



Air Quality Sensor

Wireless monitoring of VOC levels

The wireless Air Quality Sensor monitors volatile organic compound (VOC) levels to ensure the best air quality possible. VOCs are organic chemicals present in indoor air, and some VOCs can cause both short-term and long-term adverse health effects.

With the wireless Air Quality Sensor, your customers will be able to monitor indoor air quality and ensure that the air is clean and healthy. As the Air Quality Sensor also monitors humidity, it can be used to monitor the humidity in the house and protect valuable belongings.

The wireless Air Quality Sensor is easy to integrate into IoT solutions. It features long range and accurate reporting of VOC levels, temperature, and humidity.



- Continuous monitoring of VOC levels
- Accurate humidity, temperature and air quality reporting
- Easy mounting and installation

Monitor indoor air quality, temperature and humidity

The battery-driven Air Quality Sensor provides your customers with continuous monitoring of VOCs and information on the VOC levels throughout the day in order to prevent adverse health effects. The wireless Air Quality Sensor is easy to integrate into IoT solutions. It features long range and accurate reporting of VOC levels, temperature, and humidity.

LEVEL	HYGIENIC RATING	RECOMMENDATION	TVOC [$\mu\text{g}/\text{m}^3$]	TVOC [ppb]
5	Unhealthy Situation not acceptable	Intense ventilation necessary	10'000 - 25'000	2200 - 5500
4	Poor Major objections	Intensified ventilation / airing necessary	3'000 - 10'000	660 - 2200
3	Moderate Some objections	Intensified ventilation recommended	1'000 - 3'000	220 - 660
2	Good No relevant objections	Ventilation/airing recommended	300 - 1'000	65 - 220
1	Excellent No objections	Target value	< 300	0 - 65



Air Quality Sensor - Technical specifications

Model number: AQSZB-110

General

Dimensions (W x H) 70 x 70 x 21 mm / 2,76 x 2,76 x 0.83 inches

Colour White

Power supply Battery: 2 x AA, exchangeable
Battery life: 2 years, reporting every 5 minutes
Resolution: 0.1 Volt

Radio Sensitivity: -97 dBm
Output power: up to +7 dBm

Environment Operation temperature 0 to +50°C / 32 - 122°F
IP class: IP20

Functions

VOC sensor Range: 0 to 60000 ppb
Resolution: 1 - 32 ppb
Reporting: configurable

Temperature sensor Range: 0 to +50°C / 32 - 122°F
Resolution: 0.1°C / 0,18°F (accuracy typical $\pm 0.2^\circ\text{C}$ / 0,36°F)
Sample time: 30 s
Reporting: configurable

Humidity sensor Range: 0 to 100% RH
Resolution: 1% RH (accuracy typical 2%, 20-80% RH)

Communication

Wireless protocol Zigbee Home Automation
Zigbee end-device

Certifications

Conforming to CE, RED and RoHS directives