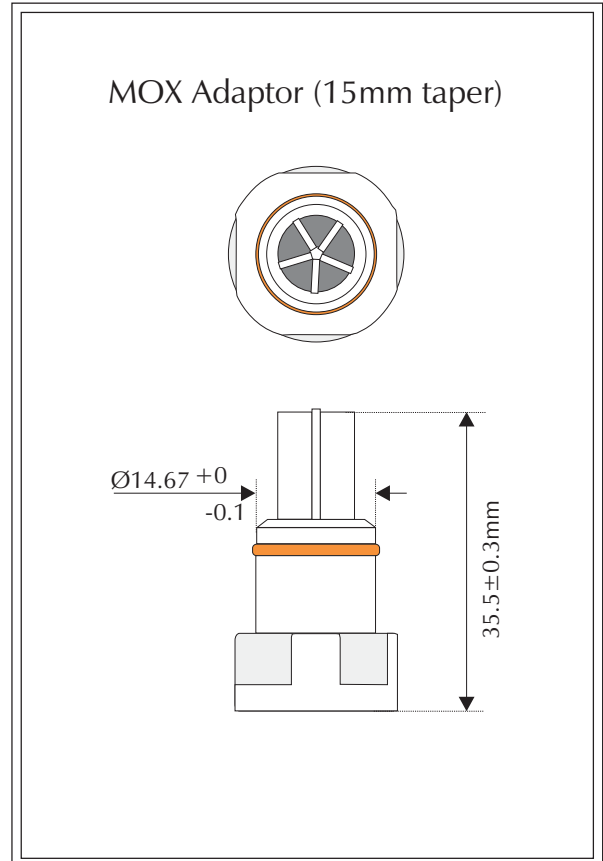


N.B. The specification is based on measurements made with cylinder gases using a flow rate of 100 mls min<sup>-1</sup>. Conditions at 20°C, 50%RH, and 1013mBar unless otherwise noted.

**Performance Characteristics**

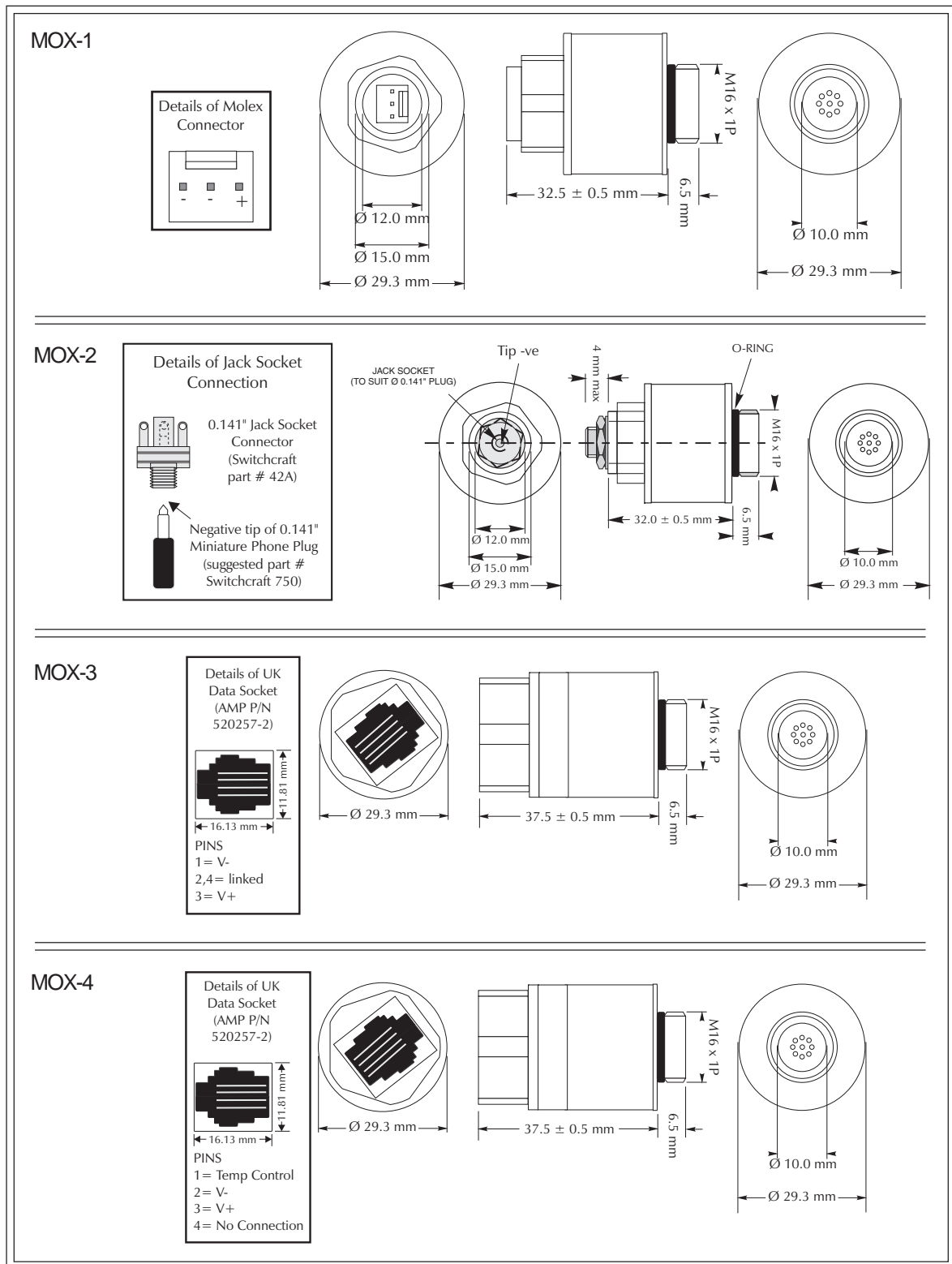
<b>Output</b>	9-13 mV in 210mBar O <sub>2</sub>
<b>Range</b>	0-1500mBarO <sub>2</sub>
<b>Signal in 100% O<sub>2</sub></b>	100±1%
<b>Resolution</b>	1mBarO <sub>2</sub>
<b>Expected Operating Life</b>	1.5 x 10 <sup>6</sup> % O <sub>2</sub> hours at 20°C 0.8 x 10 <sup>6</sup> % O <sub>2</sub> hours at 40°C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



This device has been licensed for sale in Canada. For confirmation see [www.mdall.ca](http://www.mdall.ca)

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	

## MOX Outline Dimensions



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

## 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 <sub>2</sub> )
50% He/50% O <sub>2</sub>	<1%
80% N <sub>2</sub> O/20% O <sub>2</sub>	+1 to +1.5%
4% Halothane/28.8% O <sub>2</sub> /67.2% N <sub>2</sub> O	+1.5% to 2%
5% Sevoflurane/28.5% O <sub>2</sub> / 66.5% N <sub>2</sub> O	+1 to +1.5%
5% Enflurane/28.5% O <sub>2</sub> /66.5% N <sub>2</sub> O	+1.2 to + 1.8%
5% Isoflurane/28.5% O <sub>2</sub> /66.5% N <sub>2</sub> O	+1.2 to 1.8%
5% CO <sub>2</sub> / 28.5% O <sub>2</sub> /66.5% N <sub>2</sub> 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.