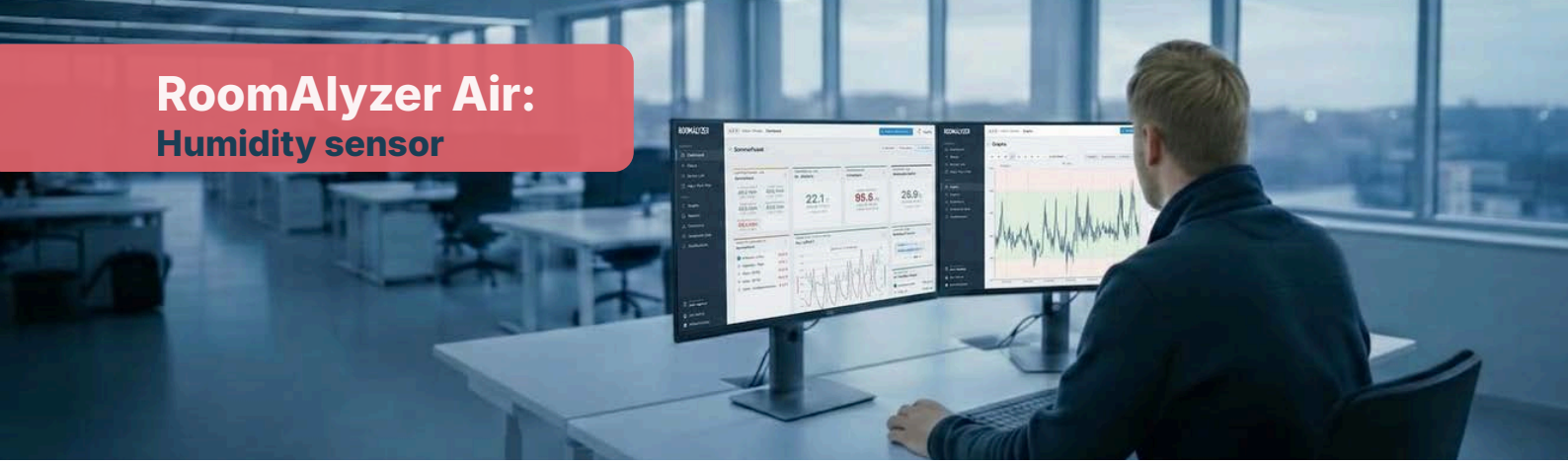

RoomAlyzer Air:
Humidity sensor

Discreet protection for assets and the indoor climate – with an extremely long battery life.

Humidity sensor

Measurement of temperature and humidity

Compact indoor climate sensor
Dimensions: H39 x W23 x D12 mm

The Humidity Sensor is the ideal solution for anyone who requires precise temperature and humidity data in a discreet, compact sensor. It delivers exact measured values to the RoomAlyzer platform – whether to comply with strict heritage conservation requirements, to safeguard irreplaceable cultural assets, or to optimise the working environment in the office. The platform processes your data into easily understandable analyses and graphs, so you retain a complete overview at all times. This supports you in optimising operations and protects buildings as well as inventory from unfavourable climatic conditions – completely independently of your local IT network.

Your three core benefits:

- Premium discretion: Thanks to its extremely compact design and a weight of under 10 grams, the sensor blends seamlessly into office landscapes, churches, or museums. This keeps the technology discreetly in the background without drawing attention away from the surroundings.
- Extreme economic efficiency: With a battery life of up to 15 years, you gain stable condition monitoring that operates virtually maintenance-free. You avoid frequent battery replacements and manual maintenance, guaranteeing low operating costs and long-term reliability.
- Flexible and precise sensor technology: Ideal for offices, archives, and technical rooms: The high-end sensor technology guarantees maximum precision and market-leading long-term stability. Thanks to the extremely low drift, calibration during ongoing operation is completely unnecessary.

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.

Preventing damage around the clock:
Automatic notifications via email and SMS inform you immediately if limit values are exceeded. In this way, you proactively protect your assets from damage while simultaneously reducing your energy costs based on data.

Detect mould before it becomes a problem:
Our mould forecast warns you immediately if the indoor climate is conducive to mould growth. Following an incident, the platform supports you in monitoring the entire drying process with audit-proof documentation.

Automatic documentation, analysis, 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.

IoT Fabrikken

RoomAlyzer Air:
Humidity sensor

Your benefits from a simple and secure system:

Function	RoomAlyzer-advantage	Your benefit
Communication	SecureDataShot™ via Cloud Connector.	Simple installation and a stable signal – even through thick walls.
Operation	Up to 15 years of battery life.	Stable operation with minimal maintenance requirements and low operating costs.
Measurements	Precise temperature and humidity measurement.	Audit-proof documentation for the protection of art, medication, and the working environment.
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: Temperature and humidity
Measuring range: Temperature: -40 to +85°C / Humidity: 0–100% RH
Precision: Temperature ±0.1°C / Humidity ±1% RH (at room temp.)
Long-term drift: Temperature <0.03°C/year / Humidity <0.20% RH/year (under normal conditions)
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 15 years (replaceable BR1632A pack)
Mounting: High-performance peel-and-stick tape
Dimensions: H39 x W23 x D12 mm
Weight: 9.3 g
Material: Polycarbonate (PC)
Application: Heritage conservation (churches, museums), archives, offices, and warehouses
Certification: CE and UKCA certified

info@iot-fabrikken.com
iot-fabrikken.com

IoT Fabrikken

+45 7171 8090