

# AIR QUALITY CO<sub>2</sub> SENSOR

## LORAWAN AIR QUALITY SENSOR

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### BUILT-IN DEVICE SENSORS

- ◆ **CO<sub>2</sub> Sensor** – Carbon dioxide(CO<sub>2</sub>), based on NDIR, Range: 400 to 5000ppm with pressure compensation.
- ◆ **Temperature Sensor** – Measures temperature range 20 ~ 65°C with 0.01°C resolution.
- ◆ **Humidity Sensor** – Measures relative humidity range 0 ~ 99.9% RH with ± 3%RH accuracy and a 0.008% RH resolution.
- ◆ **Air Pressure Sensor** – Measures air pressure range 300~1100hPa with ± 1.0 hPa (0-65 °C) accuracy and a 0.18Pa resolution.

### DEVICE OVERVIEW

The **LoRaWAN® Air Quality Sensor** is a professional indoor monitor measuring **CO<sub>2</sub>, temperature, humidity, and barometric pressure**. It ensures personnel safety with a configurable audible CO<sub>2</sub> alarm and guarantees data integrity via offline logging during network outages. Designed for low-maintenance deployments, it offers a 2+ year battery life from a field-replaceable battery and supports remote OTA firmware updates.

**Best For:** Monitoring indoor air quality to enhance health, safety, and energy efficiency.

### TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class A
- **Detection Type:** CO<sub>2</sub>, Temperature, Relative Humidity & Air Pressure
- **Dimensions:** Size: 110 x 70 x 30 mm , Weight: 130g
- **Battery Type:** 4000mAh replaceable battery for long term battery life
- **Downlink Configuration:** Remotely configurable via ioX-Connect platform
- **Audible Alarms:** Supports audible alarm for CO<sub>2</sub> levels (This will decrease battery life)
- **Firmware Updates:** Wireless OTA (Over-The-Air) firmware upgrade capability
- **Data Logging:** Supports data logging functionality
- **Supported Frequency Bands:** CN470, EU433, KR920, US915, EU868, AS923, AU915, IN865, RU864

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