

# CoZIR<sup>®</sup>-A

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

## About the CozIR<sup>®</sup>-A

The CozIR<sup>®</sup>-A is a low-power NDIR CO<sub>2</sub> sensor using state-of-the-art solid-state LED optical technology. The LED technology enables the CozIR<sup>®</sup>-A to reduce power consumption to levels that make it particularly useful for battery powered or wireless interface applications where power is at a premium.

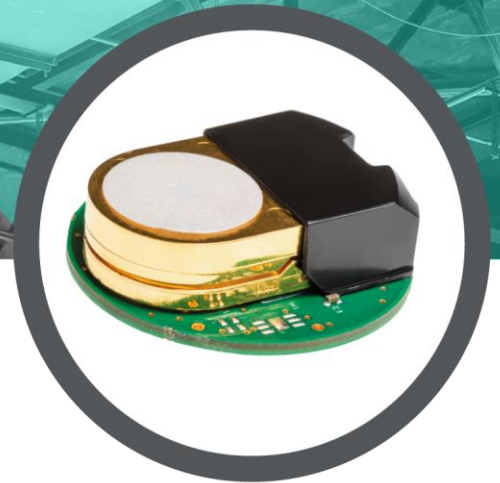
CozIR<sup>®</sup>-A is a universal sensor option for ambient sensing applications with an easy-to-use UART digital interface or a low impedance voltage output for CO<sub>2</sub> measurement readings. The CozIR<sup>®</sup>-A features built-in auto-zeroing ensuring the sensor exhibits high accuracy over the lifetime of the sensor. In addition, the CozIR<sup>®</sup>-A has a number of user definable choices to optimise integration into a wide variety of environments including different mechanical mounting options and extended temperature ranges.

## Features

- Ultra-low power CO<sub>2</sub> sensor
- 30ppm (typ.) measurement accuracy
- Solid state LED optical technology
- Optional Temperature and Relative Humidity sensing
- Optional analogue output
- UART data interface
- Built-in auto-zero function
- California Building Standards Code, Title 24 compliant

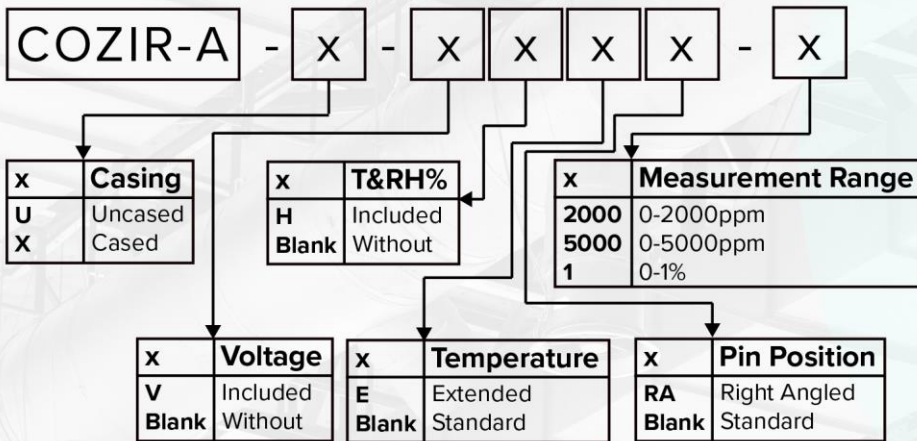
## Applications

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



# COZIR<sup>®</sup>-A

## Ordering Information



### 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, Analogue (Optional)
<b>Supply Voltage</b>	3.25V – 5.5V
<b>Power Consumption (typ.)</b>	<3.5mW @3.3V
<b>Dimensions and Weight</b>	Ø40.4mm x 11.65mm, 19g - Uncased Ø57mm x 17.25mm, 19g - Cased

### Operating Conditions

<b>Operating Conditions – Temperature</b>	0°C to 50°C (Standard) -25°C to 55°C (Extended)
<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