



# 1100A Carbon Dioxide Gas Analyser



The Rapidox 1100A is a cost-effective carbon dioxide (CO<sub>2</sub>) gas analyser fitted with a durable infra-red sensor. Specifically designed to analyse CO<sub>2</sub> with a choice of sensors for either low ppm or high percent measurements, the Rapidox 1100A is ideal for applications such as gas production or emissions.

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. 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).

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.

- Long life infra-red 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



Combustion



Gas



Metal Heat Treatment



Emissions



Manufacturing



Research & Development

## Accessories



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

## Specification

CO2 Sensor Range	0-500ppm, 0-1000ppm, 0-2000ppm, 0-3000ppm, 0-5,000ppm, 0-1%, 0-3%, 0-5%, 0-10%, 0-30% or 0-100%
CO2 Sensor Accuracy & Response	±2% of full scale. Approximately 20 sec for a 90% response
CO2 Sensor Life Expectancy	>5 years
Ambient Operating Pressure	800-1200mbar absolute
Ambient Operating Temperature	5°C to 35°C
Max. Sample Gas Pressure	500-1500mbar absolute
Max Gas Temperature	50°C
Warm-up Time	5 minutes
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 2 user selectable gas compositions
Sample Connections	4mm ID/6mm OD nipple type. Rectus or Swagelok. Front or rear positioning
Display	16 x 2 character (9mm) back-lit LCD
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