

# CoZIR<sup>®</sup>-LP

- Ultra-low power CO<sub>2</sub> sensor
- Ideal for battery-powered wireless operation
- Fit and forget, fully autonomous operation
- Long life, >15 years



## About the CoZIR<sup>®</sup>-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 CO<sub>2</sub> 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

# COZIR<sup>®</sup>-LP

## Ordering Information

COZIR-LP

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X

x	Measurement Range
2000	0-2000ppm
5000	0-5000ppm
1	0-1%



## CO<sub>2</sub> Sensor Specifications

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

## Electrical and Mechanical Specifications

<b>Measurement Output</b>	UART
<b>Supply Voltage</b>	3.25V – 5.5V
<b>Power Consumption (typ.)</b>	<3.5mW @ 3.3V
<b>Dimensions and Weight</b>	31mm x 19.5mm x 8.7mm, 2.5g

## Operating Conditions

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