

Sensor Specification

Type: OOM111-M

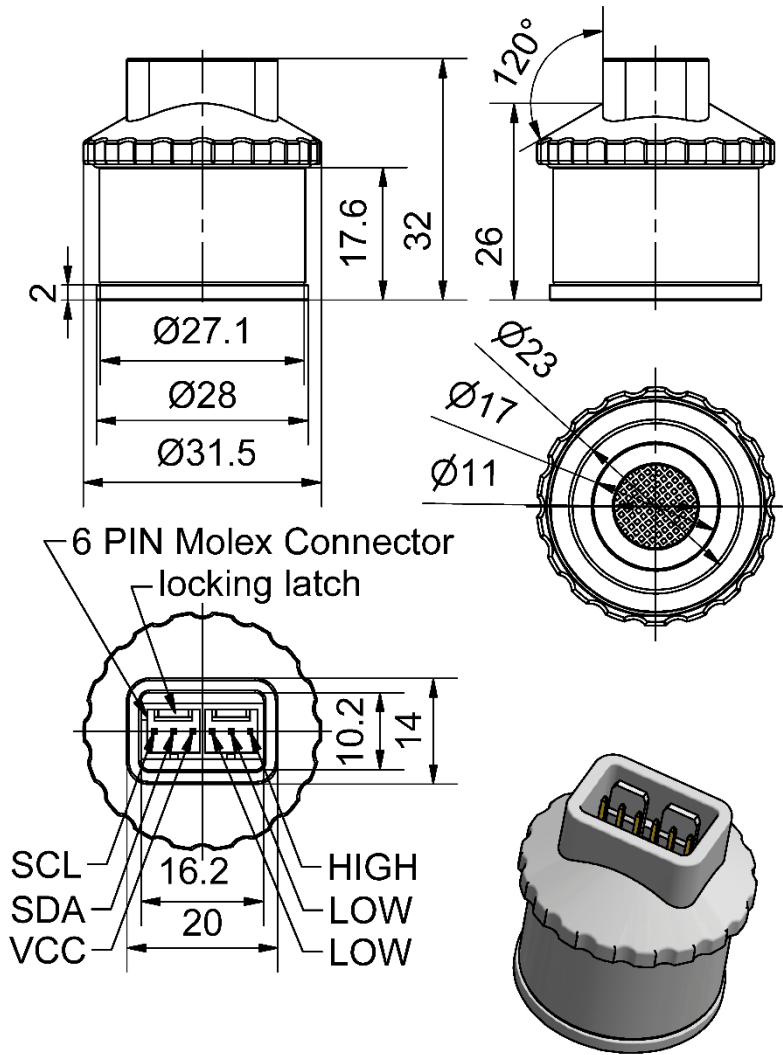
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Revision	Date	Author	Description
0	04.10.2023	Dipl. Ing. (FH) Maik Lingies	Created

Measurement Range:	0 % ... 100 % oxygen
Output in Ambient Air:	10 to 20 mV
Electrical Interface:	6 pin Molex. Pins shall be gold plated
Repeatability:	< 1% vol. O ₂ @ constant temperature and pressure
Linearity error:	< 3 % relative
Response time:	< 15sec. to 90 % of final value
Zero Offset Voltage:	< 50 µV in 100 % nitrogen, applied for 5 min
Cross Interference:	meets ISO 80601-2-55 requirements
Influence of Humidity:	- 0.035% 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 1m
Operating Temperature:	10°C to 50°C
Temperature Compensation:	Built-in NTC compensation
Effect of Temperature Compensation (steady state):	between +20 °C and +40 °C: 2% relative error between 10 °C and +50 °C: 5% relative error
Operating Humidity:	0 - 100% RH non-condensing (only with Filter)
Long Term Output Drift:	< 1% vol. oxygen per month in air averaged about 12 month
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:	≥1.000.000 % vol. oxygen hours
Weight:	< 35 grams
Sensor Coding	Built-in data memory chip.
Warranty Period:	15 months (including 3-month shelf life)
Part No.:	E01-00-0075
Packaging:	in plastic blister including sensor filter





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

Mechanical draft:



General tolerances ISO 2768-c

Product Labeling

OOMLF108: 1002535	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
<div><div><p>Healthcare Solutions GmbH www.envitec.com</p></div><div><p>Medical Oxygen Sensor</p></div><div><p>TYPE: OOM111-M</p></div><div><p>SN: AA512345</p></div><div><p>MD CE 0123</p></div><div><p>2023-09-01</p></div></div>	<div><div><p>Medical Oxygen Sensor OOM111-M</p></div><div></div><div><p>(01)04036616005999(11)230901(21)AA512345</p></div><div><p>PN 01-00-0075 MD CE 0123 SN AA512345</p></div><div><div><p>Healthcare Solutions GmbH</p></div><div><p>Alter Holzhafen 18 23966 Wismar www.envitec.com</p></div><div><p>Made in Germany</p></div></div><div><p>Depending on the ambient conditions the sensor may require up to 30 minutes to reach signal stability after installation. The sensor contains caustic liquid and lead. In case of leakage avoid contact with eyes and skin! Recommended storage temperature: 5°C - 15°C ! Follow the instructions for use in operating manual for medical oxygen sensors at www.envitec.com !</p></div><div><div></div><div><p>2023-09-01</p></div></div></div>