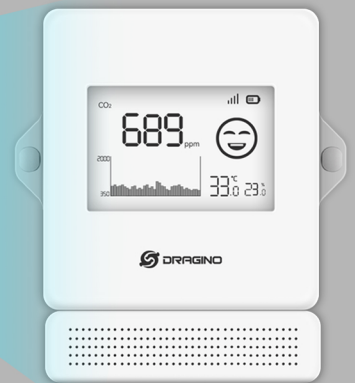




CO2-LE

LoRaWAN CO₂, Temperature, Humidity & Pressure Sensor

The Dragino CO2-LE 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, Air Pressure, and then upload to IoT server via LoRaWAN wireless protocol and shown in a 2.7" E-Ink Display.

CO2-LE is powered by a 2 x ER18505 4000mAh battery. The battery can last more than 2 years and is easy to change.

CO2-LE supports BLE configure and wireless OTA update which make user easy to use.

CO2-LE supports CO₂ Alarm and Temperature Alarm* features, users can get an alarm for instant notice.

CO2-LE supports Datalog feature, User can retrieve the sensor data from LoRaWAN commands.

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

Features

- LoRaWAN 1.0.3 Class A
- Bands: CN470/EU433/KR920/US915/EU868/AS923/AU915/IN865
- Monitor CO₂/Temperature/Relative Humidity/Air Pressure
- 2.7" E-Ink Display
- Support CO₂ alarm
- Support Datalog Feature
- Support Bluetooth v5.1 and LoRaWAN remote configure
- Support wireless OTA update firmware
- Uplink on periodically
- Downlink to change configure
- 8000mAh batteries powered(~3.5 years for 10 minutes uplink interval)



High Precision



Low Power
Consumption



2.7" E-Ink Display



CO₂ alarm



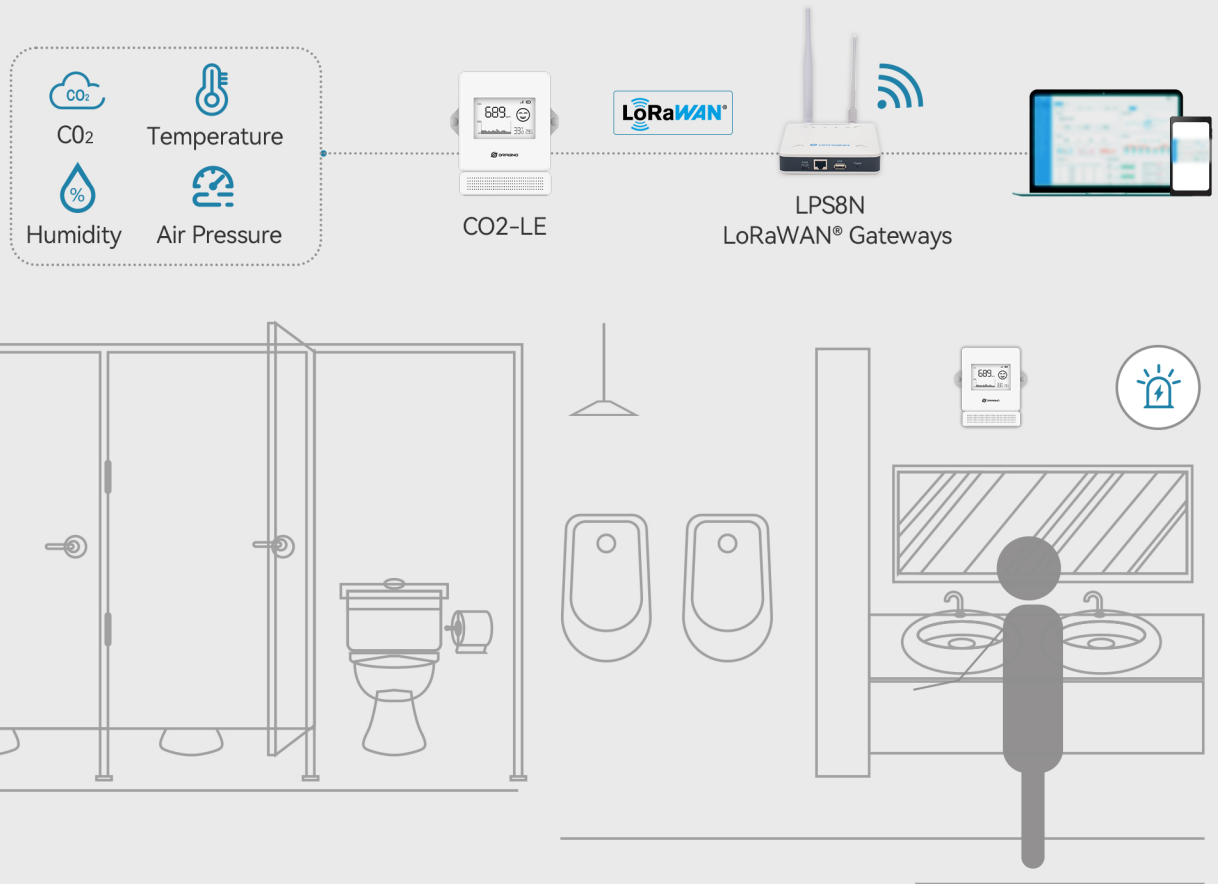
wireless OTA
update firmware



Datalog Feature

Indoor Public Area Air Quality Monitoring

Real-time CO₂, Temperature, Humidity & Air Pressure Monitoring



Specifications

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 (extended range up to 10000 ppm)
- Accuracy: Typ ±(50 ppm +3% of reading)
- Pressure Compensation

Humidity Sensor

- Range: 0 ~ 99.9% RH
- Accuracy: ± 3%RH(0 ~ 100%RH)
- Resolution: 0.1% RH
- Long Term Shift: <0.25 %RH/yr

Temperature Sensor

- Range: -40 to + 80°C
- Accuracy: ±0.2 @ 0-90 °C
- Resolution: 0.1°C
- Long Term Shift: <0.03 °C/yr

Air Pressure Sensor

- Range: 300 ~ 1100hPa
- Accuracy : ±0.3 hPa

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