

OBL Sensor Specification

Type: OOD103

[Änderungsregister / Change log](#)

Revision	Date	Author	Description
0	04/2016	Dipl. Ing. (FH) Maik Lingies	Create
1	07/2019	Dipl. Ing. (FH) Maik Lingies	Change
2	08.12.2020	Dipl. Ing. (FH) Maik Lingies	Start with Revisions Log Add Label: OOD103: E1002856 (REF 8010060 / OSGA-20) remove Label: OOD103: 1001570 (REF 8010015 / UDT-22) OOD103: E1002736 (REF 8010018 / M3S), OOD103: E1001570 (REF 8010019 / SG-22), Change old article number to new SAP number
3	17.01.2024	Dipl. Ing. (FH) Maik Lingies	Add new Label OOD103: E1002931 (REF 8010029 / mCCR)
4	22.01.1025	Dipl. Ing. (FH) Maik Lingies	Change Label for: OOD103: E1002736 (REF 8010018 / M3S)
5	24.03.2025	Dipl. Ing. (FH) Maik Lingies	Change Label for: OOD103: E1002736 (REF 8010018 / M3S) change prefix
6	04.11.2025	Dipl. Ing. (FH) Maik Lingies	Change label design for OOD103: E1002734 (REF 8010008 / NaNM01) Change parameter "Output in Ambient Air" to "Initial output signal range in ambient air"

Product Specification
Oxygen Sensor
OOD103

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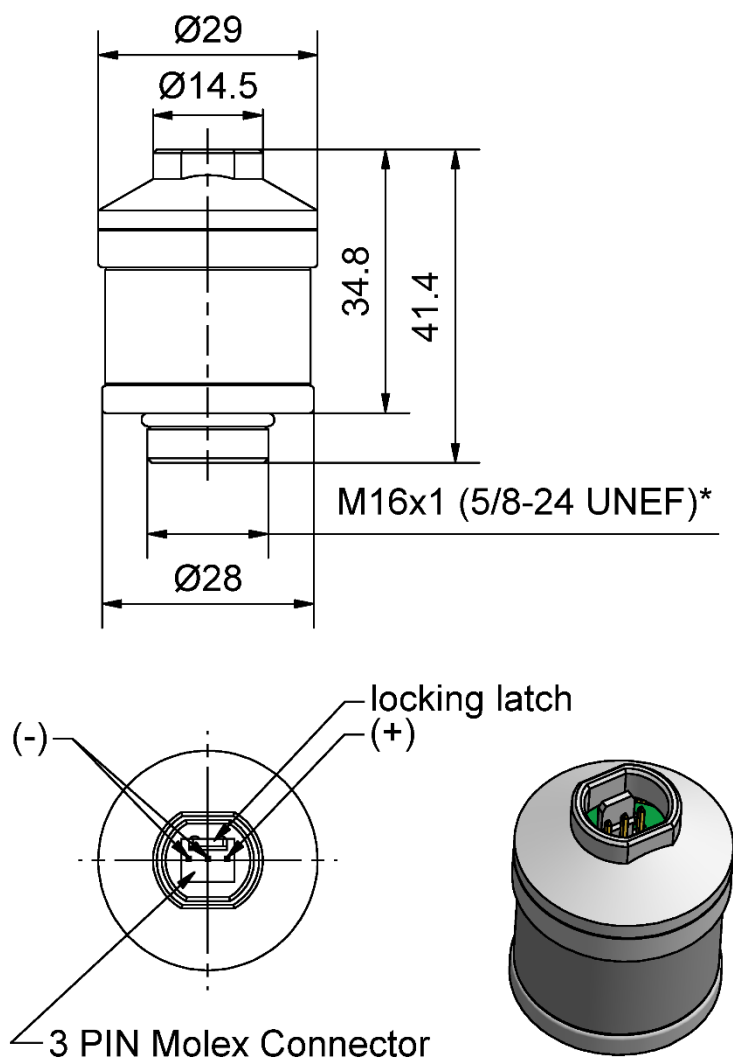
Measurement Range:	0 % ... 100 % oxygen
Initial output signal range in ambient air	9 to 13 mV
Electrical Interface:	3 pin (Molex 22-11-1031)
Repeatability:	< 1% vol. O ₂ @ constant temperature and pressure
Linearity error:	0.1 to 1.0 bar ppO ₂ < 3% relative
	0.1 to 2.5 bar ppO ₂ < 5% relative (at ppO ₂ > 1.0 bar after 1 h equilibration time)
Response time:	< 5 sec. to 90% of final value
Zero Offset Voltage:	< 0.5% oxygen reading in 100% nitrogen @ 25°C after 36 seconds
Cross Interference:	< 0.5% vol. O ₂ response to: 5% CO ₂ balance N ₂
Influence of Humidity:	- 0.03% rel. per % RH at 25°C
Pressure Range:	600 to 2500 mbar
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 0°C and +50°C: 5% 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)
Part No.:	OOD103: E1001570 (REF 8010000 / VST2200)
	OOD103: E1002733 (REF 8010006 / CR22D)
	OOD103: E1002734 (REF 8010008 / NaNM01)
	OOD103: E1002735 (REF 8010014 / K-22D)
	OOD103: E1002736 (REF 8010018 / M3S)
	OOD103: E1002737 (REF 8010020 / 22D)
	OOD103: E1002738 (REF 8010021 / DST-2200)
	OOD103: E1002749 (REF 8010026 / MSD100)
	OOD103: E1002856 (REF 8010060 / OSGA-20)
	OOD103: E1002931 (REF 8010029 / mCCR)

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
*Intermediate thread: Metric / Unified Extra Fine

Product Specification

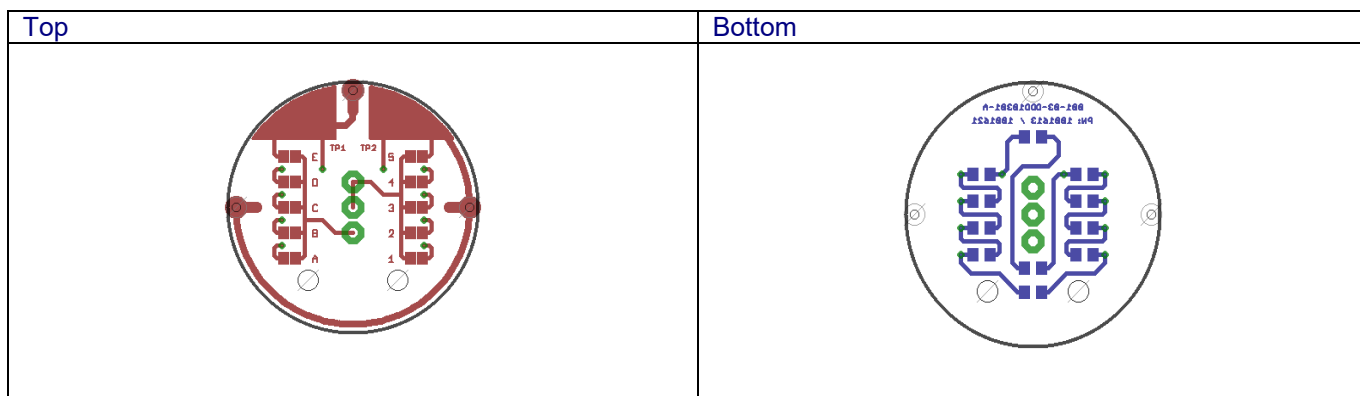
Oxygen Sensor OOD103

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Customized Design Specification:

- Integration of additional Zitex membrane in sensor gas diffusion way
- Conformal coating on the sensor PCB with PLASTIK 70
- 2 x 2mm holes drilled in the sensor PCB
- No information about EnviteC on PCB top / bottom sides, information for ordering process and traceability only.

PCB Layout:



Product Labeling

OOD103: E1001570 (REF 8010000 / VST2200)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
Vandagraph Sensor Technologies 15 Station Road, Cross Hills Keighley, West Yorkshire BD20 7DT, United Kingdom 2025-01 VST2200 Oxygen Sensor S/N VS123456 	Vandagraph Sensor Technologies 15 Station Road, Cross Hills Keighley, West Yorkshire BD20 7DT, United Kingdom e-mail: info@vandagraphst.com Tel. +44 (0)1535 634900 VST2200 Oxygen Sensor 2025-01 S/N VS123456  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.
OOD103: E1002733 (REF 8010006 / CR22D)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
BrEvo bvba CR22D - rEvo OXYGEN SENSOR S/N 10612345 Web: www.info@revo-rebreathers.com WARNING: CONTAINS CORROSIVE MATERIAL INSTALL SENSOR PRIOR TO: February 2012 Follow manufacturers recommendations for sensor replacement	BrEvo bvba CR22D - rEvo OXYGEN SENSOR SERIAL NO.: 10612345 WARNING ! 1. Sensor contains corrosive electrolyte. 2. Do not puncture or remove sealed membranes. 3. Use eye and hand protection if sensor leaks. 4. Flush and wipe electrolyte from all surfaces. 5. Electrolyte can be harmful or fatal if swallowed. 6. Return sensors damaged in transit to factory. 7. Do not push on either end of sensor. 8. Store at reduced temperature to extend life. INSTALLATION AND REPLACEMENT OF OXYGEN SENSORS: PLEASE REFER TO YOUR MANUFACTURERS MANUAL FOR RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. INSTALL SENSOR PRIOR TO: February 2012

Product Specification

Oxygen Sensor

OOD103

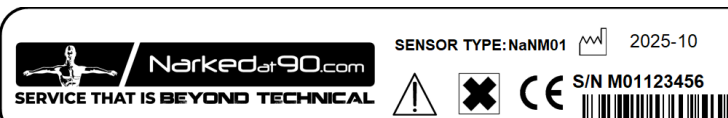
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Honeywell

Healthcare Solutions GmbH

OOD103: E1002734 (REF 8010008 / NaNM01)

Label on Sensor (90x15)



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



SENSOR TYPE: NaNM01

This sensor is tested for use in the Narked at 90:
Apocalypse PO2 Pod & Deep Pursuit Head.



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.

OOD103: E1002735 (REF 8010014 / K-22D)

Label on Sensor (90x15)



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



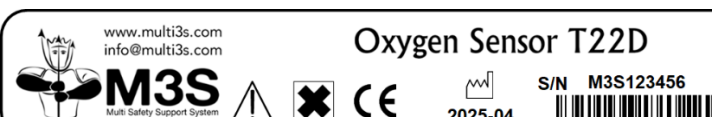
K-22D Oxygen Sensor



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.

OOD103: E1002736 (REF 8010018 / M3S)

Label on Sensor (90x15)



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



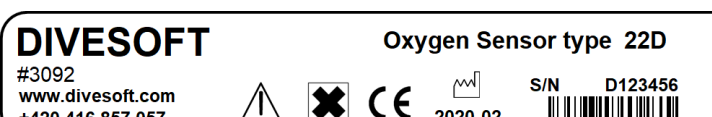
Oxygen Sensor T22D



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.

OOD103: E1002737 (REF 8010020 / 22D)

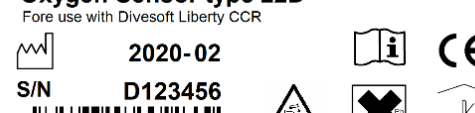
Label on Sensor (90x15)



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



Oxygen Sensor type 22D
Fore use with Divesoft Liberty CCR



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.

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Honeywell

Healthcare Solutions GmbH

OOD103: E1002738 (REF 8010021 / DST-2200)

Label on Sensor (90x15)



Divex3me
www.divex3me.com



DST-2200
Oxygen Sensor
S/N D123456

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



Divex3me

Via Valvassori Peroni
20133 Milano
Email: contact@divex3me.com
www.divex3me.com

DST-2200 Oxygen Sensor



2016-01

S/N D123456



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.

OOD103: E1002749 (REF 8010026 / MSD100)

Label on Sensor (90x15)



www.sharkrebreathers.com

MDS100 Oxygen Sensor



S/N SR1234567

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



Email: info@sharkrebreathers.com
www.sharkrebreathers.com

MDS100 Oxygen Sensor



2019-07

S/N SR1234567



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.

OOD103: E1002856 (REF 8010060 / OSGA-20)

Label on Sensor (90x15)



www.wittgas.com
Tel +49 (0)2302 8901-0



OSGA-20 Oxygen Sensor

S/N W123456

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



WITT-Gasetechnik GmbH & Co KG
Salinger Feld 4-8
58454 Witten
Deutschland/Germany

Tel +49 (0)2302 8901-0
Fax +49 (0)2302 8901-3
witt@wittgas.com
www.wittgas.com

OSGA-20 Oxygen Sensor



2020-11

S/N W123456



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.

OOD103: E1002856 (REF 8010060 / OSGA-20)

Label on Sensor (90x15)



Salamandre mCCR Oxygen Sensor

Air Research SARL
15 rue des Alpes
1211 Geneva - Switzerland



S/N AR123456

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



Salamandre mCCR Oxygen Sensor
Air Research SARL
15 rue des Alpes
1211 Geneva - Switzerland
e-mail: contact@air-research.ch

SALAMANDRE mCCR
Oxygen Sensor



2023-11

S/N AR123456



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.

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Customer Approval

Date 11/10/2025

Signature: Steve Nixon
Steve Nixon (Nov 10, 2025 12:33:16 GMT)