



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 80 dB(min)
- Press-and-play installation

The CO2 sensor 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 | WSMS-157 |
| Frequency | EU 868 MHz US 902~928 MHz |
| Antenna Gain | -2dBi Peak |
| RF Sensitivity | -135dBm |
| Battery Type | 3.6V AA Li-SOCl ₂ x 2 pcs, 4400 mAh |
| Battery Lifetime* | About 15 months *Note: Service life will vary according to the operating conditions. |
| 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 | 160 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 in progress |

CO2 Sensor

Doc ver.: BQW_03_0035.001

SKU Detail

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