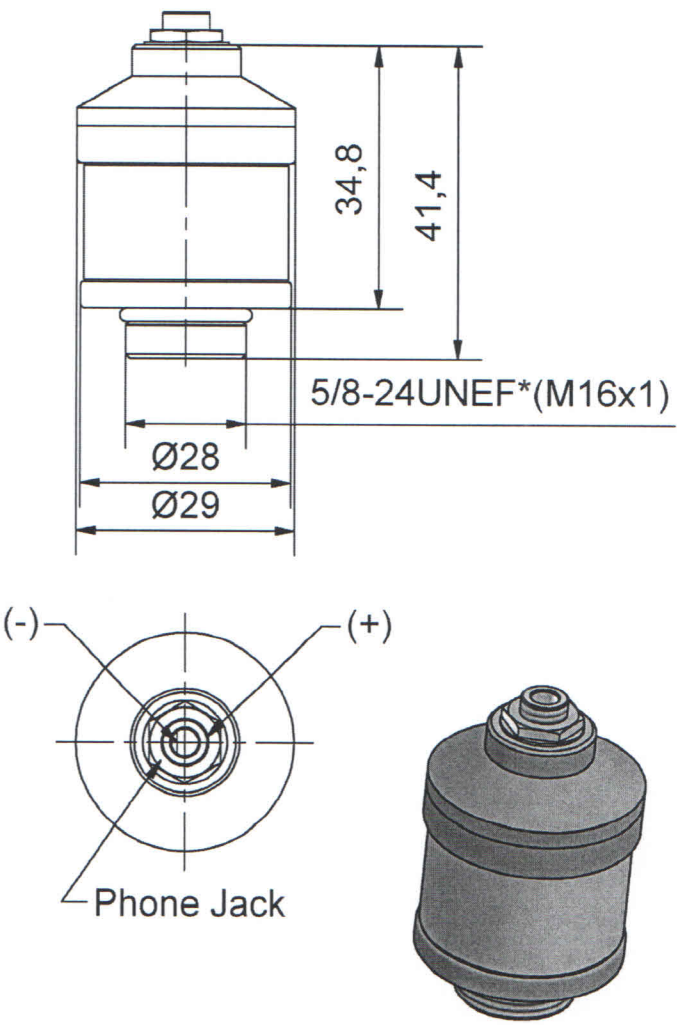
Product Specification
Oxygen Sensor
OOA101-1V
Confidential - For Viamed only!

ENVITEC
by Honeywell

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_3H_8 balance N_2; 500 ppm H_2S 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)

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

Mechanical draft:



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

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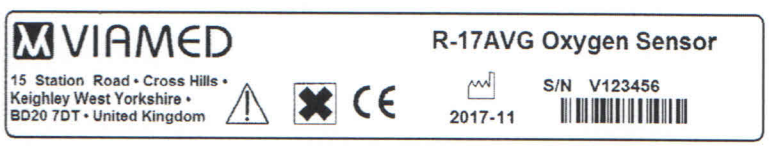
Customized Design Specification:

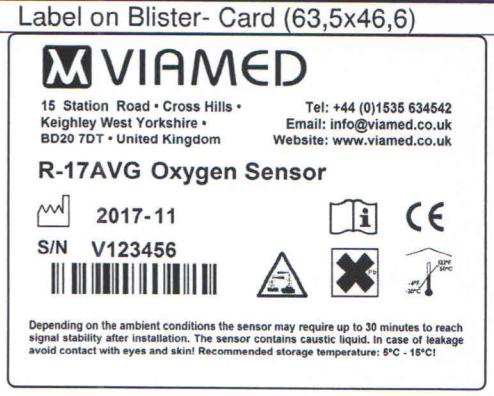
Product Labeling

OOA101-1V: 1002499 (REF 0110177 / R-17AVG)

Label on Sensor (90x15)



Label on Blister- Card (63,5x46,6)



Customer Approval

Date: 23rd November 2017

Signature: