

1100Z Oxygen Analyser

The Rapidox 1100Z is a cost-effective oxygen (O₂) analyser fitted with a zirconia oxygen gas sensor. Specifically designed to measure percent measurements in the 0-30% oxygen range.



Zirconia oxygen sensors are common solutions for providing fast and accurate gas analysis over the low ppm oxygen range. They are particularly suitable for monitoring inert atmospheres and aggressive industrial applications within manufacturing processes.

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.



The Rapidox 1100 range can also be used to control an external proportional flow control valve (PFC) or a single solenoid relay using a remote signal output (RSO). These are exceptionally useful within inert gas blanketing applications, where the analyser can regulate the level of gas based on the measurement of oxygen via the PFC or RSO control function. Finally, the Rapidox 1100 complies with EMC Directive 2004 / 108 / EC. UL/ETL Certification Number: UL-61010-1.

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 zirconia 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



1



2



3



4



5



6

1 Calibration Kit

2 Multiplex Sampling System

3 Gas Recovery Bag

4 Thermal Printer

5 Calibration Service

6 Gas Filters

Specification

O ₂ Sensor Range	1ppm-30%
O ₂ Sensor Accuracy & Response	±1% of the actual oxygen concentration. Approximately 4 sec for a 90% response
O ₂ Sensor Life Expectancy	>17,500 hours
Ambient Operating Pressure	900-1100mbar absolute
Ambient Operating Temperature	5°C to 35°C
Max. Sample Gas Pressure	±1000mbar
Max. Sample Gas Temperature	60°C
Warm-up Time	1-2 minutes
Supply 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 up to 5 user selectable gas compositions
Sample Connections	4mm ID/6mm OD nipple type. Rectus or Swagelok. Front or rear positioning
Display	20 x 4 character OLED
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