rapidox

## **3100 Multigas Analyser**

The Rapidox 3100 range includes precision single, dual and triple gas analysis instruments providing powerful functionality and extensive 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. Measurable gases include oxygen (O<sub>2</sub>), carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), hydrogen (H<sub>2</sub>), moisture (H<sub>2</sub>O), ethylene (C<sub>2</sub>H<sub>4</sub>), chlorine (Cl<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), nitric oxide (NO) and ozone (O<sub>3</sub>) 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 longlife 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.

Standard features on all models include two fully programmable alarm circuits (volt free contacts), programmable analogue outputs (0-10V and 4-20mA), easy calibration (user selectable gases), RS232 communications and complete data-logging software. Type K thermocouple input is included for independent temperature measurements up to 1250°C, with readings displayed and data logged simultaneously with the gas analysis.

Please contact Cambridge Sensotec for further information or to discuss your requirements.

Though highly configurable to suit individual customer requirements, the Rapidox 3100 range possesses a number of standard features to enhance functionality.

- Bespoke sensor combination
- Fully configurable software
- Fast and accurate response
- Simple calibration procedure
- Fully programmable outputs
- Optional variable speed pump
- Data logging
- Type K thermocouple
- Two programmable alarms
- Operates on worldwide mains voltage
- Password protection

## **Applications**



Specification	
Ambient Operating Temperature	5°C to 35°C
Warm-up Time	2-5 minutes at 20°C as standard
Temperature Sensor	0-1250°C range Type K thermocouple. ±1°C accuracy
Voltage	90-260 VAC, 50/60Hz
Voltage Outputs	0-5V, user programmable
Current Outputs	4-20mA linear, user programmable
Digital Outputs	RS232 (RS485 option available). Data streamed on demand
Sample Connections	4mm ID/6mm OD nipple type. Rectus or Swagelok. Front or rear positioning
Display	Singla and Dual analysers: 16 x 2 character (9mm) back-lit LCD Triple analysers: 20 x 4 character (9mm) back-lit LCD
Analyser Dimensions	150mm(H) x 350mm(W) x 263mm(D)
Weight	4.6kg as standard
Pump Option	0-1 litres per minute, user-selectable



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Cambridge Sensotec Limited. Unit 29 Stephenson Road, St Ives, Cambs, PE27 3WJ, United Kingdom Due to continuous product development necessary changes to specifications may be made without prior notice. Issue no: V1-2018