



Rapidox 1100Z Oxygen Analyzer

# RAPIDOX 1100Z

The Rapidox 1100Z is a cost-effective oxygen (O<sub>2</sub>) analyser fitted with a zirconia oxygen gas sensor. Specifically designed to measure percent measurements in the 0-30% oxygen range.



[www.amperis.com](http://www.amperis.com)

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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.

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

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## Applications



Chemicals



Combustion



Emissions



Food



Gas



Glove Boxes



Inert Gas Blanketing



Manufacturing



Medical



Metal Heat Treatment



PCB Production



Research & Development

## Accessories



1



2



3



4



5



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

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<b>Specification</b>	
<b>O<sub>2</sub> Sensor Range</b>	1ppm-30%
<b>O<sub>2</sub> Sensor Accuracy &amp; Response</b>	±1% of the actual oxygen concentration. Approximately 4 sec for a 90% response
<b>O<sub>2</sub> Sensor Life Expectancy</b>	>17,500 hours
<b>Ambient Operating Pressure</b>	900-1100mbar absolute
<b>Ambient Operating Temperature</b>	5° C to 35° C
<b>Max. Sample Gas Pressure</b>	±1000mbar
<b>Max. Sample Gas Temperature</b>	60° C
<b>Warm-up Time</b>	1-2 minutes
<b>Voltage</b>	90-260 VAC, 50/60Hz
<b>Voltage Outputs</b>	0-10V, user programmable
<b>Current Outputs</b>	4-20mA linear, user programmable
<b>Digital Outputs</b>	RS232 (RS485 option available) Data streamed on demand. Modbus RTU/Ethernet
<b>Calibration</b>	Requires up to 5 user selectable gas compositions
<b>Sample Connections</b>	4mm ID/6mm OD nipple type. Rectus or Swagelok. Front or rear positioning
<b>Display</b>	20 x 4 character OLED
<b>Analyser Dimensions</b>	Bench: 150mm(H) x 253mm(W) x 272mm(D), Panel: 300 x 4µ (177mm(H) x 300mm(W))
<b>Weight</b>	3.5kg (4kg with bezel)
<b>Pump Option</b>	Main type diaphragm pump. Variable speed 0-1.2 litres per minute
<b>Ejector Option</b>	Vacuum ejector fitted, running off inlet pressure
<b>Alarms</b>	Relay circuits, user programmable

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