

Oxygen Sensors Product Specification

Measurement Range	0-100% O ₂	0-100% O ₂	0-100% O ₂
Output in ambient air	9 -13-mV	9 -13-mV	9 -13-mV
Connector	3pm (Molex22-1 1-1031	3,5mm Mono Jack	Radiall R114.426.000
Accuracy and Repeatability	<1 % vol.O ₂ calibrated at 100% O ₂	<1 % vol.O ₂ calibrated at 100% O ₂	<1 % vol.O ₂ calibrated at 100% O ₂
Linearity error	<3% vol relative	<3% vol relative	<3% vol relative
Response time	<5sec. 90% step change	<5sec. 90% step change	<5sec. 90% step change
Zero Offset Voltage	<40 microV in 100 % N ₂	<40 microV in 100 % N ₂	<40 microV in 100 % N ₂
Cross Interference	<0.1% vol 15% CO ₂ balance N ₂ <0.1% vol10% CO Balance N ₂	<0.1% vol 15% CO ₂ balance N ₂ <0.1% vol10% CO Balance N ₂	<0.1% vol 15% CO ₂ balance N ₂ <0.1% vol 10% CO Balance N ₂
Influence of Humidity	- 0.03 % rel. per % RH at 25°C	- 0.03 % rel. per % RH at 25°C	- 003 % rel. per % RH at 25°C
Influence of Pressure	proportional to change in PP O ₂	proportional to change in PP O ₂	proportional to change in PP O ₂
Influence of Mechanical Shock	<1% relative after 1mtr drop	<1% relative after 1mtr drop	<1% relative after 1mtr drop
Operating Temperature	0°C-50°C	0°C-50°C	0°C-50°C
Temperature comp.	built-in NTC compensation	built-in NTC compensation	built-in NTC compensation
Steady state	25°C - +40°C: 3 % relative error	25°C - +40°C: 3 % relative error	25°C - +40°C: 3 % relative error
Operating Humidity	0-99 % RH non-condensing	0-99 % RH non-condensing	0-99 % RH non-condensing
Long Term Output Drift	typically < -15 % relative over lifetime	typically < -15 % relative over lifetime	typically < -15 % relative over lifetime
Storage Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Recommended Storage	+5°C to +15°C	+5°C to +15°C	+5°C to +15°C
Recommended Load	≥10 kOhms	≥10 kOhms	≥10 kOhms
Warm-Up Time	<30 minutes, after replacement	<30 minutes, after replacement	<30 minutes, after replacement

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Nominal Lifetime	≥500-000 % vol oxygen hours	≥500-000 % vol oxygen hours	≥500-000 % vol oxygen hours
Weight	28 grams approx.	28 grams approx.	28 grams approx.
Warranty Period (OEM)	15 months	15 months	15 months
Notes	Meets EN ISO 21647 Designed and manufactured according to EN ISO 9001 :2000 and EN ISO 13485: 2003	Meets EN ISO 21647 Designed and manufactured according to EN ISO 9001 :2000 and EN ISO 13485: 2003	Meets EN ISO 21647 Designed and manufactured according to EN ISO 9001 :2000 and EN ISO 13485: 2003
	All specifications are applicable at standard conditions: 1013 hPa, 25°C dry ambient air	All specifications are applicable at standard conditions: 1013 hPa, 25°C dry ambient air	All specifications are applicable at standard conditions: 1013 hPa, 25°C dry ambient air
	Hydrophobic membrane		
	Pressure release holes in PCB		
	PCB conformal coated.		

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Diagrams

