

GSS

Gas Sensing Solutions

Alcom Electronics welcomes a CO² sensing solution to its portfolio. By adding Gas Sensing Solutions to our linecard we can offer our customers solid-state CO² sensors. Their in-house engineering and technical teams have many years of experience in solid-state carbon dioxide gas sensor development. Created in the UK, they have been leading CO² sensing technology within the global market for over a decade – so they know CO² monitoring inside out. Customization and special projects are possible, we can adapt products accordingly for you.

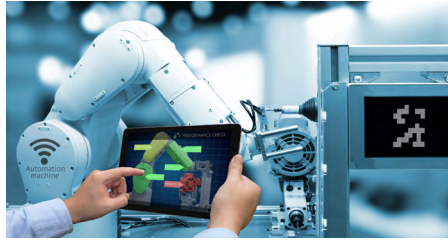
*Tiny size, low power,
fast response and
robust CO² sensors*



Applications & Markets



Home & Building Automation



Industrial Safety



Healthcare



Horticulture & Food Processing



Aerospace

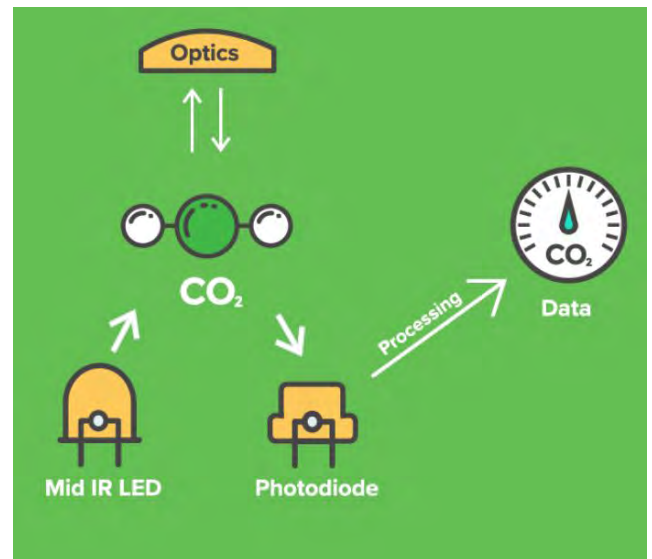


Transportation

CO² sensors and Solutions

How it works

- The GSS CO₂ sensor uses a solid-state, ultralow-power LED light source and photodiode detector
- LEDs and photodiodes are manufactured inhouse using a unique molecular beam epitaxy (MBE) process, where the semiconductor devices are formed by the sequential epitaxy of semiconductor layers onto the surface of a crystal substrate
- Based on a GaAs base wafer, LEDs and photodiodes are grown on 4 inch wafers
- LEDs tuned to provide ideal 4.3um wavelength output, ideal for use in CO₂ sensors



Key advantages



Size

Tiny size and format fits inside the smallest of instruments and systems.



Power

So low power can be used for battery/wireless and very low power applications.



Speed

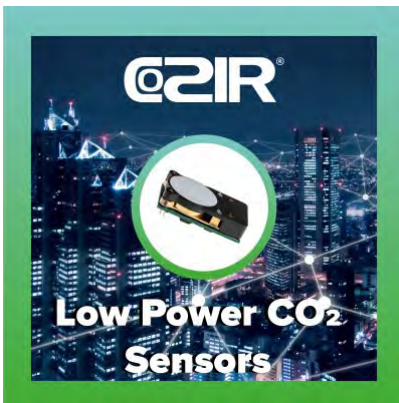
Fast response and measurement rate gives instant repeated readings.



Durability

Robust, solid-state design gives longer lifetime and reliability in harsh environments.

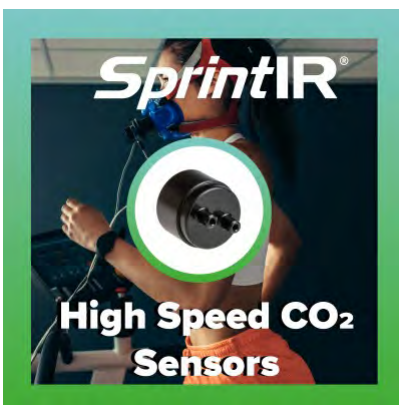
Low Power Sensors



Proprietary LED technology enables a much lower power consumption than typical infrared CO2 sensors, allowing battery-powered applications to last much longer.

- CozIR®-Blink Sensor
- CozIR®-LP2 CO2 Sensor
- CozIR®-LP CO2 Sensor
- CozIR®-A CO2 Sensor

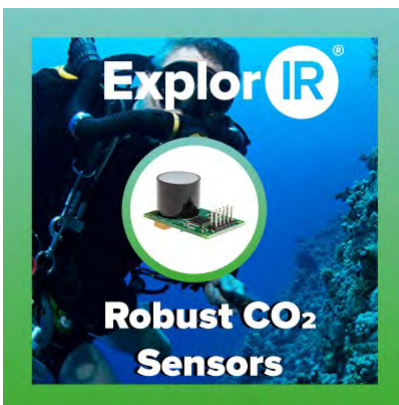
High speed Sensors



The SprintIR range of CO2 sensors are designed for applications which require ultra-fast, repeated measurements. The GSS in-house engineering team have developed a range of sensors capable of taking between 20 and 50 readings per second and are available to order in measurement ranges of 0-5%, 0-20%, 0-60% and 0-100%, dependant on the customer's requirements.

- SprintIR®-R CO2 Sensor
- SprintIR®-6S CO2 Sensor
- SprintIR®-W CO2 Sensor

Robust Sensors



The ExplorIR range of CO2 sensors are built to endure harsh conditions while still low power consumption. GSS use solid state technology to ensure these robust sensors can endure changes in extremes in pressure, temperature and relative humidity, as well as being vibration and shock resistant. This allows the sensors to provide accurate readings in unstable environments.

- ExplorIR®-M CO2 Sensor
- ExplorIR®-W CO2 Sensor

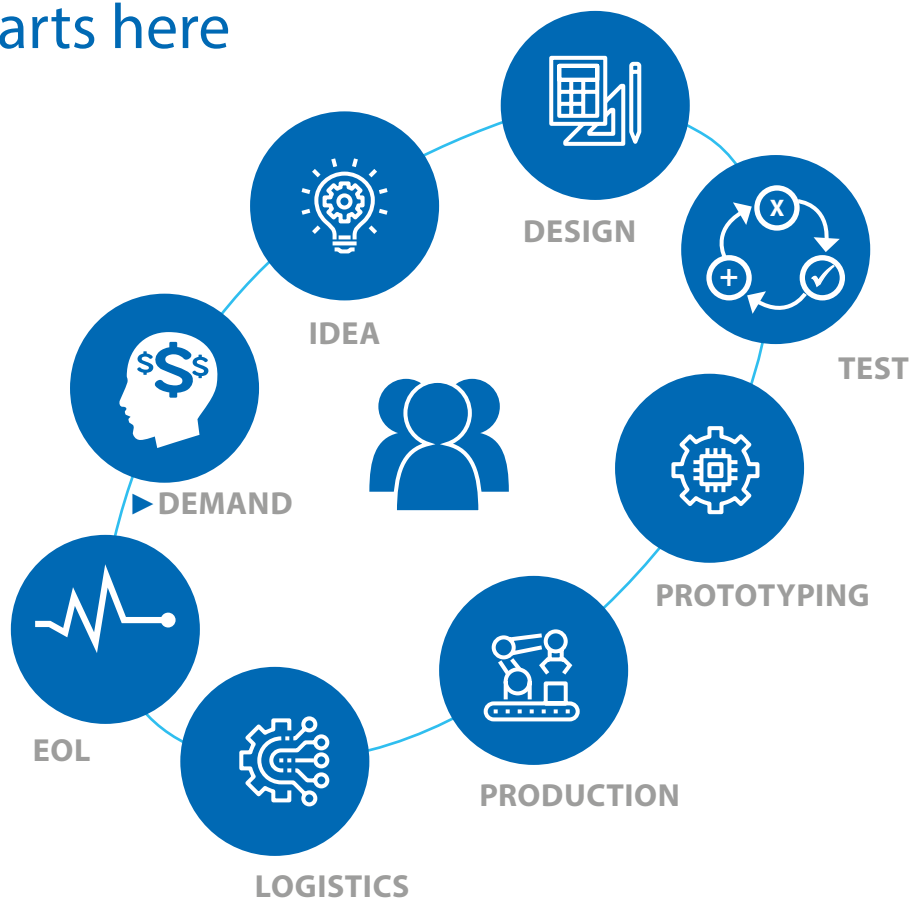
Evaluation kit Sensors



Gas Sensing Solutions CO2 sensor evaluation kits lets you quickly put our sensors to the test, helping you make informed decisions about your development. You get real-time readings, allowing you to evaluate compatibility with your product, and test proof-of-concept. You can review sensor measurements on your PC, and also download readings to an Excel file for analysis. There's no need to develop any code – just plug and play for instant demonstration.

- CozIR Evaluation Kit
- SprintIR Evaluation Kit
- ExplorIR Evaluation Kit

Co-creation starts here



ELECTRONIC COMPONENT SOLUTIONS

- Semiconductors
- Passives
- Electromechanical
- Photonics

- Wireless Modules
- Wireless Boxed
- Networking & Connectivity

WIRELESS & NETWORKING

DISPLAY & TOUCH

- Display
- Touch

- LED
- Solid State Lighting

LED & SOLID STATE LIGHTING

EMBEDDED COMPUTING

- SBC, CPU & IPC
- Memory Storage
- Rugged Mobile Computing

- Power Conversion
- EMC

POWER & EMC

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