



# Rapidox 7100 Gas Analyser

The Rapidox 7100 Multigas Analyser is a high specification instrument designed for the analysis, control and monitoring of process gas in a wide range of industries.

Up to six gases are simultaneously measured using a range of high precision gas sensors; each sensor is specially designed and calibrated to avoid any cross interference effects with the background process gas.

When configured for applications where the gases are energy containing (e.g. Biogas, Syngas) the calorific value of the gas sample is determined using thermodynamic calculations and simultaneously logged and displayed on-screen.

An optional pump enables two modes of operations. For samples that are taken from a gas source at atmospheric pressure or below, the pump is activated to draw a sample through the analyser.

Alternatively the pump can be deactivated when sampling from a source at greater than atmospheric, allowing the gas to flow through the analyser. Gas flow is regulated manually via a rotary knob on the fascia and displayed electronically on the screen.



## Features

- Modular design allows for bespoke sensor combination upon request
- Housed within a 19" (482mm) enclosure for convenient mounting into industry standard test equipment racks
- 7" (180mm) full-colour touch screen interface with soft menu keys
- Permanent or sampling modes available
- All data is continuously logged and Excel compatible data can be downloaded via a USB memory stick
- Operates on any worldwide mains voltage (90-260VAC)
- Fully programmable alarm settings
- Multi-language (Please contact for details)
- Password protection feature

## Applications



**Biogas**



**Chemicals**



**Combustion**



**Emissions**



**Gas**



**Glove Boxes**



**O<sub>2</sub> Inert Gas Blanketing**



**Manufacturing**



**Medical & Pharmaceutical**



**Metal Heat Treatment**

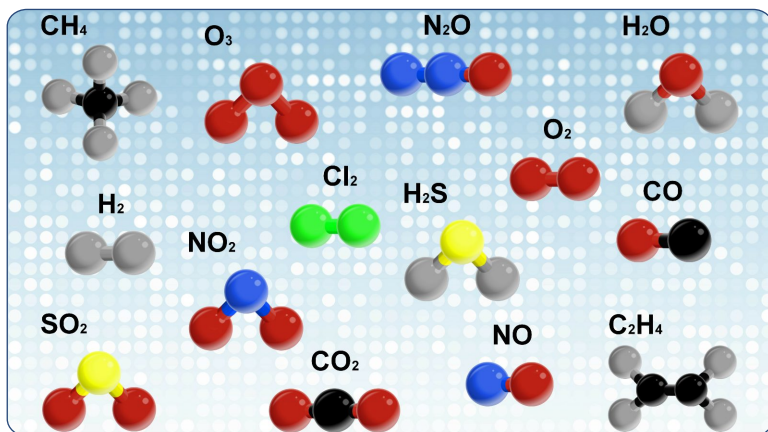


**Research & Development**



**Syngas**

## Gases



## Specification

Sample connections	4mm ID / 6mm OD Rectus or Swagelock fittings on rear
Warm-up time	3-4 minutes at 20°C
Measurement time	Approximately 2-4 minutes (dependant on sensor configuration)
Voltage outputs	0-10V linear, user programmable
Current outputs	4-20mA linear, user programmable
Digital outputs	RS232 (RS485 option available): data streamed on demand
Data output	Excel compatible data via USB memory stick
Data storage	4GB internal data storage allowing for approximately 1 year of continuous monitoring
Max inlet temperature	50°C
Max inlet pressure	10 Bar gauge
Operating temperature	-10°C to 40°C
Sample pump	0-1 litres per minute, user selectable
Calibration	Zero and span calibration with two user-selectable gases
Voltage	90-260VAC, 50/60Hz
Display	7" (180mm) full-colour LCD with touch screen operation
Analyser dimensions	132mm(H) x 482mm(W) x 365mm(D)
Weight	6.5kg

## Accessories

### Calibration Gas and Servicing



### Rapidox Gas Recovery Bag



### Rapidox Multiplex Sampling System



### 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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