

SprintIR®-6S

GSS
Gas Sensing Solutions

- **High-Speed CO₂ sensor**
- **Up to 20 measurements per second**
- **Patented solid-state LED technology**
- **Fast response time**

About the SprintIR®-6S

The SprintIR®-6S is part of a range of CO₂ sensors designed to deliver unprecedented high-speed measurement capability. The SprintIR®-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 CO₂ concentration is changing rapidly.

The SprintIR®-6S is fitted with a standard flow-through adaptor so the CO₂ gas can be passed over the optical sensor at high speed. Other customised adaptors are also possible depending on the installation requirements.

The SprintIR®-6S uses patented NDIR solid-state LED optical technology enabling the sensor to respond to rapidly changing CO₂ without compromising parametric performance.

Features

- 20 readings per second
- Optional customised flow adaptors
- Low-power CO₂ sensor
- Solid-state LED optical technology
- UART data interface
- Built-in auto-calibration

Applications

- Healthcare
- Food Packaging
- Sport Science
- CO₂ Fire Suppression Deployment



Ordering Information

SPRINTIR-6S - X

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

<https://www.gassensing.co.uk/product/sprintir-6s-co2-sensor/>



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 | <0.5 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

| | |
|------------------------------------|--------------------------|
| 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 - 2bar |
| Sensor Lifetime | >15 years |
| Environmental Compliance | RoHS and REACH |