

## Product Information

The NOG002 series is a non-dispersive infrared carbon dioxide (CO<sub>2</sub>) gas sensor. The precision optical chamber design has been applied to improve the sensor's accuracy, and the sensor's reliability has been increased by applying the temperature compensation algorithm and automatic correction function. This smart CO<sub>2</sub> sensor can be applied in a variety of applications such as indoor air quality monitors, air purifiers, building management, automotive and agricultural HVAC.



## Electrical Characteristic

characteristic	Rating
Detectable Gas	Carbon Dioxide(CO <sub>2</sub> )
Detectable range	400~5000ppm (For accuracy : ±5% ±50ppm)
Supply voltage	DC 5V ± 10%,
Current Consumption	< 19mA Peak : 240mA (Lamp On-time)
Out put	UART( TTL 3.3V )
Operating Temp. Range	-10~60°C
Operating Humidity. Range	95%rh or less (without dew condensation)
Storage temperature	-30~70°C
Power up time	2 min (For accuracy : 10 min)
Dimensions	33.1 x 20.7 x 17.7 (mm)
weight	4.6 g

### Application Ideas

- ✓ Indoor Air Quality(IOT Solution)
- ✓ HVAC(Heating,Ventilation, Air-conditioning)
- ✓ Home Automation and control
- ✓ BEMS(Building and Energy Management System) Vehicle

## Absolute Maximum Ratings

characteristic	Rating
Supply voltage	4.9V to 5.1V
Operating temperature	-10 to 60
Storage temperature	-30 to 70

## Connector Pin Configuration

NUMBER	SYMBOL	DESCRIPTION
1,5	N/A	None Connected
2	Rx	Serial Port Receiving Pin/UART data
3	Tx	Serial Port Writing Pin/UART data
4,7	GND	Ground
6	VDD(+5V)	Positive Voltage 5V
8,9	Reserved	None Connected

### Product Inquiry

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