



# 1100L Oxygen Analyser

The Rapidox 1100L is a cost-effective oxygen (O<sub>2</sub>) analyser fitted with an electrochemical oxygen gas sensor. Specifically designed to measure low ppm measurements of 1ppm to 1% oxygen.



Electrochemical sensors are ideal for ppm oxygen applications where VOC's, flammable gases, CO, H<sub>2</sub> or He are present in the gas sample. The Rapidox 1100L is ideal for applications such as manufacturing processes and glove boxes. Configuration of the analyser allows for the instrument to be panel mounted with the gas fittings at either the front or rear.

Other variations of the analyser include a three-channel multiplex version, which allows for three gas streams to be sampled from separate points. Gases can be analysed in sequence or at intervals set from the front keypad controls or software.

Please contact Cambridge Sensotec for further information or to discuss your requirements.



Though highly configurable to suit individual customer requirements, the Rapidox 1100 range possesses a number of standard features to enhance functionality.

- Low maintenance electrochemical sensor
- Fully configurable software
- Fast and accurate response
- Simple calibration procedure
- Fully programmable outputs
- Data logging
- Pump or ejector option
- Two programmable alarms
- Operates on worldwide mains voltage
- Password protection

## Applications



Chemicals



Gas



Medical



Combustion



Glove Boxes



Metal Heat Treatment



Emissions



Inert Gas Blanketing



PCB Production



Food



Manufacturing



Research & Development

## Accessories



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- 1 Calibration Kit
- 2 Multiplex Sampling System
- 3 Gas Recovery Bag
- 4 Thermal Printer
- 5 Calibration Service
- 6 Gas Filters

## Specification

O <sub>2</sub> Sensor Range	0-10,000ppm (0-1%)
O <sub>2</sub> Sensor Accuracy	±2% of reading
O <sub>2</sub> Sensor Response	<3 min from 10,000 to 1,000ppm, <10 min from 1,000 to 10ppm, <5hr from 10,000ppm to <1ppm
O <sub>2</sub> Sensor Life Expectancy	Approximately 2 years
Ambient Operating Pressure	600-1750mbar absolute
Ambient Operating Temperature	5°C to 35°C
Max. Sample Gas Temperature	50°C
Warm-up Time	5 minutes
Voltage	90-260 VAC, 50/60Hz
Voltage Outputs	0-10V, user programmable
Current Outputs	4-20mA linear, user programmable
Digital Outputs	RS232 (RS485 option available) Data streamed on demand. Modbus RTU/Ethernet
Calibration	Requires 1 or 2 user selectable gas compositions
Sample Connections	4mm ID/6mm OD nipple type. Rectus or Swagelok. Front or rear positioning
Display	16 x 2 character (9mm) back-lit LCD
Analyser Dimensions	Bench: 150mm(H) x 253mm(W) x 272mm(D), Panel: 300 x 4µ (177mm(H) x 300mm(W)
Weight	3.5kg (4kg with bezel)
Pump Option	Main type diaphragm pump. Variable speed 0-1.2 litres per minute
Ejector Option	Vacuum ejector fitted, running off inlet pressure
Alarms	Relay circuits, user programmable