

LoRaWAN Indoor CO2 Sensor

AQS01-L



OVERVIEW:

The Dragino AQS01-L is an **Indoor LoRaWAN Air Quality Sensor** for the Internet of Things solution. It is designed to measure the surrounding environment parameters include: **CO₂** , **Temperature** , **Relative Air Humidity** and **Air Pressure**, and then upload to IoT server via LoRaWAN wireless protocol.

AQS01-L is powered by an **ER18505 4000mAh battery**. The battery can last more than 2 year and is easy to change.

AQS01-L supports **BLE configure** and **wireless OTA update** which make user easy to use.

AQS01-L supports **CO₂ alarm*** features, users can get an alarm for instant notice.

AQS01-L supports **Datalog** feature, User can retrieve the sensor data from LoRaWAN commands.

Note*: CO₂ Alarm will decrease a lot the battery life.

Features:

- LoRaWAN 1.0.3 compliant
- Monitor CO₂/Temperature/Relative Humidity/Pressure
- CO₂ alarm
- Datalog Feature
- AT Commands to change parameters
- Bands: CN470/EU433/KR920/US915/EU868/AS923/AU915/IN865
- Support BLE and LoRaWAN remote configure
- OTA update firmware or configure
- 4000mAh batteries powered
- Uplink on periodically or Interrupt

Order Info:

Part Number: AQS01-L-XX

XX: The default frequency band

- Frequency Bands, options:
CN470/EU433/KR920/US915/
EU868/AS923/AU915/IN865

Specification:

Common DC Characteristics:

- Supply Voltage: 2.5 ~ 3.6v
- Operating Temperature: -20 ~ 65°C

CO₂ Sensor:

- Target gas: Carbon dioxide(CO₂)
- Operating principle: Non-dispersiveinfrared(NDIR)
- Operating range: 0-50°C, 0-85% RH(non-condensing)
- Measurement range: 400ppm to 5000 ppm
- Accuracy: Typ ±(50 ppm +3% of reading)
- Pressure Compensation

Temperature Sensor:

- Range: -20 ~ 65 °C
- Accuracy: Typ ±1.0@ 0-65 °C
- Resolution: 0.01°C

Relative Humidity Sensor:

- Range: 0 ~ 99.9% RH
- Accuracy: ± 3%RH (20 ~ 80%RH)
- Resolution: 0.008% RH
- Long term stability: 0.5 %RH/yr

Air Pressure:

- Range: 300~1100hPa
- Accuracy: ± 1.0 hPa (0-65 °C)
- Resolution: 0.18Pa
- Long term stability: ±1.0 hPa/yr

Use Scenario



Supermarket



Wine Cellar



Children Room



School



Office



Gym