# SprintIR\*-65 • High-Speed CO<sub>2</sub> sensor • Up to 20 measurements per second

Patented solid-state LED technology



Fast response time

The SprintlR®-6S is part of a range of  $CO_2$  sensors designed to deliver unprecedented high-speed measurement capability. The SprintlR®-6S will take up to 20 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 SprintlR®-6S is fitted with a standard flow-through adaptor so the CO<sub>2</sub> gas can be passed over the optical sensor at high speed. Other customised adaptors are also possible depending on the installation requirements.

The SprintlR®-6S uses patented NDIR solid-state LED optical technology enabling the sensor to respond to rapidly changing CO<sub>2</sub> without compromising parametric performance.

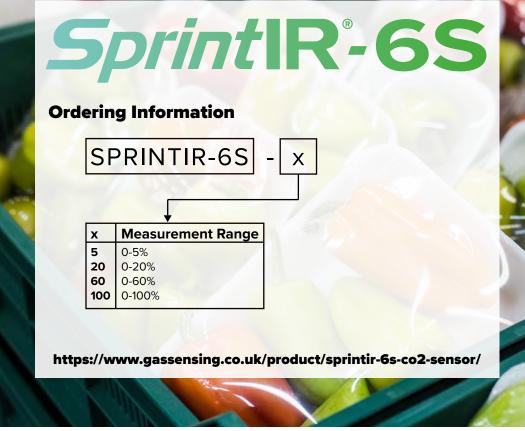
### **Features**

- 20 readings per second
- Optional customised flow adaptors
- Low-power CO<sub>2</sub> sensor
- Solid-state LED optical technology
- UART data interface
- Built-in auto-calibration

## **Applications**

- Healthcare
- Food Packaging
- Sport Science
- CO<sub>2</sub> Fire Suppression Deployment







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	<0.5 seconds	
Response Time	Flow dependent	
Readings per Second	20	
Sample Method	Solid-state LED NDIR Diffusion	

# **Electrical and Mechanical Specifications**

Measurement Output	UART
Supply Voltage	3.25V to 5.5V
Power Consumption (typ.)	35mW @ 3.3V
Dimensions and Weight	ø23.8mm x 24mm, 7.5g

# **Operating Conditions**

<b>Operating Conditions - Temperature</b>	0°C to 50°C
Operating Conditions - Humidity	0-95% RH, non-condensing
Storage Conditions - Temperature	-30°C to +70°C
Pressure Dependence	500mbar - 2bar
Sensor Lifetime	>15 years
<b>Environmental Compliance</b>	RoHS and REACH



