

LoRaWAN Air Quality Sensor

LAQ4



OVERVIEW:

The Dragino LoRaWAN Air Quality Sensor is designed to monitor the indoor air quality. It measures the CO₂, TVOC, Temperature and Humidity and report to IoT Server via LoRaWAN protocol.

LAQ4 has a built-in CCS811 air quality sensor, it senses a wide range of Total Volatile Organic Compounds (TVOCs), including equivalent carbon dioxide (eCO₂) and metal oxide (MOX) levels.

LAQ4 also equipped a SHT20 temperature & humidity sensor which provide strong reliability and long-term stability to monitor the temperature and humidity.

LAQ4 has have alarm mode which can update the TVOC once there exceed the limit.

LAQ4 is powered by **4000mA Li-SOCI2 battery** for long time measurement. The battery can run 2~5 years depends on the network enviroment and working mode. The battery is replaceable easily by open the enclosure.

Features:

- LoRaWAN 1.0.3 compliant
- Monitor TVOC, CO₂
- Alarm for TVOC, CO₂ monitoring
- Monitor Battery, Temperature & Humdity
- Firmware upgrable
- Wall Mountable
- Configurable via LoRa or UART
- 4000mAh Li-SOCI2 Battery

Power Comsuption:

- Sleeping Mode: 33uA
- Sampling: 20mA
- LoRa Transmit: 24 ~ 150mA

Dimension:

- Size: 110 x 70 x 30 mm
- Net Weight: TBD

Specification:

Temperature Sensor:

- Range: -40 ~ +80 °C
- Accuracy: ± 0.3°C
- Resolution: 0.01°C

Humidity Sensor:

- Range: 0 ~ 99.9% RH
- Accuracy: ± 3%RH (10 ~ 90%RH)
- Resolution: 0.04% RH
- Response Time: < 5s

eTVOC:

- Range: 0ppb up to 32768ppb

eCO₂:

- Range: 400ppm up to 29206ppm

Order Info:

LAQ4-XXXXX

XXXXX for valid frequency band, include:
EU868, US915, AU915, AS923, EU433
IN865, KR920, CN470