

Qui Vive



Qui Vive is a non-dispersive infrared (NDIR) carbon dioxide (CO₂) sensor with built-in USB and BLE connections. The *Qui Vive* measures CO₂ concentration in the surrounding, sounds buzzer and lights warning LED when the CO₂ concentration exceeds the setting. A mobile App is developed for this product that enables the *Qui Vive* to communicate with the mobile phone, which can be used to read the CO₂ readings and changes the settings if required. The App also allows the user to calibrate or maintain the sensor when needed.

The product is suitable for vehicle cabin, indoor air quality monitoring and other purposes.

Product Specification

Operating Temperature Range.....	0 - 50 °C
Storage Temperature Range.....	-40 to +70 °C
Operating Humidity Range.....	0 to 95% RH
Warm-up Time.....	≤ 1 min. (@ full specs ≤ 15 minutes)
Power Input.....	5V
Power Consumption.....	Less than 40 mA average
CO ₂ sensing method.....	Infrared (NDIR) technology
Response Time.....	< 10 sec. @ 30 cc/min. flow rate or < 1 minutes with natural diffusion
Repeatability.....	+/- (20 ppm ± 1 % of reading)
Accuracy.....	+/- (40 ppm ± 3 % of reading)
Annual Zero Drift.....	< 10 ppm (with in-built ABC function)
Pressure Dependence.....	1.6 % reading per hPa
Data Transmission.....	Bluetooth 4.0
Frequency.....	2.4 GHz
Transmitted power.....	3 dbm
Product Dimension.....	80 x 25 x 15 (mm)

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.