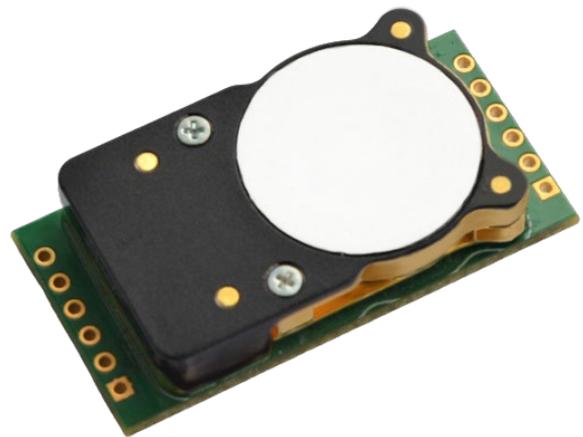


## **New Ultra-Low-Power CO<sub>2</sub> Sensor from Gas Sensing Solutions**

### **CozIR®-LP3 CO<sub>2</sub> Sensor with <3.5mW average power Consumption, Low-Profile Form Factor and Multiple Fixturing Options**

**29 September 2020 - Cumbernauld, UK:** Gas Sensing Solutions, a pioneer in solid state gas sensors, has launched a new ultra-low-power CO<sub>2</sub> sensor. The CozIR®-LP3 includes on-board power management, allowing the user to control sensor power consumption during measurements and when the sensor is inactive. The user can reduce active current consumption to <1µA without switching off the sensor.

The CozIR®-LP3 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 CO<sub>2</sub> gas. This LED technology allows the sensor to achieve unrivalled low-power consumption, making it suitable for a range of applications including battery-powered and wirelessly connected devices.



The CozIR®-LP3 provides the user with extensive flexibility, a choice of UART or I<sup>2</sup>C control interfaces, digital and analogue CO<sub>2</sub> measurements, and a fail-safe digital alarm level monitor. The CozIR-LP3 has also been designed to give the designer several fixturing options. The sensor features a low height form factor, with options for mounting on top, below or through the PCB, making the CozIR®-LP3 ideal for applications where space is at a premium.

The CozIR®-LP3 is designed to run fully autonomously with automatic self-checking and auto-zeroing, enabling the sensor to operate for long periods with no user intervention, ideal for unattended applications in air quality monitoring, IoT devices and other portable battery powered remote devices.

Julian Hayes, CEO of Gas Sensing Solutions said *“We are delighted to add the CozIR®-LP3 to our range of ultra-low-power CO<sub>2</sub> sensors. Customers can benefit from a low height form factor and small footprint, while still achieving the lowest of power consumption. The new sensor comes with an array of measurement output types, alarm and control functions options making it our most flexible sensor to date”*.

The CozIR®-LP3 is available to order from today. A Sensor Evaluation Board is also available, enabling users to easily assess the performance of the CozIR®-LP3. Each kit contains a CozIR®-LP3 CO<sub>2</sub> sensor, along with the Sensor Evaluation Board and software to allow the user to control and

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configure the sensor. For more information, or to order a CozIR<sup>®</sup>-LP3 CO<sub>2</sub> sensor, please visit [www.gassensing.co.uk](http://www.gassensing.co.uk).

### **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 CO<sub>2</sub> sensors.

GSS design, develops and manufactures a wide range of solid state NDIR CO<sub>2</sub> 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.

### **Press Contact**

Lauren Hannah – Head of Marketing  
Gas Sensing Solutions  
01236 781900  
[Lauren.hannah@gassensing.co.uk](mailto:Lauren.hannah@gassensing.co.uk)