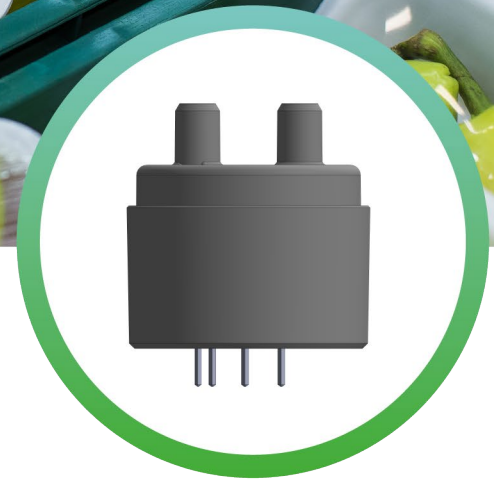


# SprintIR<sup>®</sup>-6S

**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<sup>®</sup>-6S

The SprintIR<sup>®</sup>-6S is part of a range of CO<sub>2</sub> sensors designed to deliver unprecedented high-speed measurement capability. The SprintIR<sup>®</sup>-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<sub>2</sub> concentration is changing rapidly.

The SprintIR<sup>®</sup>-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 SprintIR<sup>®</sup>-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-zero function

## Applications

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

## Ordering Information

SPRINTIR-6S - 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 |

<https://www.gassensing.co.uk/product/sprintir-6s-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)<br>0-100% ±(300ppm, +5% of reading) |
| Time to 1 <sup>st</sup> 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 – 5.5V         |
| Power Consumption (typ.) | 35mW @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           |