

OBL Sensor Specification

Type: OOI101-1

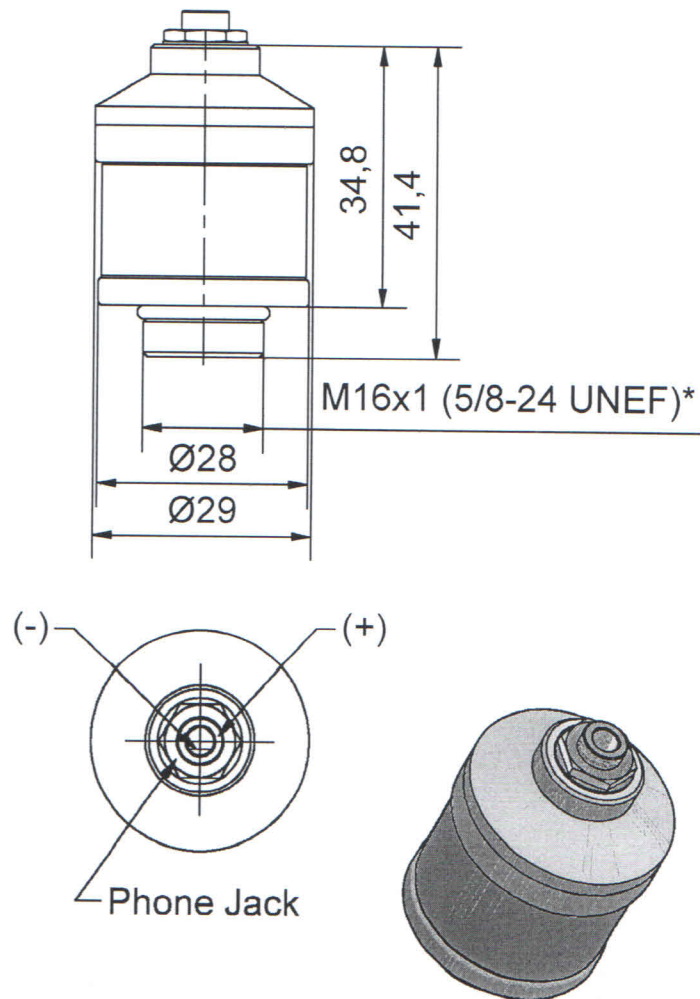
Änderungsregister / Change log

Revision	Date	Author	Description
0	7/1/2017	Dilp. Ing. (FH) Maik Lingies	Created

Measurement Range:	0 % ... 100 % oxygen (at atmospheric pressure)
Output in Ambient Air:	7 mV ... 13 mV
Electrical Interface:	3.5 mm mono phone Jack
Repeatability:	< 1 % volume O ₂ at constant temperature and pressure
Linearity error:	< 3 % relative
Response time:	< 5 s to 90 % of final value
Zero Offset Voltage:	< 40 µV in 100 % nitrogen
Cross Interference:	≤ 0.1 % vol. O ₂ response to: 15 % CO ₂ balance N ₂ 10 % CO 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 (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 % 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
Nominal Sensor Lifetime:	≥ 500 000 % volume oxygen hours
Weight:	approximately 28 grams
Sensor Coding	non
Warranty Period:	15 months (including 3-month shelf life)
Packaging:	Transparent bag
Reference Documents:	-
Part No.:	OOI101-1: 01-00-0073 (REF: WGA-02) OOI101-1: 01-00-0073 (REF: R-17VAN)

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

Mechanical draft:



General tolerances ISO 2768-c

Product Specification

Oxygen Sensor

OOI101-1

ENVITEC

by Honeywell

Confidential - For Vandagraph Ltd. only

Product Labeling

OOI101-1: 01-00-0073 (REF: WGA-02)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 A Southwire Company    S/N 100001 G7 	 A Southwire Company S/N 100001 G7 WGA-02 Oxygen Sensor      This oxygen sensor contains caustic liquid, in case of leakage avoid contact with eyes and skin. Do not puncture or staple this bag. Do not remove the oxygen sensor from this bag until ready to use. Depending upon the ambient conditions the oxygen sensor may require 30 minutes to reach signal stability after installation.
OOI101-1: 01-00-0073 (REF: WGA-02)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 15 Station Road, Cross Hills Keighley, West Yorkshire BD20 7DT, United Kingdom    For surface use only. S/N 100001 D7 	 15 Station Road, Cross Hills e-mail: info@vandagraph.co.uk Keighley, West Yorkshire Tel. +44 (0)1535 634900 BD20 7DT, United Kingdom Class R-17VAN Oxygen Sensor For surface use only. P/N 0110217   S/N 100001 D7    This oxygen sensor contains caustic liquid, in case of leakage avoid contact with eyes and skin. Do not puncture or staple this bag. Do not remove the oxygen sensor from this bag until ready to use. Depending upon the ambient conditions the oxygen sensor may require 30 minutes to reach signal stability after installation.

Customer Approval

Date: 24th July 2017

Signature:

