

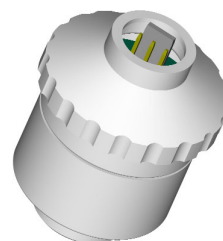
Medical Oxygen Sensors**General Specifications**

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

Measurement Range:	0 - 100 % oxygen partial pressure
Zero Offset:	< 0.5 % vol. O ₂ in 100% N ₂ , applied for 5 minutes
Accuracy and Repeatability:	< 1% vol. O ₂ , when calibrated at 100% vol. O ₂
Linearity Error:	< 3% relative
Drift:	< 1% vol. O ₂ over 8 hours
Cross Interference:	< 0.5 % vol. O ₂ response to: 10 % CO ₂ balance N ₂ 80% N ₂ O balance N ₂ 7.5% Halothane balance N ₂ 7.5 % Isoflurane balance N ₂ 7.5 % Enflurane balance N ₂ 9% Sevoflurane balance N ₂ 20% Desflurane balance N ₂
Influence of Humidity:	- 0.03 % relative per % RH at 25°C
Influence of Pressure:	proportional to change in oxygen partial pressure
Influence of Mechanical Shock:	< 1% relative after a fall from 1m
Operating Temperature:	0°C - 50°C
Temperature Compensation:	built-in NTC compensation (see below)
Effect of Temperature-Compensation (steady state):	between 25°C and 40°C: 3% relative error between 0°C and 50°C: 8% error
Operation Humidity:	0- 99 % RH (condensing atmosphere over several hours)
Storage Temperature:	-20°C – 60°C
Recommended Storage:	in the container at 5°C - 15°C
Recommended Load:	≥ 10 kOhms
Weight:	approximately 28 grams, 43grams (OOM107 series)

**ENVITEC-
Medical Oxygen Sensors**

- Meet DIN EN 12598 and ISO 7767
- Designed and manufactured according to EN ISO 9001 / 7.94 and EN 46001/ 8.96
- Accurate and reliable response
- Excellent repeatability and signal stability
- Resistant to N₂O
- Highest product quality
- Short lead times

**Model Specifications**

Oxygen Sensor Part Number	Output Signal in Air	Response Time T _{90%}	Nominal Sensor Lifetime	Electrical Interface
OOM101	46µA – 63µA no temperature compensation	< 13 seconds	≥ 500 000 % volume oxygen hours	Gold plated slip rings
OOM102	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume oxygen hours	3 pin Molex® Connector
OOM102-1	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume oxygen hours	3.5mm Mono Jack
OOM103	9mV – 13mV temperature compensated	< 5 seconds	≥ 500 000 % volume oxygen hours	3 pin Molex® Connector
OOM103-1	9mV – 13mV temperature compensated	< 5 seconds	≥ 500 000 % volume oxygen hours	3.5mm Mono Jack
OOM104	24µA – 32µA no temperature compensation	< 13 seconds	≥ 750 000 % volume oxygen hours	Gold plated slip rings
OOM105	Teledyne® TED range	< 5 seconds	≥ 500 000 % volume oxygen hours	Molex® plug 4P4C
OOM106	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume oxygen hours	3 pin Molex® Connector
OOM107	170µA – 230µA no temperature compensation	< 13 seconds	≥ 250 000 % volume oxygen hours	Gold plated slip rings
OOM107-2	170µA – 230µA no temperature compensation	< 13 seconds	≥ 250 000 % volume oxygen hours	Flying leads with pin-connectors
OOM110	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume oxygen hours	Modular Jack 6P4C
OOM201	24µA – 32µA (Dual Cathode) no temperature compensation	< 13 seconds	≥ 500 000 % volume oxygen hours	Gold plated slip rings
OOM202	13mV – 16mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume oxygen hours	3 pin Molex® Connector
OOM202-2	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume oxygen hours	Flying leads with 3 pin female Molex® Connector

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