



# Rapidox 3100 Gas Analyser

The Rapidox 3100 range includes precision single, dual and triple gas analysis instruments providing powerful functionality and rich features.

Designed for process, research and development applications, this gas analyser has proven very popular with universities and research institutes worldwide.

Typical gas analysis configurations include a combination of oxygen and another gas. However, other compatible gas sensors arrangements can be specified to suit the application.




An internal pressure sensor compensates for small changes in gas pressure to ensure the readings remain stable. The flow of gas can be adjusted with the flow gauge/needle valve on the front panel.

An optional powerful long-life pump draws a gas sample at a flow rate set by the user between 0-1 litres per minute. Alternatively the pump can be independently switched off and the unit operated under flowing gas conditions.

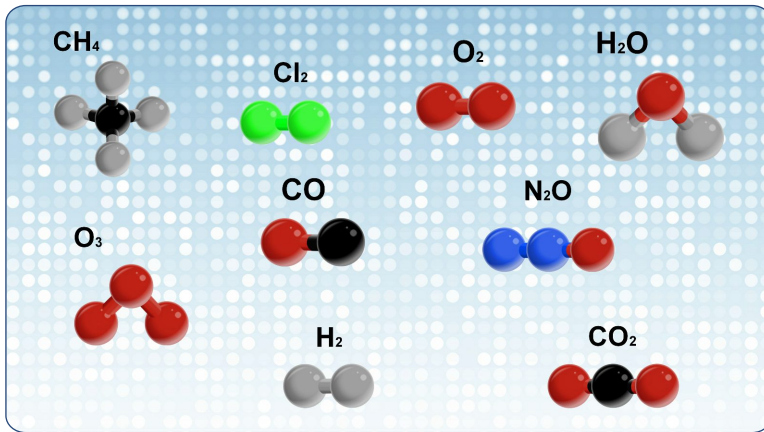
## Features

- Fast and accurate response, enhanced by internal pressure sensor
- 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 Excel compatible data-logging
- Operates on any worldwide mains voltage (90-260VAC)
- Optional variable speed pump
- Type K thermocouple input allows for independent temperature measurements
- Password protection feature

## Applications

 <b>Biogas</b>	 <b>Gas</b>	 <b>Medical &amp; Pharmaceutical</b>
 <b>Chemicals</b>	 <b>Glove Boxes</b>	 <b>Metal Heat Treatment</b>
 <b>Combustion</b>	 <b>O<sub>2</sub> Inert Gas Blanketing</b>	 <b>Research &amp; Development</b>
 <b>Food</b>	 <b>Manufacturing</b>	 <b>Syngas</b>

## Gases



## Specification

Temperature sensor	Type K thermocouple, range 0-1250°C, ±1°C
Sample connections	4mm ID / 6mm OD nipple type Rectus or Swagelock Front or rear positioning.
Warm-up time	3-5 minutes at 20°C
Voltage outputs	0-5V linear, user programmable
Current outputs	4-20mA linear, user programmable
Digital outputs	RS232 (RS485 option available): data streamed on demand
Max gas temperature	40°C
Max gas inlet pressure	1 Bar gauge
Operating temperature	5°C to 35°C
Optional pump	0-1 litres per minute, user selectable
Display	Single and dual gas: 16 x 2 character (9mm) back-lit LCD Triple gas: 20 x 4 character (9mm) back-lit LCD
Voltage	90-260VAC, 50/60Hz
Analyser dimensions	150mm(H) x 350mm(W) x 263mm(D)
19" Rack Dimensions	132mm(H) x 482mm(W) x 365mm(D)
Weight	4kg (Multiplex: 5kg)

## Accessories

### Calibration Gas and Servicing



### Rapidox Gas Recovery Bag



### 19" Rack Mounted Option



### Rapidox Multiplex Sampling System



### Filtration Options



Please contact Cambridge Sensotec for further information



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Due to continuous product development,  
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