

# SprintIR<sup>®</sup>-W

**GSS**  
Gas Sensing Solutions

- **High-Speed CO<sub>2</sub> sensor**
- **Up to 20 measurements per second**
- **Patented solid-state LED technology**
- **Fast response time**



## About the SprintIR-W

The SprintIR<sup>®</sup>-W is part of a range of CO<sub>2</sub> sensors designed to deliver unprecedented high-speed measurement capability. The SprintIR<sup>®</sup>-W 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<sub>2</sub> concentration is changing rapidly.

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

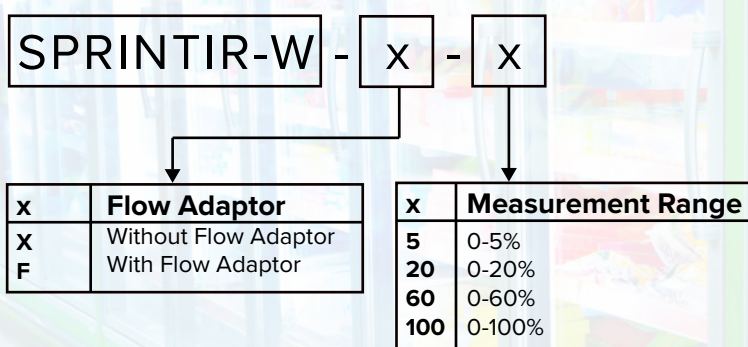
## Features

- 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
- Optional diffusion sampling

## Applications

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

## Ordering Information



<https://www.gassensing.co.uk/product/sprintir-co2-sensor/>



## CO<sub>2</sub> 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	<0.5 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, 9g

## Operating Conditions

Operating Conditions - Temperature	0°C to 50°C
Operating Conditions - Humidity	0-95% RH, non-condensing
Storage Conditions - Temperature	-30°C to +70°C
Pressure Dependence	500mbar - 10bar (without flow adaptor)
Sensor Lifetime	>15 years
Environmental Compliance	RoHS and REACH