

Air Quality Sensor

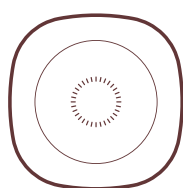
Wireless monitoring of VOC levels



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.



Key features

- 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.

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 x D)	70 x 70 x 21 mm / 2.76 x 2.76 x 0.83 inches
Weight	29.1 / 1.03 oz (with packaging: 120.5 g / 4.25 oz)
Colour	White
Power supply	Battery: 2 x AA, exchangeable Battery life: 2 years, reporting every 5 minutes Resolution: 0.1 Volt
Radio	Sensitivity: -92 dBm Output power: Typ. +4 dBm
Environment	Operation temperature 0 to +50°C / 32 - 122°F IP class: IP20

Functionality

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 ± 0.2°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
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Certifications

Conforming to CE, RED and RoHS directives