

Oxygen MediceL[®] Specification

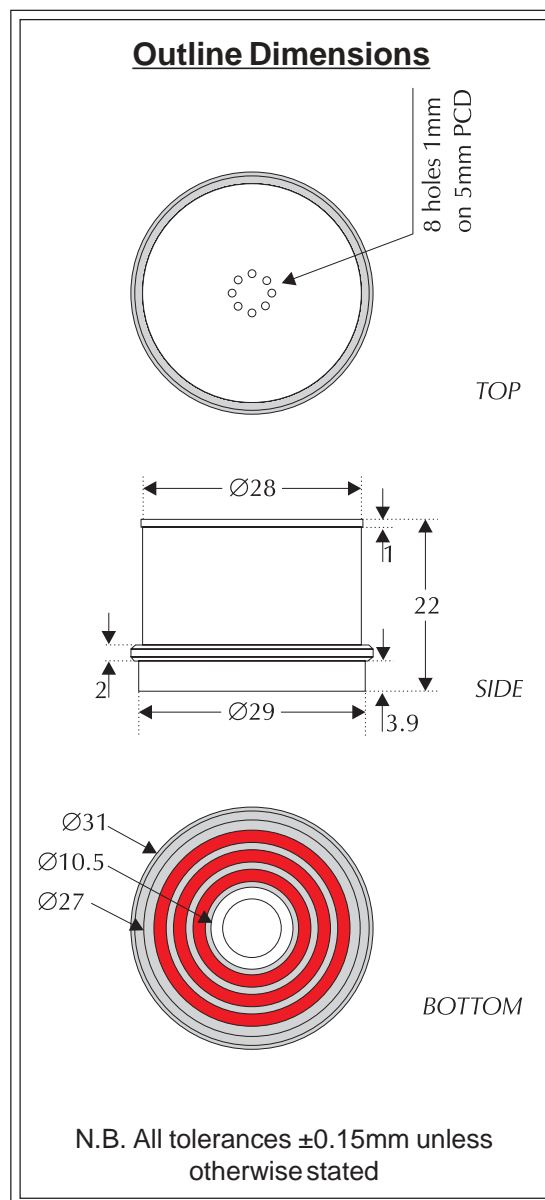


MOX-6 MediceL[®]

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 (see circuit)	11-15 mV with 300Ω external load resistance in 209mBar O ₂ @20°C
Range	0-1500mBar O ₂
Signal in 100% O₂	100±1%
Resolution	1mBar O ₂
Expected Operating Life	0.94 x 10 ⁶ % O ₂ hours@ 20°C 0.6 x 10 ⁶ % O ₂ hours@ 40°C
Operating Temp Range	-20°C to +50°C
Pressure Range	0.5-2.0Bar
Zero signal in N₂ at 20°C	<200 μV
Relative Humidity Range	0 to 99% non- condensing
N₂O Resistance	Resistant to 100% N ₂ O
Response Time(air to 100%O₂)	T ₉₀ < 15s
Long Term Output Drift (in 100%O₂)	<5% signal loss/year
Linearity	Linear 0-100% O ₂ (see note ¹)
Housing Material	White ABS
Packaging	Sealed blister packaging
Cross Sensitivity	Meets EN12598 requirements
Warranty Period	15 months from date of despatch (This amounts to a variation of condition 6 of our standard terms and conditions which otherwise apply)



Note 1: Use of a regression coefficient shows a best fit straight line better than 0.9995 when measured through the four data points N₂, 21% O₂, 60% O₂ and 100% O₂.



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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

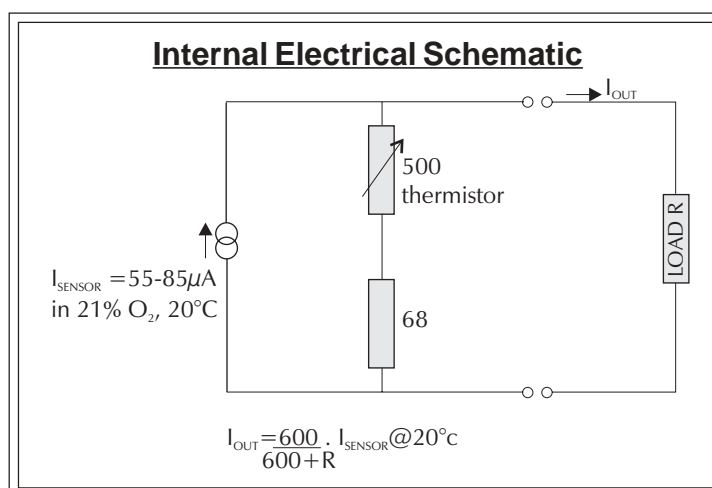
In case of contamination the sensor may be cleaned with distilled water and allowed to dry naturally. The sensor is not suitable for sterilisation by steam or exposure to chemicals such as ethylene oxide or hydrogen peroxide

Calibration Interval

These sensors are designed to have minimal drift over their useful lifetime however for maximum 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% Isoflurane/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.