

# Low Power



## CozIR®-LP3

- Up to 1% CO<sub>2</sub> measurement range
- I<sup>2</sup>C or UART digital interface
- Alarm and Analogue Outputs
- 3.3mW active power consumption, 3.3uW standby

Our most flexible ultra-low-power CO<sub>2</sub> sensor with a choice of UART or I<sup>2</sup>C control interfaces, digital and analogue CO<sub>2</sub> measurement outputs and a fail-safe digital alarm level monitor.



## CozIR®-Blink

- Up to 1% CO<sub>2</sub> measurement range
- Lowest power per measurement (26uW per reading)
- I<sup>2</sup>C or UART digital interface
- Designed to be power cycled to minimise power consumption

Reduce power consumption to unprecedented levels with state-of-the-art power management techniques. Ideal for low power and battery applications.



## CozIR®-LP2

- Up to 1% CO<sub>2</sub> measurement range
- I<sup>2</sup>C or UART digital interface
- Compact footprint
- 3.3mW active power consumption

Designed for measuring low levels of CO<sub>2</sub>, this miniature, lightweight sensor offers easy integration into gas monitoring and detection systems. This sensor is perfect for IAQ, DCV and HVAC applications.



## CozIR®-LP

- Up to 1% CO<sub>2</sub> measurement range
- UART digital interface
- Compact footprint
- 3.3mW active power consumption

This ultra-low-power CO<sub>2</sub> sensor integrates with wireless IoT networks such as ZigBee, Wi-Fi, LoRaWAN, Bluetooth, SigFox and EnOcean and is up to 50X lower power than typical NDIR CO<sub>2</sub> Sensors.



## CozIR®-A

- Up to 1% CO<sub>2</sub> measurement range
- UART digital interface
- Temperature, relative humidity, and analogue output options
- 3.3mW active power consumption

The sensor comes with a robust casing allowing for flexible deployment in ambient applications. Optional temperature, humidity sensing, and analogue output.

# High Speed



## SprintIR®-R

Up to 100% CO<sub>2</sub> measurement range  
Flow adaptor for high-speed gas exchange  
70ppm typical accuracy  
50 readings per second

Discover one of the fastest CO<sub>2</sub> sensors on the market. The SprintIR®-R takes 50 readings per second, making it ideal for high-speed and rapidly changing CO<sub>2</sub> sensing environments.



## SprintIR®-6S

Up to 100% CO<sub>2</sub> measurement range  
20 readings per second  
Flow adaptor for high-speed gas exchange  
70ppm typical accuracy

SprintIR®-6S is built on our unique patented LED technology platform and optical designs. It's this solid-state technology that enables best-in-class speed, power consumption, and durability.



## SprintIR®-W

Up to 100% CO<sub>2</sub> measurement range  
Temperature, relative humidity, and analogue output options  
20 readings per second  
70ppm typical accuracy

The SprintIR®-W is designed for high response time and high-speed measurement capability. The SprintIR®-W takes 20 readings per second, making it ideal for equipment that needs real-time CO<sub>2</sub> gas analysis or monitoring.

# Wide Range



## ExplorIR<sup>®</sup>-M

- 2 readings per second
- Smallest CO<sub>2</sub> sensor footprint
- Up to 100% CO<sub>2</sub> measurement range
- 70ppm typical accuracy

Reliably measure wide-range CO<sub>2</sub> levels with this small footprint compact sensor. Suitable for harsh and rapidly changing environments and unstable conditions.



## ExplorIR<sup>®</sup>-W

- 2 readings per second
- Up to 100% CO<sub>2</sub> measurement range
- Temperature, relative humidity, and analogue output options
- 70ppm typical accuracy

ExplorIR<sup>®</sup>-W is a flexible wide-range low power CO<sub>2</sub> sensor, with optional temperature and humidity sensing, and optional analogue output.

	<u>CozIR®- A</u>	<u>CozIR®- Blink</u>	<u>CozIR®- LP</u>	<u>CozIR®- LP2</u>	<u>CozIR®- LP3</u>	<u>ExplorIR®- M</u>	<u>ExplorIR®- W</u>	<u>SprintIR®- 6S</u>	<u>SprintIR®- R</u>	<u>SprintIR®- W</u>
<b>Measurement Range</b>	0-2000ppm	0-2000ppm	0-2000ppm	0-2000ppm	0-2000ppm	0-5%	0-5%	0-5%	0-5%	0-5%
	0-5000ppm	0-5000ppm	0-5000ppm	0-5000ppm	0-5000ppm	0-20%	0-20%	0-20%	0-20%	0-20%
	0-10000ppm (0-1%)	0-10000ppm (0-1%)	0-10000ppm (0-1%)	0-10000ppm (0-1%)	0-10000ppm (0-1%)	0-60%	0-60%	0-60%	0-60%	0-60%
						0-100%	0-100%	0-100%	0-100%	0-100%
<b>Measurement Rate (Hz)</b>	2Hz	5Hz	2Hz	2Hz	2Hz	2Hz	2Hz	20Hz	50Hz	20Hz
<b>Digital Interface Type</b>	UART	UART	UART	UART	UART	UART	UART	UART	UART	UART
<b>Analogue Output</b>	Yes	I <sup>2</sup> C	No	I <sup>2</sup> C	I <sup>2</sup> C	No	Yes	No	No	Yes
	Option	No		No	Yes	No	Option		No	Option
<b>Temp &amp; RH Sensor</b>	Option	No	No	No	Option	0°C to 50°C	Option	No	0°C to 50°C	Option
<b>Operating Temp Range</b>	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	No		0°C to 50°C	0°C to 50°C		0°C to 50°C
	-25°C to 55°C				0°C to 50°C		-25°C to 55°C			-25°C to 55°C
<b>Sampling Method</b>	Diffusion	Diffusion	Diffusion	Diffusion	Diffusion	Diffusion	Diffusion	Flow Through	Flow Through	Diffusion
							Flow Through			Flow Through
<b>Features</b>	Protective Casing	26uW per reading	-	-	Digital Alarm	Ultra compact	-	20ms response time	20ms response time	-