# **CSIR**-LP

- Ultra-low power CO2 sensor
- Ideal for battery-powered wireless operation
- Fit and forget, fully autonomous operation
- Long life, >15 years

# About the CozIR®-LP

The CozIR<sup>®</sup>-LP is part of a new generation of ambient CO<sub>2</sub> sensors optimised for low-power applications. The CozIR<sup>®</sup>-LP uses NDIR solid-state LED optical technology to create a sensor with a small footprint and ultra-low-power consumption.

This makes it ideal for a new generation of portable and battery powered ambient measurement applications that require highly accurate CO<sub>2</sub> measurement capability.

The CozIR<sup>®</sup>-LP sensor is designed for measuring ambient levels of CO<sub>2</sub> from 0-1%. The sensor also features a built-in auto-zero function that maintains CO<sub>2</sub> measurement accuracy over the lifetime of the product.

## Features

- Ultra-low power CO2 sensor
- 30ppm (typ.) measurement accuracy
- Solid-state LED optical technology
- UART data interface
- Built-in auto-zero function
- California Building Standards Code, Title 24 compliant

# Applications

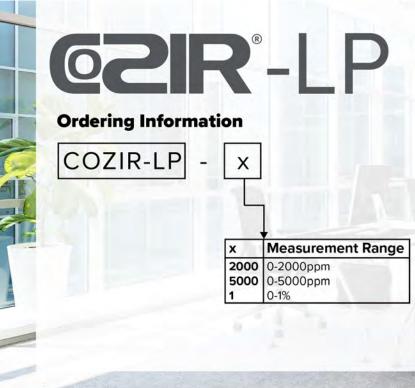
- Indoor Air Quality (IAQ)
- IoT and Smart Technology wireless equipment
- Air Quality and HVAC Systems
- Building Management Systems (BMS)
- Demand-Controlled Ventilation (DCV) systems

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### **CO2 Sensor Specifications**

Measurement Ranges	0-2000ppm, 0-5000ppm, 0-10000ppm (0-1%)
Accuracy (typ.)	±(30ppm, +3% of reading)
Time to 1 <sup>st</sup> Reading	<1.2 Seconds
Response Time	< 30 Seconds (Diffusion Limited)
Sample Method	Solid-state LED NDIR Diffusion

## **Electrical and Mechanical Specifications**

Measurement Output	UART
Supply Voltage	3.25V – 5.5V
Power Consumption (typ.)	<3.5mW @ 3.3V
Dimensions and Weight	31mm x 19.6mm x 12.2mm, 2.5g

#### **Operating Conditions**

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

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