warranty Period:	15 months (including 3-month shelf life)
Confirmations:	PTB-A 18.10 approved
	Meet BAR 97 requirements
Part No.:	OOA101-V: 1002496 (REF 0110182 / R-22AVG)
	OOA101-V: 1002496 (REF 0110365 / R-22AVG)

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

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Mechanical draft:



General tolerances ISO 2768-c
Color of housing parts: RAL 7040

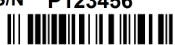
Product Specification
Oxygen Sensor
OOA101-V

ENVITEC
by Honeywell

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Customized Design Specification:

Product Labeling

OOA101-V: 1002496 (REF 0110182 / R-22AVG)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 VIAMED 15 Station Road • Cross Hills • Keighley West Yorkshire • BD20 7DT • United Kingdom     2017-11 S/N V123456 	 VIAMED 15 Station Road • Cross Hills • Keighley West Yorkshire • BD20 7DT • United Kingdom Tel: +44 (0)1535 634542 Email: info@viamed.co.uk Website: www.viamed.co.uk R-22AVG Oxygen Sensor  2017-11 S/N V123456     Depending on the ambient conditions the sensor may require up to 30 minutes to reach signal stability after installation. The sensor contains caustic liquid. In case of leakage avoid contact with eyes and skin! Recommended storage temperature: 5°C - 15°C!
OOA101-V: 1002496 (REF 0110365 / R-22AVG)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 PROSOL UK www.prosol.co.uk     2018-11 S/N P123456 	 PROSOL UK www.prosol.co.uk Compatible to: R-22A, R-22AV, R-22AH, AO2, OOA101 Also SUN P/N 7096E4060-31 GOC5223 Oxygen Sensor  2018-11 S/N P123456     Depending on the ambient conditions the sensor may require up to 30 minutes to reach signal stability after installation. The sensor contains caustic liquid. In case of leakage avoid contact with eyes and skin! Recommended storage temperature: 5°C - 15°C!

Customer Approval

Date:

Signature: