SprintIR®-R

GSS Gas Sensing Solutions

- High-Speed CO$_2$ Sensor
- Up to 50 measurements per second
- Patented solid-state LED technology
- Fastest response time

About the SprintIR®-R

The SprintIR®-R is part of a range of CO$_2$ sensors designed to deliver unprecedented high-speed measurement capability. The SprintIR®-R will take up to 50 readings per second, making it ideal for applications that require individual measurements at high repetition rates or where the CO$_2$ concentration is changing rapidly.

The SprintIR®-R is fitted with a standard flow-through adaptor so the CO$_2$ gas can be passed over the optical sensor at high speed. Other customised adaptors are also possible depending on the installation requirements.

The SprintIR®-R uses patented NDIR solid-state LED optical technology enabling the sensor to respond to rapidly changing CO$_2$ without compromising parametric performance.
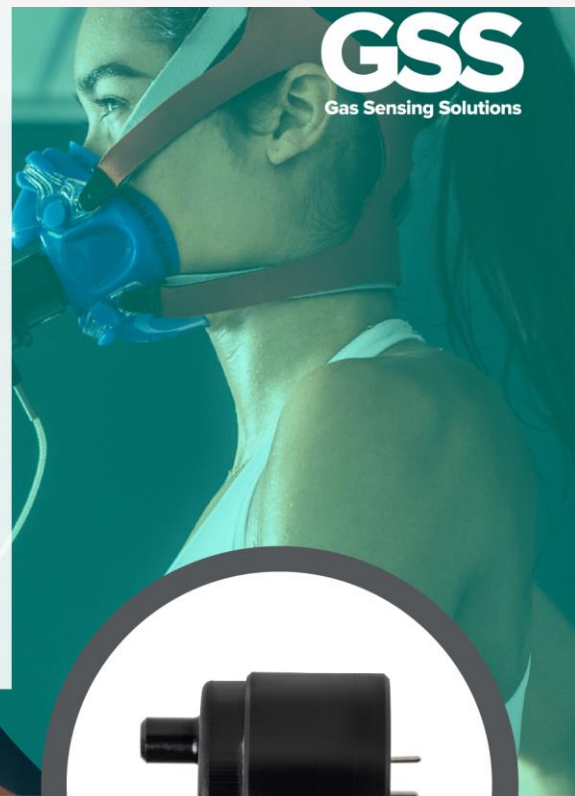
Features

- 50 readings per second
- Optional customised flow adaptors
- Low power CO$_2$ sensor
- Solid-state LED optical technology
- UART data interface
- Built-in auto-zero function

Applications

- Healthcare
- Food Packaging
- Sport Science

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Ordering Information

SPRINTIR - R - x - x

x	Measurement Range
5	0-5%
20	0-20%
60	0-60%
100	0-100%

x	Gas Cover
Blank	Flow through adaptor as standard
M	Membrane instead of flow adaptor

CO₂ Sensor Specifications

Measurement Ranges	0-5%, 0-20%, 0-60%, 0-100%
Accuracy (typ.)	0-60% ±(70ppm, +5% of reading) 0-100% ±(300ppm, +5% of reading)
Time to 1st Reading	<0.2 Seconds
Response Time	Flow Dependent
Readings per Second	50
Sample Method	Solid-state LED NDIR Diffusion

Electrical and Mechanical Specifications

Measurement Output	UART
Supply Voltage	3.25V – 5.5V
Power Consumption (typ.)	100mW @3.3V
Dimensions and Weight	Ø24.8mm x 24mm, 7.5g

Operating Conditions

Operating Conditions – Temperature	0°C to 50°C
Operating Conditions - Humidity	0-95% RH, non-condensing
Storage Conditions - Temperature	-40°C to +70°C
Ambient Operating Pressure	500mbar to 2bar
Sensor Lifetime	>15 years
Environmental Compliance	RoHS and REACH