

CozIR[®]-A

GSS
Gas Sensing Solutions

- *Ultra-low power CO₂ sensor*
- Suitable for battery power operation
- Install and forget, completely autonomous operation
- Longevity, *over 15 years*

About CozIR[®]-A

CozIR[®]-A is a low-power NDIR CO₂ sensor that uses the most advanced solid-state LED optical technology. LED technology reduces the power consumption of CozIR[®]-A to a certain level, making it particularly suitable for battery-powered or power-limited wireless interface applications.

CozIR[®]-A is a versatile sensor for environmental sensing applications, delivering CO₂ measurement readings through either an intuitive UART digital interface or low-impedance voltage output. The CozIR[®]-A features built-in auto-zeroing functionality to ensure consistently high precision throughout its service life. Additionally, the CozIR[®]-A offers multiple user-defined options to optimize integration with diverse environments, including various mechanical mounting configurations and extended temperature ranges.

characteristic

- Ultra-low power CO₂ sensor
- 30ppm (typ.) measurement accuracy
- Solid state LED optical technology
- Optical temperature and relative humidity sensing
- Optical model output
- UART data interface
- Built-in automatic zero adjustment function
- California Building Standards Code, Section 24

apply

- Indoor air quality (IAQ)
- IoT and smart technology wireless devices
- Air quality and HVAC systems
- Building Management System (BMS)
- Demand controlled ventilation (DCV) systems
- transport
- Air quality in the cabin



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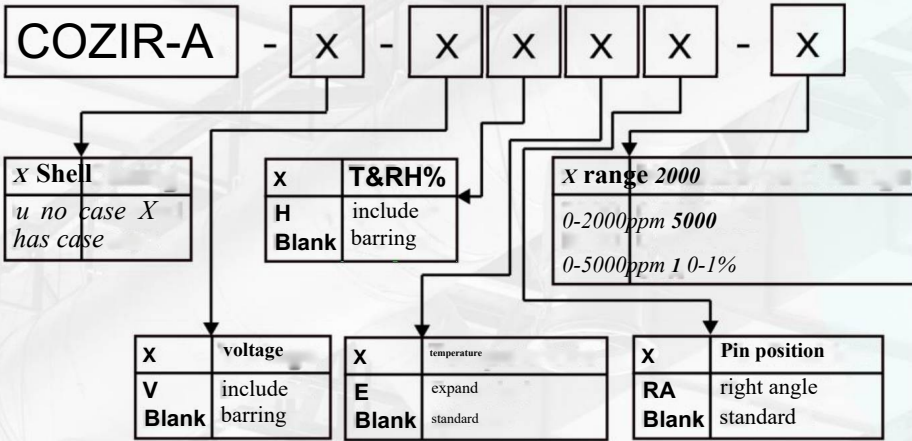
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COZIR[®]-A

Order information



CO₂ Sensor Specifications

range	0-2000ppm, 0-5000ppm, 0-10000ppm (0-1%)
Precision (typ.)	soil (30ppm, reading +3%)
Time of first reading	seconds
response time	<sp_1> 100 <sp_1> seconds (diffusion limit)
method of sampling	Solid-state LED NDIR diffusion

Electrical and mechanical specifications

Measuring outputs	UART, analog (optional)
service voltage	3.25V-5.5V
Power consumption (typ.)	<3.5mW @3.3V
Size and weight	040.4mm x 11.65mm, 19g- no case 057mm x 17.25mm, 19g- with case

going

Working conditions-temperature	0°C ~ 50°C (standard) -25°C ~ 55°C (extended)
Working conditions-humidity	0-95% RH, no condensation
Storage conditions-temperature	-40°C ~ +70°C
Pressure of environmental work	500mbar ~ 2bar
Sensor life	>15 years
Environmental compliance	RoHS and REACH

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