Oxygen Sensors for Life Supporting Systems

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Use the advantages:

Accurate and reliable response
Resistant to N2O
Excellent signal stability
High product quality
Short lead times
Technical support

Meet EN ISO 21647
Designed and manufactured according to EN ISO 9001 : 2000 and EN13485 : 2003

Medical Oxygen Sensors general specification

Measurement Range:	0-100 % oxygen
Accuracy and Repeatability:	< 1 % vol. O2 when calibrated at 100 % O2
Zero Offset:	< 0,5 % vol. O2 in 100% N2, applied 5 minutes
Linearity Error:	< 3 % relative
Cross Interference:	< 0.5 % vol. O2 response to: 10 % CO2 balance N2 80% N2O balance N2 7.5% Halothane balance N2 7.5 % Isoflurane balance N2 7.5 % Enflurane balance N2 9% Sevoflurane balance N2 20% Desflurane balance N2
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 to 50°C
Temperature Compensation:	built-in NTC compensation (see below)
Effect of Temperature	between +5 °C and +25 °C: 3 % relative error
Compensation (steady state):	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

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

Oxygen Sensor Part Number	Output Signal in Air	Response Time T 90%	Nominal Sensor Lifetime	Electrical Interface
E61-660	46µA – 63µA no temperature compensation	< 13 seconds	≥ 500 000 % volume Oxygen hours	Gold plated slip rings
E61-918	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume Oxygen hours	3 pin Molex® Connector
E61-910	9mV – 13mV temperature compensated	< 13 seconds	≥ 1 000 000 % volume Oxygen hours	3.5mm Mono Jack
E61-907	9mV – 13mV temperature compensated	< 5 seconds	≥ 500 000 % volume Oxygen hours	3 pin Molex® Connector
E61-908	9mV – 13mV temperature compensated	< 5 seconds	≥ 500 000 % volume Oxygen hours	3.5mm Mono Jack
E61-906	9mV – 13mV temperature compensated	< 5 seconds	≥ 500 000 % volume Oxygen hours	Switchcraft® Mini Power Jack
E61-661	24µA – 32µA no temperature compensation	< 12 seconds	≥ 750 000 % volume Oxygen hours	Gold plated slip rings
E61-914	Teledyne® TED range	< 5 seconds	≥ 500 000 % volume Oxygen hours	Molex® plug 4P4C
E61-913	9mV – 13mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	3 pin Molex® Connector
E61-912	170µA – 230µA no temperature compensation	< 12 seconds	≥ 250 000 % volume Oxygen hours	Gold plated slip rings
E61-550	170µA – 230µA no temperature compensation	< 12 seconds	≥ 250 000 % volume Oxygen hours	Flying leads with pin-connectors
E61-670	9mV – 13mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	Modular Jack 6P4C
E61-927	9mV – 13mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	3mm Stereo Jack
E61-663	24µA – 32µA (Dual Cathode) no temperature compensation	< 12 seconds	≥ 500 000 % volume Oxygen hours	Gold plated slip rings
E61-840	13mV – 16mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	3 pin molex®
E61-570	13mV – 16mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	3,5mm Mono Jack
E61-570-2	9mV – 13mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	flying leads with 3pin female molex® connector
E61-570C	9mV – 11,5mV temperature compensated	< 12 seconds	≥ 1 000 000 % volume Oxygen hours	AMP MATE-N-LOK / 2 circuit

Oxygen Sensors for Medical Applications

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E61-660


E61-661


E61-918


E61-914


E61-910


E61-913


E61-907


E61-912


E61-908


E61-550


E61-906


E61-670

Manufacturer			Westprime Part Number																	
Name	Type	Reference-No.:	E61 -660	E61 -918	E61 -910	E61 -907	E61 -908	E61 -906	E61 -661	E61 -914	E61 -913	E61 -912	E61 -550	E61 -670	E61 -927	E61 -663	E61 -840	E61 -570	E61 -570-2	E61 -570C
Airshields	Isolette C2000			■																
		6735142																■		
Bio Tek		48351											■							
BMD Bio Med Dev.	M-10, M-2	10006			■															
Bird Products (VIASYS)	6400 Vent., 8400 Vent., VIP Vent.	66030			■															
	Avea. Vent																■			
Catalyst Research MSA		655263														■				
		655264	■																	
	MiniOX I,II,III & 3000	406931			■															
		472062															■			
		478841											■							
		485905										■								
		804674								■										
	MiniOX IA	806572																	■	
Datascope		0600-00-0002									■									
Datex-Engström	Erica				■															
	Elvira				■															
Dräger	Oxycom, Oxydig, Anemone, Evita, Cicero, Babylog, Fabius, PM 8030	6850645														■				
	Incubator 8000	6850645							■							■				
NAD	Narcomed	6850645														■				
Hamilton	Arabella, Amadeus, Veolar	HM-01										■								
		HM-03								■										
		HM-10	■																	
	Galileo, Raphael, Alladin	HM-11																		
		HM-12															■			
		HM-13														■				
		HM-14														■				
Hewlett Packard		15201A														■				
		5556	■																	
		5557														■				
		5558								■										
Hudson		5566															■			
		5567			■															
		5568											■							
		5569										■								
Infrasonics		60116															■			
Invivo	Magnitude	9445					■													
Newport	Wave Ventilator OM100 / OM105									■										

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E61-927

E61-663

E61-840

E61-570

E61-570-2

E61-570S

Manufacturer			Westprime Part Number																		
Name	Type	Reference-No.:	E61 -660	E61 -918	E61 -910	E61 -907	E61 -908	E61 -906	E61 -661	E61 -914	E61 -913	E61 -912	E61 -550	E61 -670	E61 -927	E61 -663	E61 -840	E61 -570	E61 -570-1	E61 -570S
Datex-Ohmeda	4700 Oxicap, 5100, 5120,5140, 5250, 5250 RGM, 7200, 7800,7810, Excel, Modulus	0237-2034-700	■																	
(GE Medical)	Aestiva, 7900 Monitor, Excel SE	6050-0004-110												■						
	Giraffe	6600-1278-600 (6600-0120-850)													■					
Puritan Bennett	7280 Monitor, 7200 Ventilator	4-020933-00			■															
	Ventilators 840, 740, 760	4-072214-00															■			
Sechrist	650 / 4370									■										
Siemens	SV 300 and 710	9004979 E347E															■			
	SV 300 and 710	6419332 E380E															■			
	SV 900 C/D																■			
SLE	T-801				■															
Space Labs	90514			■													■			
Stephan	Stephanie																			■
	Artec/Christina				■															
Teledyne		R15	■																	
		R17 MED			■															
		R22 MED		■																
		R22CC				■														
		R23														■				
		R24															■			
	No leads	T1/T2										■								
	With leads	C1R/ C2R											■							
	AX 300 / MX 300				■															
	TED 60T/191T/200T	T7								■										
Vickers Mie													■							