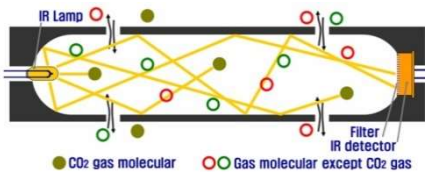




The wireless CO₂ Gas sensors can measure carbon dioxide in the air or in enclosed spaces such as botanical gardens or animal farms. It is also a sensor that can measure the amount of carbon dioxide generated by the respiration of small organisms such as insects using experimental tools such as Erlenmeyer flasks.

Using an NDIR (Non Dispersive Infra-Red) type optical detector, the amount of infrared rays absorbed by carbon dioxide molecules is recorded and measured in the range of 0 to 5,000 ppm.



It supports both Bluetooth classic mode and low power mode, so it can be used on various smart devices, and can also be connected to a PC via USB.

You can use various functions through the dedicated app (Science#).

* Download 



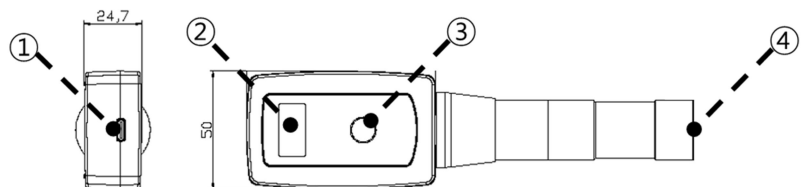
Technical data

■ Measurement performance	Range	0 ~ 5,000 ppm
	Resolution *	1 ppm
	Accuracy	3% F.S. + reading 2% (@ 25°C)
	Sampling Rate	100 Samples/second
■ General Conditions	Display	OLED 0.96" (128*64 pixel)
	Operating Power	Li-Poly Rechargeable Battery (700mAh)
	Power Consumption	1 W
	Power Requirements	USB (DC 5V, 0.5A)
	Battery life **	Approximately 4 hours(after full charge)
	Wireless Connection	Bluetooth 5.0 or 2.1+EDR
	Wired Connection	USB 2.0(Type-C)
	Environment	Recommend(High accuracy), 20 to 30 °C
	Operating Storage	5 to 45 °C, ~95%RH(Non-condensing) -20 to 60 °C
Compliance	EN 61326-1, EN 55011, EN 55032, EN 301. CE, RoHS, RE202-SMD070	
■ Mechanics specifications	Dimension(WxLxH,mm)	"190 * 50 * 24.7 mm Body 80 * 50 * 24.7, Probe OD 25 * 110"
	Weight	135 g (4.8 oz)
	Housing Materials	PC+ABS, Aluminum alloy
	Housing Protection	IP30

* This resolution can be viewed through the Science# application.

** Battery life varies by use, configuration, temperature, and many other factors; actual results will vary.

■ Product Appearance Design



- ① USB Port : Connect the sensor to a PC and use it for experiments or charging.
- ② OLED Display : Displays measured sensor values, sensor type, sensor ID, and remaining battery level.
- ③ Power/Function button : It has functions such as power ON/OFF, measurement sensor change and calibration, etc.
- ④ Sensing probe: Contains a sensor to detect CO₂ gas and is protected from contamination by a membrane filter.

■ Notices

- This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.
- Our products and the contents are subject to change without any notice. In consequence we cannot assume responsibility for any consequential or other damage resulting from the use of this instrument.

Revised Mar. 2025