



# Rapidox 2100 Oxygen Analyser

The Rapidox 2100 oxygen analyser was one of the first gas analysers manufactured by the company when it was established in 2000; due to its robust design many are still in service today!

Fitted with a separate zirconia oxygen sensor connected via a 2m cable (other lengths available), the Rapidox 2100 provides fast and accurate oxygen analysis over the range 1ppm to 100%. The sensor allows for continuous on-line oxygen gas analysis, with a typical response time of approximately 5 seconds.

A range of optional pressure, vacuum and dew-point fittings allow the Rapidox to be connected to apparatus in most applications, conveniently and quickly. Readings are displayed and data logged simultaneously with the oxygen measurements.

Available in a bench mounted configuration, or with a bezel front panel to incorporate the instrument within a rack. Additionally the Rapidox 2100 can be supplied within a wall mountable, IP65 weatherproof housing. The zirconia sensor can then be positioned remotely up to 26 metres away either in a separate cabinet or as a standalone sensor.

For customers requiring seamless integration into their product or process, the Rapidox can be supplied as an OEM solution.



## Features

- Ideal for low ppm oxygen analysis in high temperature vacuum applications
- Easy calibration procedure
- Low maintenance and long life sensor expectancy
- Two fully programmable alarm settings: high and low, open or closed relays
- Digital outputs and fully programmable analogue outputs
- Software package includes full control of the analyser, live graphing and MS Excel compatible data-logging
- Operates on any worldwide mains voltage (90-260VAC)
- Various product configurations available, including OEM and bezel mounted
- Type K thermocouple input allows for independent temperature measurements
- Password protection feature

## Applications



**Additive Manufacturing**



**Gas**



**Manufacturing**



**Chemicals**



**Glove Boxes**



**Metal Heat Treatment**



**Combustion**

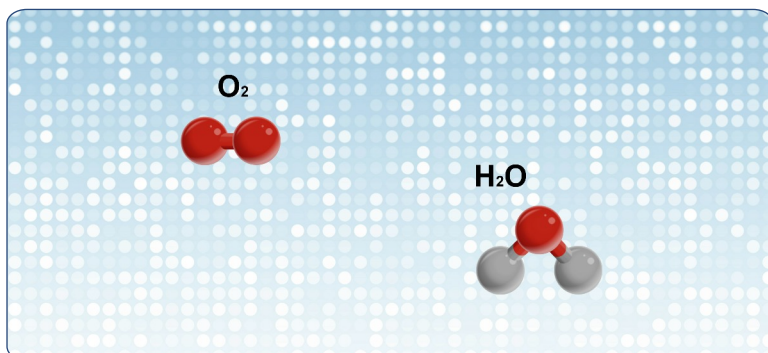


**Inert Gas Blanketing**



**Research & Development**

## Gases



## Specification

<b>O<sub>2</sub> Zirconia Sensor</b>	10E-20ppm to 100%
<b>H<sub>2</sub>O Sensor</b>	-100°C to +20°C dp. Supplied on a 2m cable with sample chamber
<b>Pressure Sensor</b>	0-5 and 0-10 bar gauge standard. Supplied on a 2m cable. Other ranges available
<b>Thermocouple</b>	Type K, range 0-1250°C, ±1°C
<b>Sensor connections</b>	Front or rear connections available
<b>Gas connections</b>	4mm ID / 6mm OD nipple type Other connections available
<b>Warm-up time</b>	3-5 minutes at 20°C
<b>Housing temperature</b>	150°C to 200°C
<b>Sensor Cable</b>	2m high temperature, PVC sheathed cable Fully shielded with a quick release plug Other lengths are available
<b>Voltage outputs</b>	0-5V linear, user programmable
<b>Digital outputs</b>	RS232 (RS485 option available): data streamed on demand
<b>Current outputs</b>	4-20mA linear, user programmable
<b>Max gas temperature</b>	600°C
<b>Max gas inlet pressure</b>	10 Bar gauge (200 bar burst pressure)
<b>Min working pressure</b>	Vacuum tight down 10E-4 Torr in helium
<b>Operating temperature</b>	5°C to 35°C
<b>Display</b>	16 x 2 character (9mm) back-lit LCD
<b>Voltage</b>	90-260VAC, 50/60Hz
<b>Analyser dimensions</b>	Bench: 150mm(H) x 263mm(W) x 250mm(D) Panel: 300 x 4µ (177mm(H) x 300mm(W)) Wall: 260mm(H) x 314mm(W) x 129mm(D)
<b>Weight</b>	4kg (Including sensor)

## Accessories

### Calibration Gas and Servicing



### Rapidox Gas Recovery Bag



### Heavy-Duty Peli Case



### Vacuum Fittings



### Filtration Options



Please contact Cambridge Sensotec for further information



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Due to continuous product development, necessary changes to specifications may be made without prior notice. Issue no: V1 2016

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