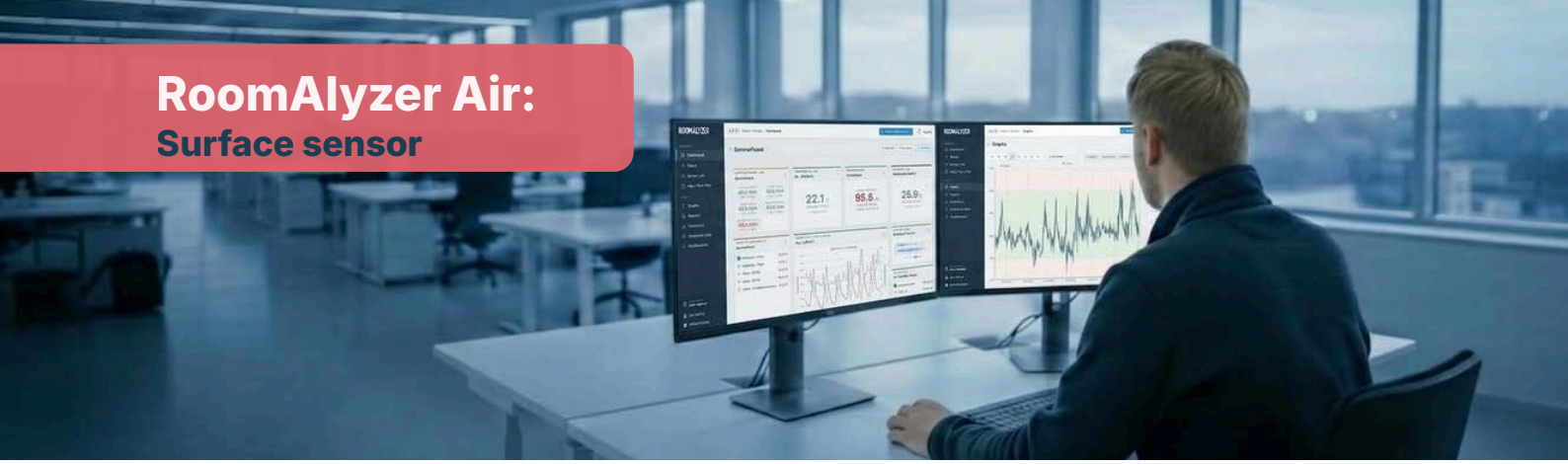


RoomAlyzer Air:
Surface sensor

Precise monitoring of room climate and wall surfaces.

Surface sensor

Housing: temperature and humidity
Probe: temperature only

Indoor climate sensor with external probe
Dimensions: H125 x W60 x D32.5 mm

The Surface sensor is the professional solution for controlled environments where one temperature point is not enough. In combination with the RoomAlyzer platform, you receive a continuous record of ambient temperature and humidity in the housing, together with surface temperature from the external probe. The sensor is 100% wireless and transmits data over NB-IoT, with no gateway – completely independent of your local IT network. This makes it ideal for medical refrigerators and freezers, pharmaceutical stores, laboratories, archives, and server rooms.

Your three core benefits:

- Room and surface in one: The housing measures temperature and humidity in the room while the contact probe sits flat against a wall, pipe, or shelf and records the surface temperature.
- Long service, little maintenance: The battery version runs for up to 8 years on one replaceable 8,500 mAh battery. The sensor stores up to 100,000 readings and sends them when the connection returns.
- Precision you can document: Ambient temperature and humidity are measured in the housing, and temperature on the 1 m probe.

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.

IoT Fabrikken

RoomAlyzer Air:
Surface sensor

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	Ambient temperature and humidity, plus external temperature on a 1 m 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.



Sensor: temperature and humidity. **Probe**: temperature only.

Technical specifications:

Sensors:	Ambient temperature and humidity, plus one external surface temperature probe
Measuring range:	Probe: −55 to +125 °C / Ambient: −25 to +70 °C / Humidity: 0–100% RH
Operating range:	Housing: −25 to +70 °C / 0–99% RH. Probe: −55 to +125 °C
Precision:	Probe ±0.5 °C (−10 to +85 °C) / Ambient ±0.2 °C / Humidity ±2% RH (0–90%)
Long-term drift:	Temperature <0.1 °C/year / Humidity <0.2% RH/year
Communication:	NB-IoT (Narrow Band Internet of Things)
Control software:	Web application and mobile app (iOS/Android)
Open API:	Easy integration into third-party systems
Battery:	Up to 8 years. Replaceable battery (8,500 mAh)
Mounting:	3M adhesive pads
Dimensions:	H125 x W60 x D32.5 mm
Weight:	170 g with battery / 155 g USB-C
Material:	White ABS plastic, IP30
Application:	Medical refrigerators and freezers, pharmaceutical stores, laboratories, archives, and server rooms
Certification:	CE (RED), FCC, and RoHS

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