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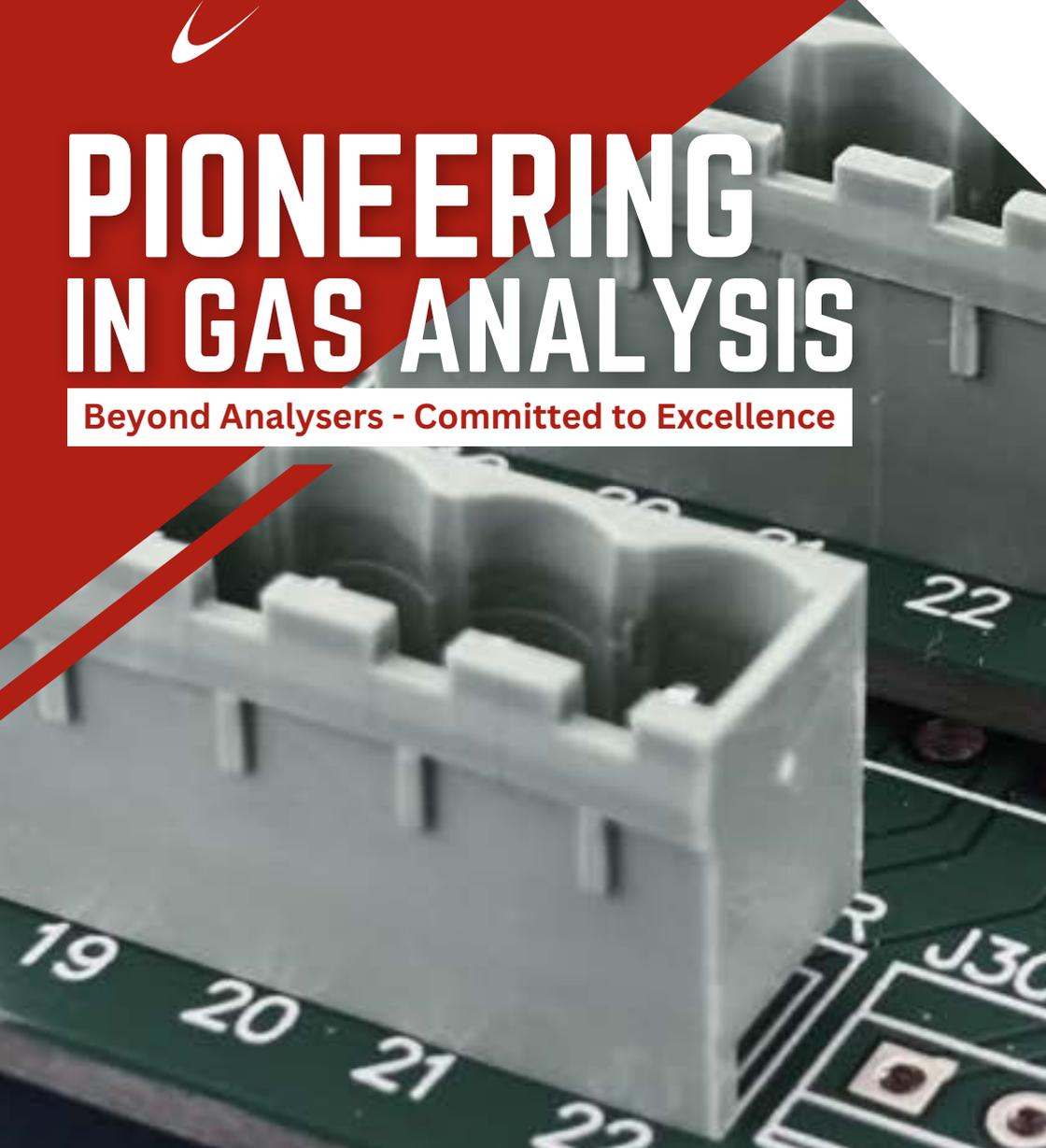
PRODUCT BROCHURE

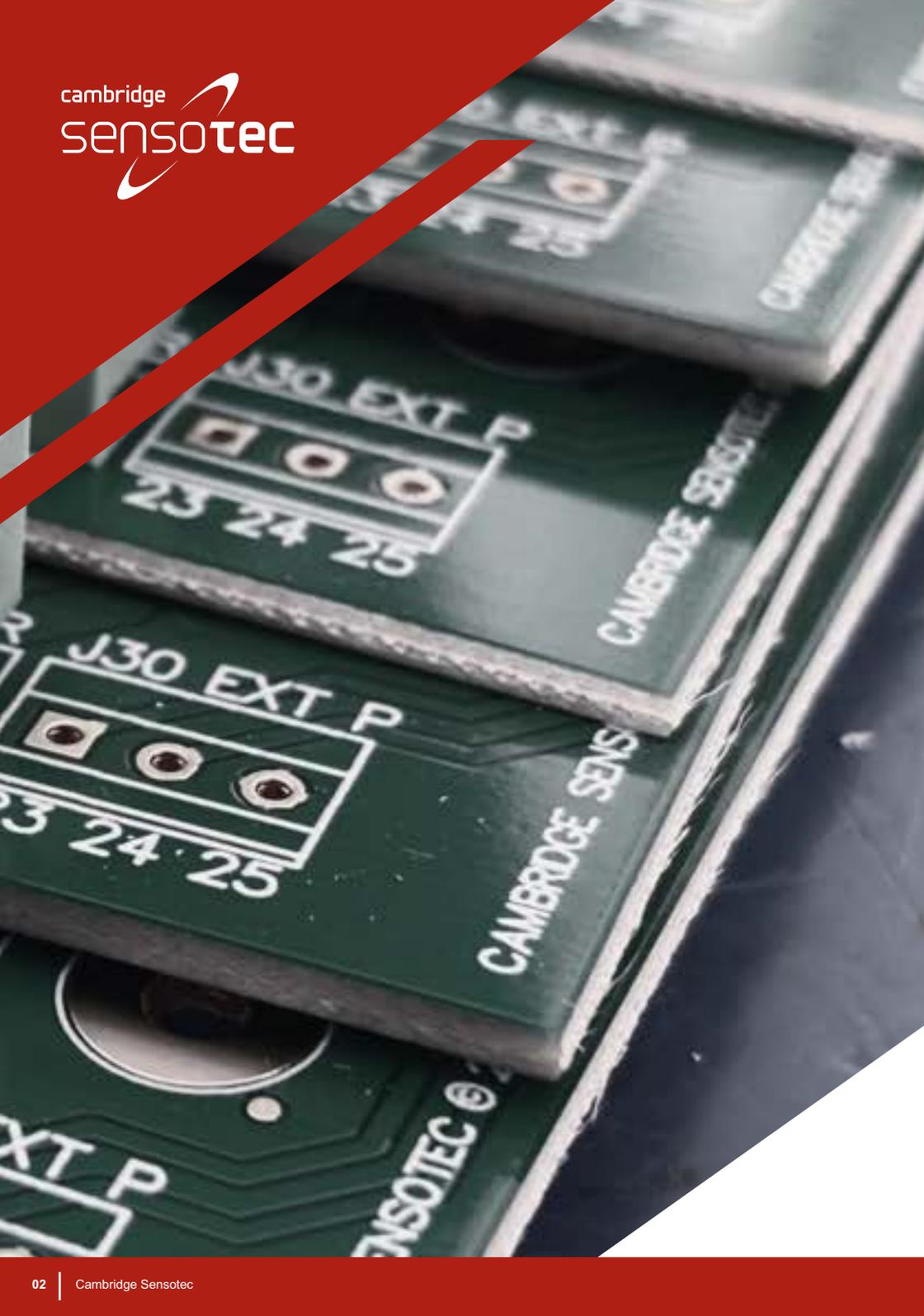




PIONEERING IN GAS ANALYSIS

Beyond Analysers - Committed to Excellence







Luke Shields
Managing Director



Mike Parish
Sales & Marketing
Director



Layla Greenhall
Finance Director



Nigel Gregg
Director of Research

Mark Swetnam, Donald Kings, and Victor Stekly founded Cambridge Sensotec in 2000, driven by their shared passion for innovation in gas analysis.

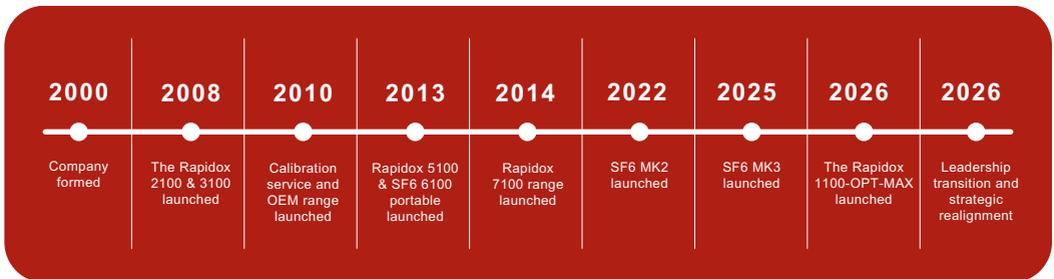
Today, the company is led by **Managing Director, Luke Shields**, whose technical background and long-standing experience within the business guide its strategic direction and continued evolution.

Sales and Marketing Director, Mike Parish, leads the company’s commercial strategy, strengthening global partnerships and driving sustainable revenue growth across key markets.

Finance Director, Layla Greenhall, oversees financial governance and operational efficiency, ensuring robust processes that support long-term stability and scalable growth.

Director of Research, Nigel Gregg, provides technical leadership, driving innovation in sensor and analyser development and ensuring the company remains at the forefront of gas analysis technology.

Together, the leadership team builds on the founders’ vision, advancing Cambridge Sensotec’s position as a trusted global leader in gas analysis solutions.

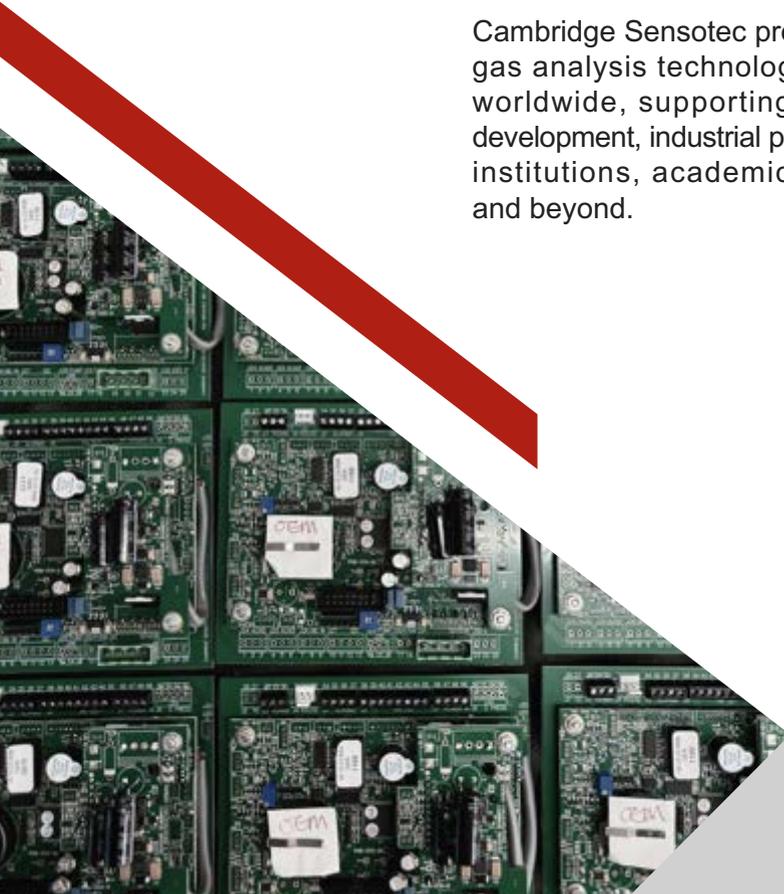


WHY CHOOSE US?

We combine world-class expertise with innovative gas analysis solutions tailored to your exact requirements.

With over two decades of experience, we deliver precision, reliability, and exceptional service across a wide range of industries and applications.

Cambridge Sensotec provides advanced gas analysis technology to customers worldwide, supporting research and development, industrial processes, scientific institutions, academic environments, and beyond.



ADVANCING EXCELLENCE

Customer-Led Solutions

- We engage closely with our clients to define precise, application-specific solutions.
- Precision-built, bespoke gas analysis solutions.

Dedicated Support

- Responsive, expert after-sales service.
- Rapid technical assistance when you need it most.

Expert Calibration

- For maintaining peak performance and long-term reliability of your analyser.
- Ensures consistent accuracy you can trust.

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PRODUCT OVERVIEW

RAPIDOX 1100 SERIES

Single Gas Analyser



Choice of Zirconia, Electrochemical or Optical O2 sensor technology meaning more flexibility for the user

Key Features

- Measuring ppm levels up to 100% gas
- O₂, CO₂, CO, CH₄, H₂, He, Ar, Zirconia, EC, IR & TCD sensors
- Three-channel multiplex option available
- Low maintenance and long-life sensor expectancy



Why Rapidox 1100?

"We have used their gas analysis technology in our welding gloveboxes for many years to give our products the cutting edge. We would highly recommend Cambridge Sensotec not only for their product quality, but also their after sales service."

Ricky Hart, Weldlogic Europe Ltd

Specifications

Variations	Available gas sensors – O ₂ , CO ₂ , CO, CH ₄ , H ₂ , He and Ar Stainless steel IP54 case available
Display	20 x 4 character OLED display
Sensor Range	1ppm to 100% depending on sensor type
Alarms	Alarms with latching option to align with standard equipment features
Pump	Long-life diaphragm pump, variable speed 0-1.2 litres per minute
Input/Output Specifications	<ul style="list-style-type: none">• 0-10V / 4-20mA linear, user-programmable• RS232 (RS485 option available), with data streamed on demand• Modbus RTU / Ethernet

Key Applications:

- Glove Boxes
- Welding
- Monitoring Inert Atmospheres
- Solder Reflow Ovens
- Additive Manufacturing
- Metal Heat Treatment

*other applications relevant

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RAPIDOX 2100 SERIES

Remote Sensor Gas Analyser



Key Features

- Zirconia sensor on remote cable
- Metal manifold or vacuum coupling
- Type K thermocouple sensor included
- Capable of multiple measurements
- Electrochemical and Optical sensor options
- Optional pressure, vacuum or dewpoint sensors



Why Our Analysers?

"I've been using several Rapidox gas analyzers regularly since I joined Los Alamos National laboratory. They are excellent with our high-temperature furnaces compared to others I've tried. We have very specific requirements as we work in the 10^{-8} ppm to 10^{-18} ppm O₂ range."

Michal Pate, Los Alamos National Laboratory

Specifications

Variations	Zirconia, Electrochemical, Optical sensor and Special forming gas (FGA) version
Display	20 x 4 character OLED display
Sensor Range	10^{-20} ppm to 30% O_2 as standard, extended to 100% O_2 in high partial pressure applications. 10^{-30} ppm extended range available
Alarms	Alarms with latching option to align with standard equipment features
Software	Bespoke live results via on-screen graphs or Excel format
Input/Output Specifications	<ul style="list-style-type: none">• 0-5V / 4-20mA linear, user-programmable• RS232 (RS485 option available), with data streamed on demand• Modbus RTU / Ethernet

Key Applications:

- Glove Boxes
- Research & Development
- Manufacturing
- Chemicals
- Additive Manufacturing
- Metal Heat Treatment

*other applications relevant

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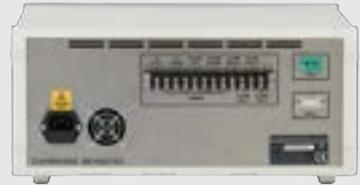
RAPIDOX 3100 SERIES

Multi-Gas Analyser



Key Features

- Single, dual, and triple gas analysis
- A bench version or a 19" rack-mounted
- Excel-compatible format
- Independent temperature measurements
- Flow gauge/needle valve



Understanding Your Needs First:

Cambridge Sensotec provides invaluable support, both before and after purchase, with unmatched expertise in addressing our specific needs. Their readiness to share crucial technical information has been vital, improving our understanding of sensor and system communication. Their delivery of customized firmware ensures seamless communication with our system's PLC, complementing the development of the standard sensor.

Adam Steinmark, Early Charm

Specifications

Variations	Up to three measurable gases from: O ₂ , CO ₂ , CO, H ₂ , Cl ₂ , N ₂ O, CH ₄ , NO, NO ₂ , C ₂ H ₄ , O ₃ , H ₂ S, He, NH ₃ , HF and SO ₂
Display	20 x 4 character OLED display
Pump	Long-life diaphragm pump variable speed 0-1.2 litres per minute
Alarms	Alarms with latching option to align with standard equipment features
Flow Gauge	An adjustable external flow gauge
Input/Output Specifications	<ul style="list-style-type: none">• 0-10V / 4-20mA linear, user-programmable• RS232 (RS485 option available), with data streamed on demand• Modbus RTU / Ethernet

Key Applications:

- Biogas & Syngas
 - Glove Boxes
 - Metal Heat Treatment
 - Food
 - Medical
 - Manufacturing
- *other applications relevant

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RAPIDOX 5100 SERIES

Portable Multigas Analyser



Key Features

- Up to 8hr lithium battery life
- Housed in a heavy-duty IP66 case
- Measures up to 6 gases
- Thermal printer
- Live continuous test results
- Excel & USB compatible
- Biogas & Syngas



Related Accessories

Sample Probes

Filters

Specifications

Variations	Measurable gases: O ₂ , CO ₂ , CO, H ₂ , H ₂ S, C ₂ H ₄ , H ₂ O, CH ₄ , SO ₂ , Cl ₂ , NO, NO ₂ , O ₃ , He, NH ₃ and VOCs
Display	7" (180mm) full-colour LCD with touchscreen operation
Data	4 GB internal data storage, exportable Excel-compatible data via USB memory stick
Dimensions	180mm (H) x 480mm (W) x 360mm (D)
Weight	7 kg without accessories
Battery Life	Up to 8 hours lithium battery use with 4-6 hours charging time

Key Applications:

- Biogas & Syngas
 - Glove Boxes
 - Metal Heat Treatment
 - Food
 - Medical
 - Manufacturing
- *other applications relevant

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RAPIDOX 6100 SERIES

Zero Emissions SF₆ Analyser



Key Features

- Editable test locations and user names
- Housed in a heavy-duty IP66 case
- Measures up to 8 gases
- Zero emissions with pumpback
- Thermal printer
- Live continuous test results
- Excel & USB compatible



Related Accessories

Gas Recovery Bag

Hoses

Filters

Specifications

Variations	Measurable gases: SF ₆ , SO ₂ , H ₂ O, CF ₄ , HF, O ₂ , H ₂ S, CO
Display	7" (180mm) full-colour LCD with touchscreen operation
Data	4 GB internal data storage, exportable Excel-compatible data via USB memory stick
Dimensions	180mm (H) x 480mm (W) x 360mm (D)
Weight	21 kg
Battery Life	Up to 8 hours lithium battery use with 4-6 hours charging time

Key Applications:

- Gas Insulated Electrical Switchgear
 - Transformers
 - Circuit Breakers
 - Substations
 - Capacitors
- *other applications relevant

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RAPIDOX 6100 QU4D

Multi-Gas Pumpback Analyser



Key Features

- Portable and user-friendly
- Multi-switchgear compatibility
- Customisable options
- Featuring IR technology
- Battery operated
- Integrated thermal printer
- IP66 Peli case for protection
- Rapid Analysis and data logging

Specifications

Variations	Measurable gases: SF ₆ , C4-FN, C5-FK, Clean Air
Display	7" (178mm) Colour LCD touch screen interface with soft menu keys
Data	4GB internal data storage allowing for approximately 1 year of continuous monitoring
Dimensions	270mm(H) x 560mm(W) x 450mm(D)
Weight	21kg (Total instrument and case)
Battery Life	Up to 8 hours. 4-6 hour charge

RAPIDOX 7100 SERIES

State-of-the-art Multigas Analyser



Key Features

- Bespoke sensor combinations
- Permanent or sampling modes
- A benchtop or a 19" rack-mounted version
- Excel-compatible format
- Optional pump & Multiplexer



Specifications

Variations	Measurable gases: O ₂ , CO ₂ , CO, H ₂ O, C ₂ H ₄ , SO ₂ , CH ₄ , H ₂ , H ₂ S, SF ₆ , Cl ₂ , NO, NO ₂ , N ₂ O, O ₃ , He, NH ₃ , HF, CF ₄ , VOC, SO ₂ F ₂
Display	7" (180mm) full-colour LCD with touchscreen operation
Data	4 GB internal data storage, exportable Excel-compatible data via USB memory stick
Dimensions	Rack Mount: 132mm (H) x 482mm (W) x 365mm (D) Benchtop: 180mm (H) x 570mm (W) x 345mm (D)
Alarms	Relay circuits, user programmable
Input/Output Specifications	<ul style="list-style-type: none">• 0-10V / 4-20mA linear, user programmable• RS232 (RS485 option available), with data streamed on demand• Modbus RTU / Ethernet

Key Applications:

- Biogas & Syngas
- Metal Heat Treatment
- Chemicals
- Glove boxes
- Inert gas blanketing
- Manufacturing
- SF₆ Analysis

*other applications relevant

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RAPIDOX OEM SERIES

- Simplicity and Ease of Use
- Flexibility in Configurations
- Plug-and-Play Compatibility
- Exceptional Accuracy



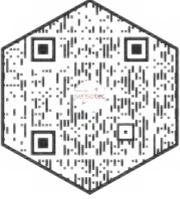
RAPIDOX OEM SERIES



Specifications	2100-OEM-RSB	2100 OEM-RSB-ENC / INS
Supply Voltage	24V VDC	24V VDC
Weight	120g	<0.5kg in enclosure
Dimensions	114mm x 76mm	114mm x 76mm
Two Alarms, Fully-Configurable	✓	✓
OLED Display	N/A	✓
Applications	<ul style="list-style-type: none"> Additive Manufacturing 	<ul style="list-style-type: none"> Additive Manufacturing Inert Gas Blanketing Modified Atmosphere Packaging (MAP)

*for full OEM range please visit our website

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Specifications	1100ZR3 OEM-RSB DIN Rail Multiplex	3100 OEM-3 3 Sensor OEM System
Supply Voltage	24V VDC	90-260 VAC, 50/60Hz
Weight	1.85kg	3.5kg
Dimensions	375mm x 120mm x 120 mm	350mm x 263mm x 150mm
Two Alarms, Fully-Configurable	✓	✓
OLED Display	*Optional ✓	N/A
Applications	<ul style="list-style-type: none"> • Additive Manufacturing • Solder Reflow • Glove Boxes • Metal Heat Treatment 	<ul style="list-style-type: none"> • Additive Manufacturing • Forming Gas • Inert Gas Blanketing • Metal Heat Treatment • MLCC Manufacturing

RAPIDOX OEM SERIES



Specifications	Rapidox 2100 OEM-SIL2	
Supply Voltage	24V VDC +/-10%	
Weight	<0.5kg in enclosure, OEM board 120g	
Dimensions	70mm x 130mm x 105mm	
Two Alarms, Fully-Configurable	✓	
OLED Display	✓	
Applications	<ul style="list-style-type: none"> • Additive Manufacturing • Combustion • Manufacturing • Research & Development • Metal Powder Processing • Glove Boxes • Inert Gas Blanketing • Solder Reflow Oven • Metal Heat Treatment • Forming Gas 	

*for full OEM range please visit our website

Contact Us:

Tel: +44 (0)1480 462142

sales@cambridge-sensotec.co.uk

support@cambridge-sensotec.co.uk



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Cambridge Sensotec Ltd

Visit Us:

29 Stephenson Road,
St. Ives, Cambridge
PE27 3WJ
United Kingdom

