

RoomAlyzer Air: Outdoor sensor



The professional solution for precise monitoring of your outdoor climate.

The Outdoor Sensor is an essential component of modern building management. By precisely recording outdoor temperature and humidity, you establish the necessary reference for your indoor measurements. This combined database within the RoomAlyzer platform enables you to accurately understand the influence of the outdoor climate on your building. This allows you to optimise operations and effectively prevent structural damage. The sensor is designed for extreme conditions, is 100% waterproof (IP67 certified), and transmits data via the closed NB-IoT network. This guarantees maximum operational reliability independent of your local IT infrastructure – even through the most massive external walls.

Outdoor sensor



Measurement of temperature and humidity



Robust outdoor climate sensor
Dimensions: H132 x W80 x D30 mm

Your three core benefits:

- **Precise energy optimisation through outdoor climate data:** Knowing the exact outdoor temperature at your building enables demand-driven fine-tuning of the heating system. This eliminates unnecessary energy consumption and ensures both economic and ecological gains.
- **Intelligent mould prevention:** By recording outdoor humidity, you can control ventilation proactively. You minimise the risk of drawing in damp outdoor air and prevent mould growth before it threatens the building fabric or the wellbeing of the users.
- **Robust installation under extreme conditions:** Record measurements in hard-to-reach places with a two-part, waterproof design that guarantees stable operation in the harshest environments. The external probe withstands extreme temperatures, while the sensor housing can be positioned securely.

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.



Real-time comparison of outdoor and indoor climate:

RoomAlyzer directly compares indoor data with the current outdoor temperature and humidity. This provides unique insights into the building's insulation capabilities and ventilation requirements.



Round-the-clock prevention:

An automatic early warning system via email and SMS informs you immediately if, for example, extreme frost or moisture levels threaten the building's installations.



Automated documentation and AI:

You receive clear analyses and concrete recommendations for action based on your building's reaction to the outdoor climate. This guarantees fact-based and future-proof operation.

Your advantages with a simple and secure system:

Function	RoomAlyzer-advantage	Your benefit
Communication	NB-IoT: Direct cellular connection.	Simple installation and a stable signal – even through thick external walls.
Operation	Up to 8 years of battery life.	Minimal maintenance requirements and a long service life, even under harsh conditions.
Measurements	Precise temperature and humidity recording via probe.	Provides the data foundation for understanding the building's climatic reaction.
System integration	Open REST API, webhooks, and MCP for AI agents.	Future-proof solution that communicates seamlessly with your existing 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: Temperature and humidity (via external 1 m probe)
Measuring range: (Probe): Temperature: -40 to +125°C / Humidity: 0–99% RH
Operating range: Temperature: -35 to +70°C
Precision: Temperature $\pm 0.4^\circ\text{C}$ / Humidity $\pm 3\%$ RH
Communication: NB-IoT (Narrow Band Internet of Things)
Activation: Ready to use upon delivery (plug-and-play)
Control software: Web application and mobile app (iOS/Android)
Open API: Easy integration into third-party systems

Battery: Up to 8 years. Replaceable pack (3 x AA lithium, 6,300 mAh)
Mounting: Screws
Dimensions: H132 x W80 x D30 mm
Weight: 283 g
Material: Cast grey plastic (robust and weather-resistant)
Application: Outdoor areas, technical rooms, warehouses, and sheds
Certification: CE and IP67 certified (waterproof)