

OBL Sensor Specification

Type: OOA101-1V

Änderungsregister / Change log

Revision	Date	Author	Description
0	11/10/2017	Maik Lingies	Created
1	11/26/2018	Maik Lingies	Sensor Type OOA101-1V: 1002499 (REF 0110364 / R-17AVG) added

**Product Specification
Oxygen Sensor
OOA101-1V**

ENVITEC
by Honeywell

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Measurement Range:	0 % ... 100 % oxygen (at atmospheric pressure)
Output in Ambient Air:	9 to 13 mV
Electrical Interface:	3.5 mm mono phone Jack
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.:	OOA101-1V: 1002499 (REF 0110177 / R-17AVG) OOA101-1V: 1002499 (REF 0110364 / R-17AVG)

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

Product Specification

Oxygen Sensor

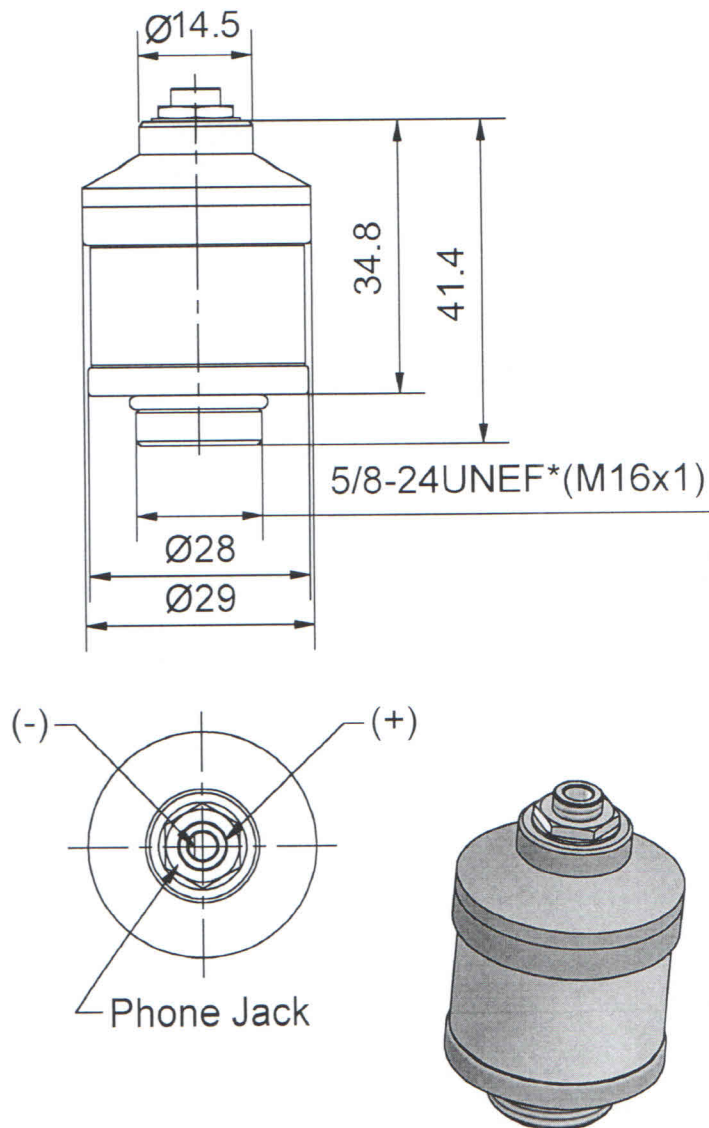
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Mechanical draft:



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

Product Specification

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Customized Design Specification:

Product Labeling

OOA101-1V: 1002499 (REF 0110177 / R-17AVG)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
VIAMED R-17AVG Oxygen Sensor 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-17AVG 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!
OOA101-1V: 1002499 (REF 0110364 / R-17AVG)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
PROSOL GOC5230 Oxygen Sensor www.prosol.co.uk 2018-11 S/N P123456	PROSOL Compatible to: R-17A, R-17AV, R-17AH, AO3, OOA101-1 GOC5230 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: 26th November 2018

Signature:

