

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"
7	15.04.2026	Dipl. Ing. (FH) Maik Lingies	Changing the Sensor cap with wrench surfaces to cap round surfaces.

Product Specification
Oxygen Sensor
OOD103

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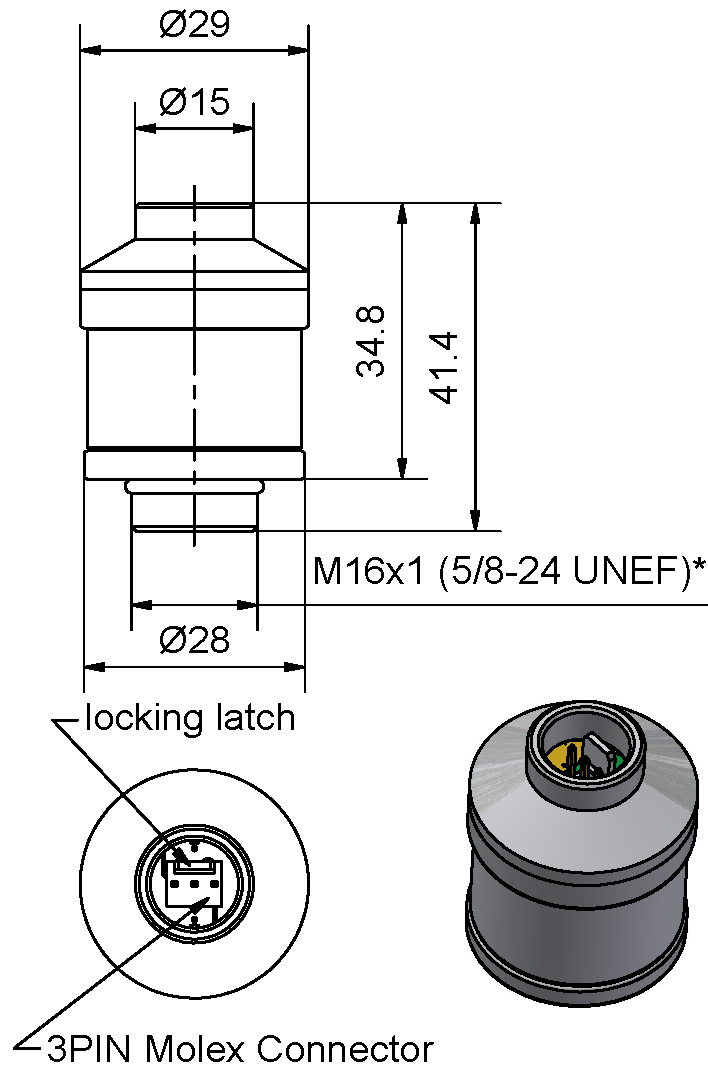
Measurement Range:	0 % ... 100 % oxygen
Initial output signal range in ambient air	9 to 13 mV
Electrical Interface:	3 pin (Molex 22-11-1031)
Repeatability:	< 1% vol. O ₂ @ constant temperature and pressure
Linearity error:	0.1 to 1.0 bar ppO ₂ < 3% relative 0.1 to 2.5 bar ppO ₂ < 5% relative (at ppO 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

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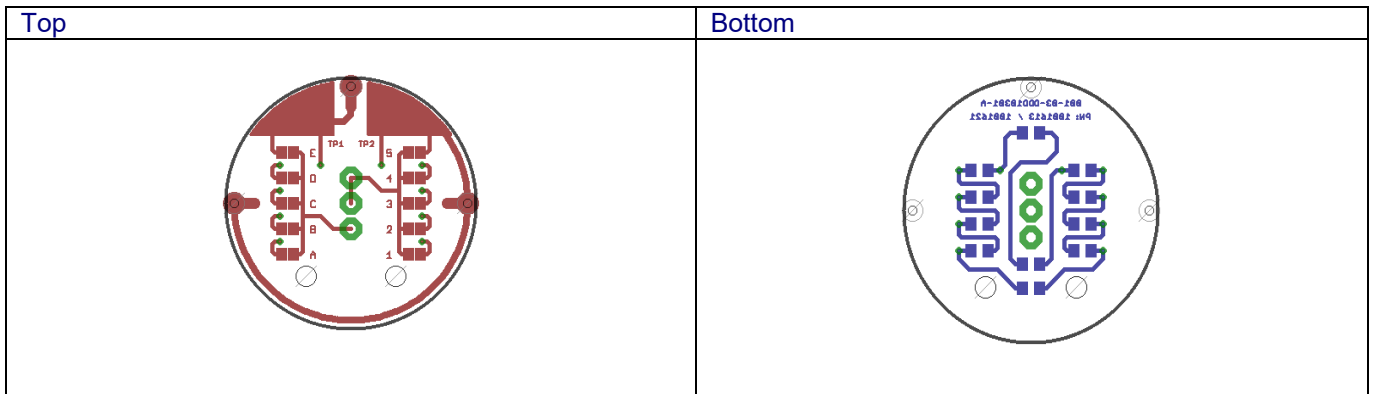
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Customized Design Specification:

- 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)
OOD103: E1002733 (REF 8010006 / CR22D)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)

Product Specification

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<p>OOD103: E1002734 (REF 8010008 / NaNM01)</p>	
<p>Label on Sensor (90x15)</p>	<p>Label on Blister- Card (63,5x46,6)</p>
<p>OOD103: E1002735 (REF 8010014 / K-22D)</p>	
<p>Label on Sensor (90x15)</p>	<p>Label on Blister- Card (63,5x46,6)</p>
<p>OOD103: E1002736 (REF 8010018 / M3S)</p>	
<p>Label on Sensor (90x15)</p>	<p>Label on Blister- Card (63,5x46,6)</p>
<p>OOD103: E1002737 (REF 8010020 / 22D)</p>	
<p>Label on Sensor (90x15)</p>	<p>Label on Blister- Card (63,5x46,6)</p>

Product Specification

Oxygen Sensor

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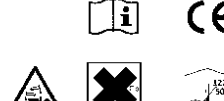


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
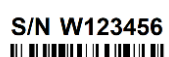

OOD103: E1002738 (REF 8010021 / DST-2200)

<p>Label on Sensor (90x15)</p>  <p>Divex3me www.divex3me.com</p>  <p>2016-01</p> <p>DST-2200 Oxygen Sensor S/N D123456</p> 	<p>Label on Blister- Card (63,5x46,6)</p>  <p>Divex3me Via Valvassori Peroni 20133 Milano Email: contact@divex3me.com www.divex3me.com</p> <p>DST-2200 Oxygen Sensor</p>  <p>2016-01</p> <p>S/N D123456</p>   <p>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.</p>
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OOD103: E1002749 (REF 8010026 / MSD100)

<p>Label on Sensor (90x15)</p>  <p>www.sharkrebreathers.com</p>  <p>2019-07</p> <p>MDS100 Oxygen Sensor S/N SR1234567</p> 	<p>Label on Blister- Card (63,5x46,6)</p>  <p>Email: info@sharkrebreathers.com www.sharkrebreathers.com</p> <p>MDS100 Oxygen Sensor</p>  <p>2019-07</p> <p>S/N SR1234567</p>   <p>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.</p>
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OOD103: E1002856 (REF 8010060 / OSGA-20)

<p>Label on Sensor (90x15)</p>  <p>www.wittgas.com Tel +49 (0)2302 8901-0</p>  <p>2020-11</p> <p>OSGA-20 Oxygen Sensor S/N W123456</p> 	<p>Label on Blister- Card (63,5x46,6)</p>  <p>www.wittgas.com</p> <p>WITT-Gasetechnik GmbH & Co KG Salinger Feld 4-8 58454 Witten Deutschland/Germany</p> <p>Tel +49 (0)2302 8901-0 Fax +49 (0)2302 8901-3 witt@wittgas.com www.wittgas.com</p> <p>OSGA-20 Oxygen Sensor</p>  <p>2020-11</p> <p>S/N W123456</p>   <p>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.</p>
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OOD103: E1002856 (REF 8010060 / OSGA-20)

<p>Label on Sensor (90x15)</p>  <p>Salamandre mCCR Oxygen Sensor Air Research SARL 15 rue des Alpes 1211 Geneva - Switzerland</p>  <p>2023-11</p> <p>S/N AR123456</p> 	<p>Label on Blister- Card (63,5x46,6)</p>  <p>Salamandre mCCR Oxygen Sensor Air Research SARL 15 rue des Alpes 1211 Geneva - Switzerland e-mail: contact@air-research.ch</p> <p>SALAMANDRE mCCR Oxygen Sensor</p>  <p>2023-11</p> <p>S/N AR123456</p>   <p>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.</p>
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Customer Approval

Date: 27/04/2026

Signature: S. Nixon
S.Nixon (Apr 27, 2026 11:06:41 GMT+1)

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