

MerryIoT Air Quality CO2

Doc ver.: BQW_03_0035.005



Features

- Compliance to LoRaWAN1.0.3
- Integrated best-in-class 3 in 1 CO2 sensor with temperature and humidity sensor
- Measurement range: 400 ppm – 10000 ppm
- Accuracy: $\pm(30 \text{ ppm} + 3\%)$
- IP40 equivalent
- Easy operation: Simply wave in front of the device to receive a color-coded visual indication of the overall air quality: Green (Good), Yellow (Fair), Red (Poor)
- Built-in alarm buzzer with sound pressure level 75 dB
- Press-and-play installation

The **MerryIoT Air Quality CO2** utilizes LoRaWAN connectivity to send the CO2 concentration data of the indoor environment. Measuring CO2 levels indirectly determines how crowded the room/space is, then the ventilation can be adjusted accordingly. It can help the administrators to maintain acceptable indoor air quality in the workplace for alertness and more productivity.

Specification

Model Name	CD10
Frequency	EU 868 MHz US 902~928 MHz
Antenna Gain	-2dBi Peak
RF Sensitivity	-135dBm
Battery Type	3.6V AA Li-SOCl2 x 2 pcs, 5400 mAh
Battery Lifetime*	About 2 years. *Note: Battery life is mainly determined by the reporting frequency. Other factors include moisture and high temperature.
Average Current	160 mA maximum/ 20 mA minimum
Protocol	LoRaWAN 1.0.3
Operation Temperature	0 to 50°C
Environmental Rating	IP40 equivalent
Dimensions	90mm x 30mm x 70mm
Weight	124 g
Sensor	<ul style="list-style-type: none">• Innovated CO2 sensor:<ul style="list-style-type: none">• Measurement range: 400 ppm – 10000 ppm• Accuracy: $\pm(30 \text{ ppm} + 3\%)$• Temperature sensor:<ul style="list-style-type: none">• Measurement range: - 40°C – 70°C• Accuracy: $\pm (0.4^\circ\text{C})$• Humidity sensor:<ul style="list-style-type: none">• Measurement range: 0 %RH – 100 %RH• Accuracy: $\pm 3 \text{ %RH}$
Type Approval	CE/FCC/IC approved.

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SKU Detail		
SKU	Country	Frequency Band (MHz)
CD10-915	USA	US915 (902~928)
CD10-868	Europe	EU868 (862~870)