

RoomAlyzer Air: CO2 sensor



Precise air quality data – with maximum battery life.

The CO2 Sensor is the professional solution for monitoring air quality in environments where wellbeing and concentration are crucial. In combination with the RoomAlyzer platform, you receive a sound and fact-based foundation for optimising ventilation and the indoor climate. The sensor is 100% wireless and transmits data securely via Cloud Connector – completely independent of your local IT network. This makes it ideal for use in offices, schools, and institutions, where a healthy indoor climate forms the basis for an efficient daily routine.

CO2 sensor



Measurement of CO2, temperature, humidity, and pressure



Compact indoor climate sensor
Dimensions: H95 x W66 x D25 mm

Your three core benefits:

- **Fact-based documentation:** Put an end to gut feelings and guesswork. You receive concrete documentation of CO2 levels to professionally address user enquiries and optimise air quality for both users and management.
- **Increased wellbeing & performance:** By actively lowering the CO2 level, you minimise fatigue and headaches in classrooms and offices. A healthy indoor climate is a direct investment in lower illness rates and a significantly improved ability to concentrate.
- **Simple energy optimisation:** You only consume the energy that is actually needed. By regulating ventilation based on real-time data rather than fixed schedules, you reduce heating and electricity consumption without compromising on comfort.

RoomAlyzer: The intelligent brain behind your sensors

Our platform transforms measured values into active property protection, wellbeing, and safety. We combine years of experience with intelligent algorithms that secure your operations and preserve value.



Prevention of a poor indoor climate across the entire building portfolio:

Automatic notifications via email and SMS ensure that you are informed before the air quality noticeably declines. The platform provides you with a full overview of numerous locations simultaneously, ensuring you can always react in good time.



Real-time data and long-term analyses:

Real-time data raises user awareness for manual ventilation where no automatic systems are present. RoomAlyzer directly controls existing systems with the collected data via our API.



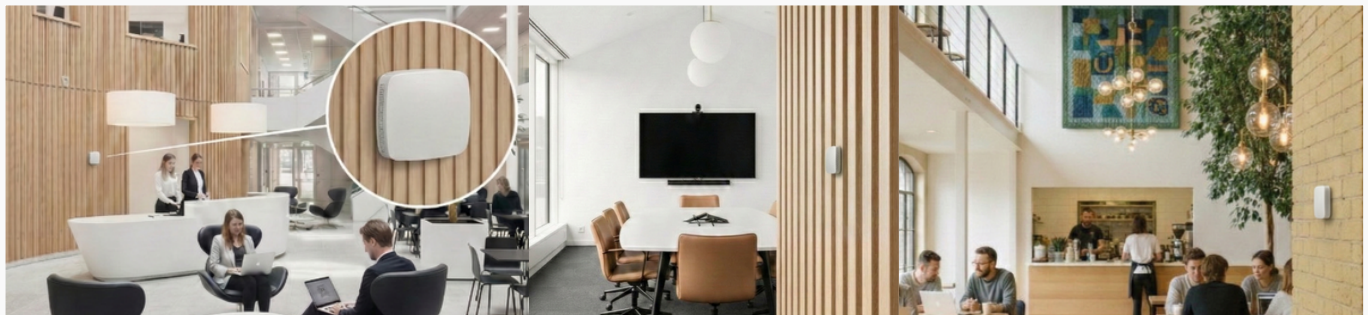
Automatic documentation and AI:

RoomAlyzer delivers data in the form of clear analyses and concrete recommendations. The system learns from your buildings and helps you make operations smarter and more cost-effective.

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Your advantages with a simple and secure system:

Function	RoomAlyzer-advantage	Your benefit
Communication	SecureDataShot™ via Cloud Connector. Requires neither Wi-Fi nor gateway configuration.	Stable connection completely independent of your local Wi-Fi or IT network.
Operation	Up to 10 years of battery life.	Stable operation with minimal maintenance requirements and low operating costs.
Measurements	Continuous recording of CO2, temperature, humidity, and pressure.	Audit-proof documentation for staff, management, and authorities.
System integration	Open REST API, webhooks, and MCP for AI agents.	Future-proof solution that communicates with your other IT systems.
Data security	Full end-to-end encryption (AES-128) and 100% EU-based data hosting.	Ensures full data ownership and simplifies your risk analysis with regard to NIS2.
Personal data & GDPR	Exclusively technical measurement data without personally identifiable information.	Minimal administrative effort, as complex GDPR requirements do not apply to the measurements.



Technical specifications:

Sensors: CO2, temperature, humidity, and pressure
Measuring range: CO2: 0–5,000 ppm / Humidity: 10 to 95% RH
Precision: Temperature $\pm 1^\circ\text{C}$ / Humidity $\pm 3\%$ / CO2 ± 30 ppm ($\pm 3\%$)
Communication: SecureDataShot™ via Cloud Connector
Activation: Removal of the battery strip (plug-and-play)
Control software: Web application and mobile app (iOS/Android)
Open API: Easy integration into third-party systems

Battery: Up to 10 years. Replaceable pack (3 x AA lithium, 6,300 mAh)
Mounting: Peel-and-stick tape on the back
Dimensions: H95 x W66 x D25 mm
Weight: 116 g (incl. batteries)
Material: Polycarbonate (PC)
Application: Offices, schools, meeting rooms, and institutions
Certification: CE and UKCA certified