

# SprintIR<sup>®</sup>-6S

- 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

# SprintIR®-6S

## 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



## CO<sub>2</sub> Sensor Specifications

<b>Measurement Ranges</b>	0-5%, 0-20%, 0-60%, 0-100%
<b>Accuracy (typ.)</b>	0-60% ±(70ppm, +5% of reading) 0-100% ±(300ppm, +5% of reading)
<b>Time to 1<sup>st</sup> Reading</b>	<0.5 Seconds
<b>Response Time</b>	Flow Dependent
<b>Readings per Second</b>	20
<b>Sample Method</b>	Solid-state LED NDIR Diffusion

## Electrical and Mechanical Specifications

<b>Measurement Output</b>	UART
<b>Supply Voltage</b>	3.25V – 5.5V
<b>Power Consumption (typ.)</b>	35mW @3.3V
<b>Dimensions and Weight</b>	Ø24.8mm x 24mm, 7.5g

## Operating Conditions

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