

# Rapidox 1100L Oxygen Analyser

The Rapidox 1100L is a special low range oxygen (O<sub>2</sub>) analyser fitted with an electrochemical gas sensor. This analyser is specifically designed to measure low ppm measurements of 0.1ppm to 10,000ppm (1%) oxygen in gases where other sensors such as zirconia are unsuitable.



The special electrochemical sensor is available in both acid and alkaline formats depending on the pH of the gas. They are designed to work in ppm applications below 1% O<sub>2</sub> where VOCs, 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 and is the preferred instrument of choice for solder reflow where formic acid gas is used. Configuration of the analyser allows for the instrument to be panel mounted with the gas fittings at either the front or rear.



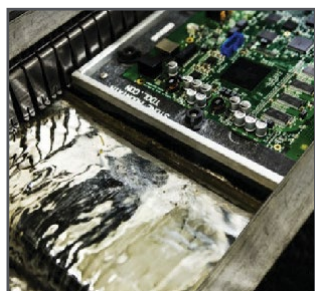
Other variations of the analyser include a three-channel multiplex version, which allows for three gas streams to be sampled from separate points. Gases can be analysed in sequence or at intervals set from the front keypad controls or software.

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 & 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



Combustion



Emissions



Food



Gas



Glove Boxes



Inert Gas Blanketing



Manufacturing



Medical



Metal Heat Treatment



PCB Production



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

O2 Sensor Range	0-10,000ppm (0-1%)
O2 Sensor Accuracy	±2% of reading
O2 Sensor Response	<3 min from 10,000 to 1,000ppm, <10 min from 1,000 to 10ppm, <5hr from 10,000ppm to <1ppm
O2 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
Display	20 x 4 character OLED
Sample Connections	4mm ID/6mm OD nipple type. Rectus or Swagelok. Front or rear positioning
Analyser Dimensions	Bench: 150mm(H) x 247mm(W) x 250mm(D), Panel: 4U 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