

Medical Oxygen Sensors general specifications

Measurement range	0-100 % oxygen
Accuracy and repeatability	< 1 % vol. O ₂ when calibrated at 100 % O ₂
Zero offset	< 0.5 % vol. O ₂ in 100% N ₂ , applied 5 minutes
Linearity error	< 3 % relative
Cross interference	Meets EN ISO 21647 requirements
Influence of humidity	- 0.03 % rel. 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 to 50° C
Temperature compensation	built-in NTC compensation (depends on type)
Effect of temperature compensation (steady state)	between +25 °C and +40 °C: 3 % relative error between 0 °C and +50 °C: 8 % 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 to +50 °C
Recommended storage	+5 to +15 °C
Recommended load	≥ 10 kOhms
Warm-up time	< 30 minutes, after replacement of sensor
Weight	approximately 28 grams approximately 43 grams OOM107 series

Meet EN ISO 21647, Designed and manufactured according to EN ISO 9001 : 2000 and EN13485 : 2003
All specifications are applicable at standard conditions: 1013 hPa, 25 °C dry ambient air

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Widest range of compatible sensors for
leading manufactures in the world.

Medical Oxygen Sensors for life supporting systems

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Medical Oxygen Sensors technical specifications

Use the advantages:

- accurate and reliable response
- resistant to N₂O
- excellent signal stability
- high product quality
- short lead times
- technical support



	Oxygen sensor part number	Output signal in air	Response time T 90%	Nominal sensor life-time	Electrical interface
	OOM101	46µA – 63µA no temperature compensation	< 12 seconds	≥ 500 000 % volume oxygen hours	gold plated slip rings
	OOM102	9mV – 14mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	3 pin Molex® connector
	OOM102-1	9mV – 14mV temperature compensated	< 12 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
	OOM103-1M	9mV – 13mV temperature compensated	< 5 seconds	≥ 500 000 % volume oxygen hours	Switchcraft® mini power Jack
	OOM104	24µA – 32µA no temperature compensation	< 12 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	< 12 seconds	≥ 1 000 000 % volume oxygen hours	3 pin Molex® connector
	OOM107	170µA – 230µA no temperature compensation	< 12 seconds	≥ 250 000 % volume oxygen hours	gold plated slip rings
	OOM107-2	170µA – 230µA no temperature compensation	< 12 seconds	≥ 250 000 % volume oxygen hours	Flying leads with pin-connectors

	Oxygen sensor part number	Output signal in air	Response time T 90%	Nominal sensor life-time	Electrical interface
	OOM109	9mV to 13mV temperature compensation	< 300 msec.	≥ 200 000 % volume oxygen hours	3pin molex®
	OOM109-EM*	130mV to 190mV* temperature compensation	< 150 msec.*	≥ 200 000 % volume oxygen hours	AMP 100411-0 connector*
	OOM109-EMLF*	130mV to 190mV* temperature compensation	< 150 msec.*	≥ 200 000 % volume oxygen hours	AMP 100411-0 connector*
	OOM109-LF	9mV to 13mV temperature compensation	< 300 msec.	≥ 200 000 % volume oxygen hours	3pin molex®
	OOM110	10mV – 12mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	modular Jack 6P4C
	OOM111	11mV – 13mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	3mm stereo Jack
	OOM112	30mV – 40mV temperature compensated	< 12 seconds	≥ 500 000 % volume oxygen hours	gold plated slip rings
	OOM201	24µA – 32µA (Dual Cathode) no temperature compensation	< 12 seconds	≥ 500 000 % volume oxygen hours	gold plated slip rings
	OOM202	13mV – 16mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	3 pin molex®
	OOM202-1	13mV – 16mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	3.5mm mono Jack
	OOM202-2	9mV – 13mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	flying leads with 3pin female molex® connector
	OOM202-2S	9mV – 11.5mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume oxygen hours	AMP MATE-N-LOK / 2 circuit
	OOM204	9mV – 13.5mV (dual cathode) temperature compensated	< 12 seconds	≥ 500 000 % volume oxygen hours	3 pin molex®

* in connection with E.R.O.S. – Module 01