

OBL Sensor Specification

Type: OOD103

Änderungsregister / Change log

Revision	Date	Author	Description
0	04/2016	Maik Lingies	Create
1	07/2019	Maik Lingies	Change
2	08.12.2020	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	Maik Lingies	Add new Label OOD103: E1002931 (REF 8010029 / mCCR)
4	22.01.1025	Maik Lingies	Change Label for: OOD103: E1002736 (REF 8010018 / M3S)
5	24.03.2025	Maik Lingies	Change Label for: OOD103: E1002736 (REF 8010018 / M3S) change prefix

Measurement Range:	0 % ... 100 % oxygen
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:	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.

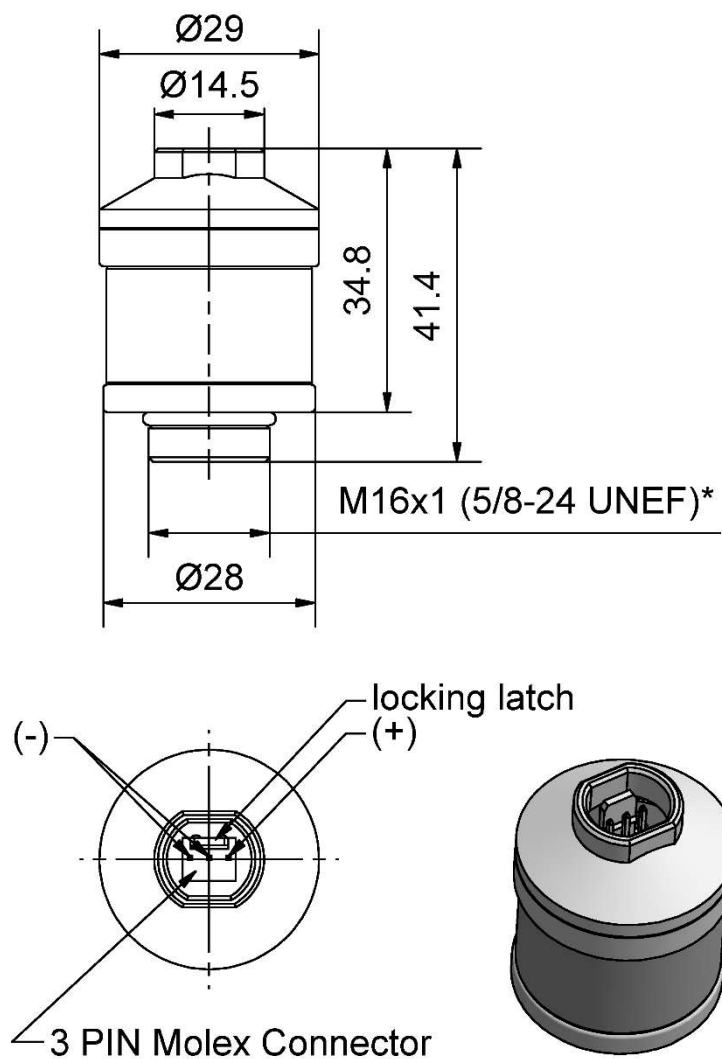
Product Specification

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Mechanical draft:



General tolerances ISO 2768-c

*Intermediate thread: Metric / Unified Extra Fine

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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:

Top	Bottom

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 VST2200 Oxygen Sensor S/N VS123456 2025-01	 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)
 rEvo 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	 rEvo 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

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OOD103: E1002734 (REF 8010008 / NaNM01)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 IMAGINATION INNOVATION REALISATION www.narkedat90.com SENSOR TYPE: NaNM01 2011-05 S/N M01123456 CE Warning symbols: exclamation mark, crossed circle, CE	 IMAGINATION INNOVATION REALISATION www.narkedat90.com SENSOR TYPE: NaNM01 This sensor is tested for use in the Narked at 90: Apocalypse PO2 Pod & Deep Pursuit Head. 2013-06 S/N S01123456 CE Warning symbols: exclamation mark, crossed circle, CE, temperature range -20°C to 50°C 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)
 KISS Kiss Rebreather LLC www.kissrebreathers.com K-22D Oxygen Sensor 2012-10 S/N K123456 CE Warning symbols: exclamation mark, crossed circle, CE	 KISS Kiss Rebreather LLC www.kissrebreathers.com K-22D Oxygen Sensor 2012-10 S/N K123456 CE Warning symbols: exclamation mark, crossed circle, CE, temperature range -20°C to 122°F 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)
 www.multi3s.com info@multi3s.com M3S Multi Safety Support System Oxygen Sensor T22D 2025-04 S/N M3S123456 CE Warning symbols: exclamation mark, crossed circle, CE	 www.multi3s.com info@multi3s.com 83170 TOURVES FRANCE M3S Multi Safety Support System Oxygen Sensor T22D 2025-04 S/N M3S123456 CE Warning symbols: exclamation mark, crossed circle, CE, temperature range -4°F to 122°F 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)
 DIVESOFT #3092 www.divesoft.com +420 416 857 057 Oxygen Sensor type 22D 2020-02 S/N D123456 CE Warning symbols: exclamation mark, crossed circle, CE	 DIVESOFT Hálkova 2495 413 01 Roudnice nad Labem Czech Republic +420 416 857 057 #3092 www.divesoft.com info@divesoft.com Oxygen Sensor type 22D Fore use with Divesoft Liberty CCR 2020-02 S/N D123456 CE Warning symbols: exclamation mark, crossed circle, CE, temperature range -4°F to 122°F 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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OOD103: E1002738 (REF 8010021 / DST-2200)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 Divex3me www.divex3me.com DST-2200 Oxygen Sensor S/N D123456     2016-01 	 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)	Label on Blister- Card (63,5x46,6)
 www.sharkrebreathers.com MDS100 Oxygen Sensor     2019-07 S/N SR1234567 	 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)	Label on Blister- Card (63,5x46,6)
 www.wittgas.com Tel +49 (0)2302 8901-0 OSGA-20 Oxygen Sensor     2020-11 S/N W123456 	 www.wittgas.com 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)	Label on Blister- Card (63,5x46,6)
 Salamandre mCCR Oxygen Sensor Air Research SARL 15 rue des Alpes 1211 Geneva - Switzerland     2023-11 S/N AR123456 	 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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Honeywell
Healthcare Solutions GmbH

Customer Approval

Date: 04/10/2025

Signature:

Steve Nixon

Steve Nixon (Apr 10, 2025 17:42 GMT+1)