

## RAPIDOX 7100 MULTIGAS ANALYZER



## RAPIDOX 7100

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.

**amperis**

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Up to six gases are simultaneously measured using a range of high precision gas sensors; each sensor is specifically designed and calibrated to avoid any cross-interference effects with the background process gas. Measurable gases include oxygen (O<sub>2</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), ozone (O<sub>3</sub>), moisture (H<sub>2</sub>O), hydrogen (H<sub>2</sub>), hydrogen sulphide (H<sub>2</sub>S), nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), sulphur dioxide (SO<sub>2</sub>), chlorine (Cl<sub>2</sub>), methane (CH<sub>4</sub>), ethylene (C<sub>2</sub>H<sub>4</sub>) and many more. View the sensor matrix for more information.

When configured for applications where the gases contain energy (e.g. Biogas, Syngas) the calorific value of the gas sample is determined using thermodynamic calculations and simultaneously logged and displayed onscreen. Data is downloadable via USB memory stick, and 4GB of internal data storage allowance allows for approximately one year of continuous monitoring.

An optional pump enables two modes of operation. 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 a greater atmospheric pressure, 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.

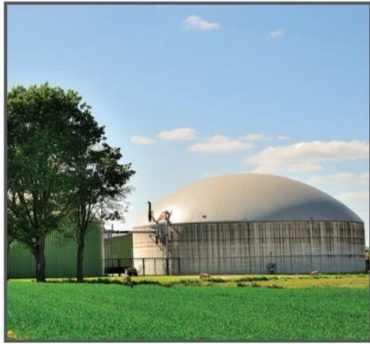
Available in both a 19" rack mountable case or a benchtop version.

Though highly configurable to suit individual customer requirements, the Rapidox 7100 range possesses a number of standard features to enhance functionality.

- Bespoke sensor combination
- 7" full-colour touchscreen
- 19" rack mountable enclosure or benchtop
- Continuous data logging

- Multi-language
- Six programmable alarms
- Operates on worldwide mains voltage
- Password protection

## Applications



Biogas



Chemicals



Combustion



Food



Gas



Glove Boxes



Inert Gas Blanketing



Manufacturing



Medical



Metal Heat Treatment



Research & Development



Syngas

## Accessories



1



2



3



4



5



6

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

SPECIFICATION	
<b>Voltage</b>	90-260 VAC, 50/60Hz
<b>Analyzer Dimensions</b>	Rack Mount: 132mm(H) x 482mm(W) x 365mm(D) Benchtop: 180mm (H) x 570mm (W) x 345mm (D)
<b>Weight</b>	Rack Mount: 6.5kg Benchtop: 6.5kg
<b>Warm-up time</b>	3-4 minutes at 20°C
<b>Normal Operating Conditions</b>	Temperature 0°C to 40°C Humidity 10 - 90% RH Pressure 900 to 1100 mbar absolute
<b>Display</b>	7" (180mm) full-colour LCD with touchscreen operation; resolution 0.01ppm or 0.01%
<b>Sample Connections</b>	6mm OD or 1/4" Swagelok fittings. Rear positioning
<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>Data Output</b>	Excel compatible data via USB memory stick
<b>Alarms</b>	Relay circuits, user programmable
<b>Sampling</b>	Fixed or continuous sampling modes
<b>Calibration</b>	Calibration by the user using zero and span gases



