

New High-Speed CO₂ Sensor from Gas Sensing Solutions

SprintIR®-R CO₂ Sensor has 50Hz Measurement Rate

15 April 2020 - Cumbernauld, UK: Gas Sensing Solutions, a pioneer in solid-state gas sensors, has launched a new ultra-high-speed CO₂ sensor. The SprintIR®-R takes a reading every 20 milliseconds, making it amongst the fastest solid-state CO₂ sensors available today.

The SprintIR®-R sensor allows the user to measure CO₂ levels in real-time with high accuracy. This capability enables designers to integrate CO₂ measurement capability into new generations of equipment; healthcare professionals can monitor CO₂ levels in patients' breath in real-time when using respiratory machines; or measure CO₂ levels in food packaging on a production line where the gas is used to extend shelf-life.



The SprintIR®-R is based on GSS proprietary solid-state non-dispersive infra-red (NDIR) LED technology, where the sensor measures concentration levels by analysing the amount of light absorbed by the CO₂ gas. The ability to measure CO₂ gas levels at unprecedented rates is due to a combination of GSS solid state detection technology with its inherent high response rate, and special optical design techniques.

Julian Hayes, CEO of Gas Sensing Solutions said *"GSS is delighted to offer this new high-speed CO₂ sensor to the market. The introduction of the SprintIR®-R CO₂ sensor enables our customers to take near real-time readings. This is essential for applications such as capnography and Modified Atmosphere Packaging where CO₂ levels are changing rapidly."*

The SprintIR®-R is released to production. A customer evaluation kit is also available, enabling users to easily assess the performance of the SprintIR®-R. Each kit contains a SprintIR®-R CO₂ sensor, USB cable to connect to a PC and software to allow the user to control and configure the sensor. For more information, or to order SprintIR®-R CO₂ sensor, please visit www.gassensing.co.uk.

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About GSS

Headquartered in the UK, Gas Sensing Solutions is a global leader in solid state Non-Dispersive Infra-Red (NDIR) LED based gas sensors. Uniquely, the LEDs and companion photo-detectors are manufactured in-house on molecular beam epitaxy (MBE) machines and used in all its patented NDIR diffusion CO₂ sensors.

GSS design, develops and manufactures a wide range of solid state NDIR CO₂ gas sensors, providing innovative products to the world's leading OEMs where low power, high accuracy and high-speed measuring capability are required. GSS has world-wide representation, selling into a wide range of markets including indoor air quality monitoring systems, health care, aerospace, food monitoring and personal safety equipment.

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