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 O₂

Range 0-1500mBar O₂

Signal in 100% O₃ 100±1%

> Resolution 1mBar O₂

 $1.5 \times 10^6 \% O_2$ hours at 20° C **Expected Operating Life**

0.8 x 106 % O₂ hours at 40°C

Response Time (air to $T_{90} < 15s$

100%O₂)

Linearity Linear 0-100% O₂

Zero signal in N₂ at 20°C <200µV

Operating Temp. Range -20°C to +50°C

±2% variation from 0-40°C **Temp. Compensation**

> **Pressure Range** 0.5-2.0Bar

Relative Humidity Range 0 to 99% non-condensing

Long Term Output Drift in Typically <5% over 1 year

100%O₂

Housing Material White ABS

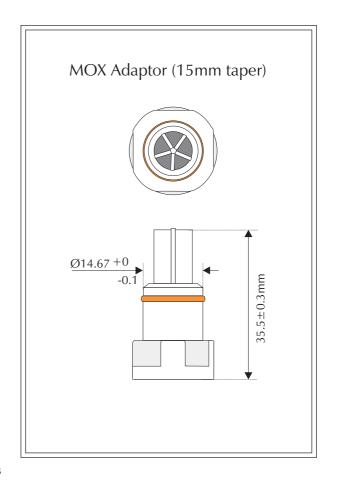
Sealed blister packaging **Packaging** Resistant to 100% N₂O N₂O Resistance

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)





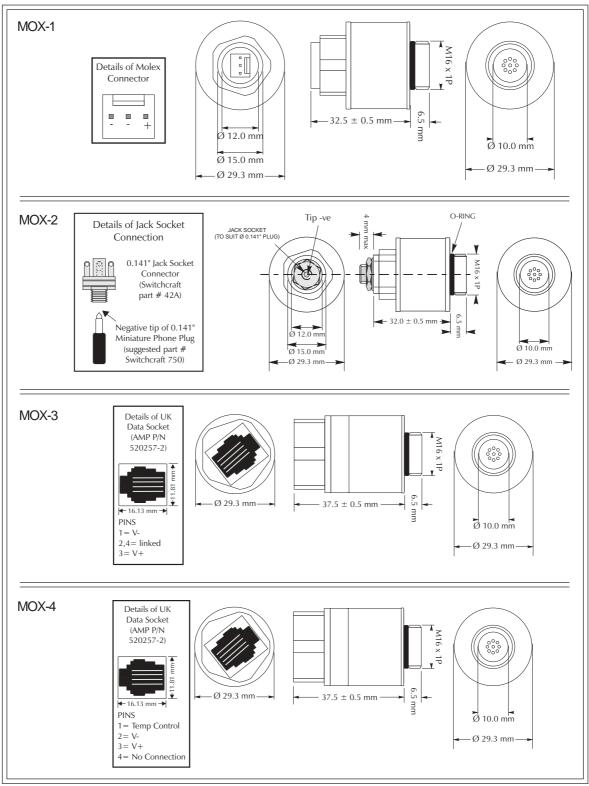
Sensor	Connections	Suggested Mating Parts
MOX-1	M16 thread, 3-pin molex header	MOLEX 22-01-2035 (3-way housing)
	(MOLEX 22-29-2031)	MOLEX 08-56-0110 (crimp terminals)
MOX-2	M16 thread, 0.141"/3.5mm mini phone jack	SWITCHCRAFT 750 mini phone jack
MOX-3	M16 thread, UK data socket AMP P/N 520257-2	
MOX-4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

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MOX Outline Dimensions



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.

Cross-sensitivity

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%

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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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