

Oxygen MediceL® Specification

MOX-1,2,3 & 4 MediceL[®]

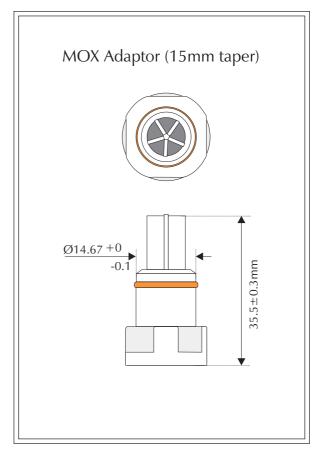


N.B. The specification is based on measurements made with cylinder gases using a flow rate of 100 mls min⁻¹. Conditions at 20°C, 50%RH, and 1013mBar unless otherwise noted.

Performance Characteristics

Output	9-13 mV in 210mBar O_2	
Range	0-1500mBarO ₂	
Signal in 100% O ₂	D ₂ 100±1%	
Resolution	1mBarO ₂	
Expected Operating Life	$1.5 \times 10^{6} \% O_{2}$ hours at 20°C 0.8 x 10 ⁶ % O ₂ hours at 40°C	
Response Time (air to 100%O ₂)	T ₉₀ < 15s	
Linearity	Linear 0-100% O ₂	
Zero signal in N_2 at 20°C	<200µV	
Operating Temp. Range	-20°C to +50°C	
Temp. Compensation	±2% variation from 0-40°C	
Pressure Range	0.5-2.0Bar	
Relative Humidity Range	0 to 99% non-condensing	
Long Term Output Drift in $100\% O_2$	Typically <5% over 1 year	
Housing Material	White ABS	
Packaging	Sealed blister packaging	
N ₂ O Resistance	Resistant to 100% N_2O	
Cross-Sensitivity	Meets EN12598 requirements	
Warranty Period	13 months from date of despatch (This amounts to a variation of condition 6 of our standard terms and conditions	

which otherwise apply)



CE 0088

Sensor	Connections	Suggested Mating Parts
MOX-1	M16 thread, 3-pin molex header (MOLEX 22-29-2031)	MOLEX 22-01-2035 (3-way housing) MOLEX 08-56-0110 (crimp terminals)
MOX-2	M16 thread, 0.141"/3.5mm mini phone jack	SWITCHCRAFT 750 mini phone jack
MOX-3	M16 thread, UK data socket AMP P/N 520257-2	
MOX-4	M16 thread, UK data socket AMP P/N 520257-2	

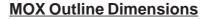
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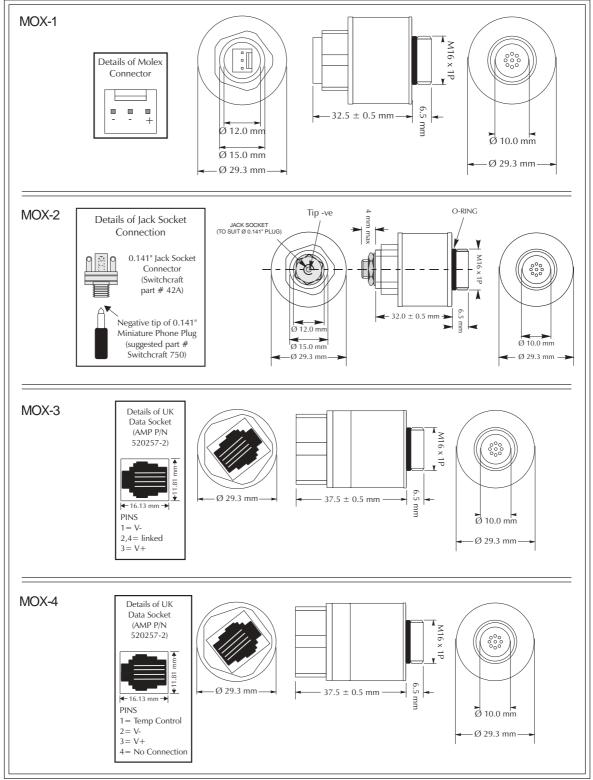
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14th January 2004

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N.B. All tolerances ±0.15mm unless otherwise stated

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Intended Use

These sensors are designed to be used to monitor the partial pressure of oxygen in anaesthesia, critical care, incubators and general Oxygen monitors.

Stabilisation time

Allow at least 15 minutes to stabilise in instrument before calibration.

Cleaning and Sterilisation

In case of contamination the sensor may be cleaned with distilled water and allowed to dry naturally. The sensor is not suitable for sterilisation by steam or exposure to chemicals such as ethylene oxide or hydrogen peroxide

Calibration Interval

These sensors are designed to have minimal drift over their useful lifetime however for maximun accuracy they should be calibrated in 100% Oxygen before use.

Test Gas	Error (%O ₂)
50% He/50% O ₂	<1%
80% N ₂ O/20% O ₂	+1 to +1.5%
4% Halothane/28.8% O ₂ /67.2% N ₂ O	+1.5% to 2%
5% Sevoflurane/28.5% O ₂ / 66.5% N ₂ O	+1 to +1.5%
5% Enflurane/28.5% O ₂ /66.5% N ₂ O	+1.2 to + 1.8%
5% lsoflurane/28.5% O ₂ /66.5% N ₂ O	+1.2 to 1.8%
5% CO ₂ / 28.5% O ₂ /66.5% N ₂ O	<1%

Cross-sensitivity

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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.

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