

COZIR™ LP

Low Power, Low Profile Carbon Dioxide Sensor

COZIR LP is a low profile, low power, high performance CO₂ sensor. Operating at a 2Hz update rate while only consuming 3mW⁵, its world leading power consumption make it ideally suited for battery operation and portable instruments. Based on proven GSS IR LED and Detector technology and innovative optical designs. **COZIR LP** is a third generation product from Gas Sensing Solutions Ltd – leaders in IR LED CO₂ sensing.

With measurement ranges of 0-2000ppm, 0-5000ppm and 0-1% the **COZIR LP** Sensor is suitable for applications such as **Building Control** and **Indoor Air Quality**.

- Ultra-low Power 3mW
- Measurement ranges from 0 to 1%
- 3.3V supply
- Peak current only 33mA
- Commands set and electrical interface compatible with GSS COZIR sensor range.

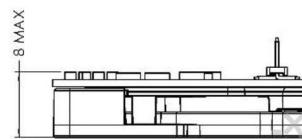
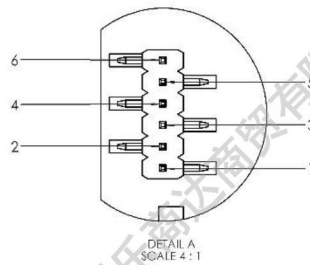
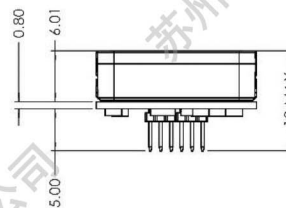
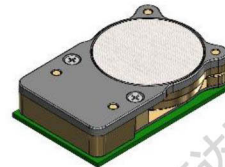
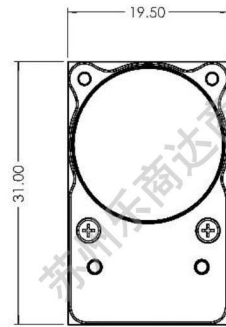


COZIR™ LP CO₂ Sensor

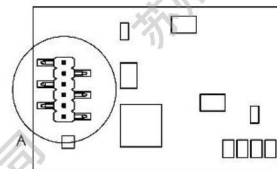
Specifications

General Performance	
Start up time	First reading 1.2s after power on ²
Operating Conditions	0°C to 50°C (Standard) -25°C to 55°C (Extended range) 0 to 95% RH, non-condensing
Recommended Storage	-30°C to +70°C
CO ₂ Measurement	
Sensing Method	Non-dispersive infrared (NDIR) absorption Patented Gold-plated optics Proprietary GSS Solid-state source and detector
Sample Method	Diffusion
Measurement Range	0-2000ppm, 0-5000ppm, 0-1%
Accuracy	±50 ppm +/- 3% of reading ¹
Calibration	Autocalibration ⁶
Non Linearity	< 1% of FS
Pressure Dependence	0.13% of reading per mm Hg in normal atmospheric conditions.
Operating Pressure Range	950 mbar to 1050 mbar ³
Response Time	2- 3 mins (Configurable via filter type and application) ³ Reading refreshed twice per second.

Electrical/ Mechanical	
Power Input	3.25 to 5.5V. (3.3V recommended). Peak Current 33mA ⁵ . Average Current <1mA ⁵ .
Connector	6-way 1.27mm header
Power Consumption	3 mW ⁵
Weight	5g
Dimensions	31mm x 19.5mm x 8mm ⁷



FUNCTION	PIN #
GND	1
Vsupply	2
Rx IN	3
Tx OUT	4
BOOT	5
READY	6



Note 1: All measurements are at STP unless otherwise stated.

Note 2: There is no sensor warm-up as the sensor has no heated parts. Longer integration time will reduce measurement noise.

Note 3: External Pressure calibration required.

Note 4: User Configurable Filter Response.

Note 5: Power measurements with sensor operated in polling mode.

Note 6: Autocalibration is enabled by default on COZIR-LP. For correct operation, the sensor must experience concentrations close to fresh air. For details request the application note "COZIR Autocalibration".

Note 7: Excludes height of connector pins.

联系我们

苏州乐商达商贸有限公司

邮箱: Gavin.Zhang@hi-reach.cn

联系人: 张锦文 Gavin Zhang

地址: 苏州工业园区星湖街999号商务汇705室

电话: 13771760917 0512-66835650

网站: www.hi-reach.cn