

thermokon®
HOME OF SENSOR TECHNOLOGY



theviOS®
Galaxy of Possibilities



Intelligent buildings require precise data, scalable systems and network-compatible devices.

With thevios[®], we offer modern ambient ceiling sensors as a powerful measuring device for efficient building automation.

Whether as a stand-alone sensor or as an integral part of a future-proof system solution.





Illustration shows surface-mounted version

MEASURING WHAT BRINGS SPACES TO LIFE



Inspired by the Galaxy – Developed for Smart Buildings.

Efficient building automation requires precise and reliable room data. thevios provides this foundation – as multifunctional ceiling sensors for comfort, health and energy efficiency.

The devices measure all relevant parameters such as motion, luminosity, temperature, humidity, CO₂, VOCs and particulate matter.

Central ceiling installations allow to detect changes in room climate to be detected early and reliably, so that other BMS peripheral devices can be controlled precisely and energy-efficiently.

This ensures a pleasant working and learning environment with consistently high air quality. The integrated LED traffic light function provides transparency about the indoor air quality at a glance.

With standardised communication via BACnet IP or RS485 Modbus, the sensors can be seamlessly integrated into existing infrastructures.

thevios is a scalable solution – from individual rooms to complete sensor networks (**theGRID**).

FEATURES



- **Energy Efficiency:**
Reduces energy consumption and operating costs through demand-based control of air conditioning, shading and lighting.
- **Future-proof:**
Seamless integration into existing building management systems via BUS – for scalable and long-term solutions.
- **More Comfort:**
Automatically controlled rooms create a pleasant environment and promote well-being and productivity.
- **Flexible Use:**
For new buildings and modernisation – from individual rooms to networked systems.
- **Compact Design:**
The elegant, discreet design fits harmoniously into any interior design.
- **High Reliability:**
High-quality components and a stable construction ensure precise measurements and an extended product life.

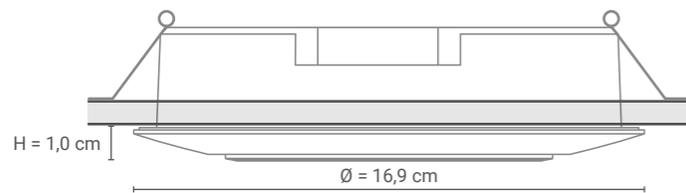
thevios® 5

thevios 5 is a powerful room multi sensor for ceiling mounting. The device can be seamlessly integrated into building automation systems via BACnet IP.

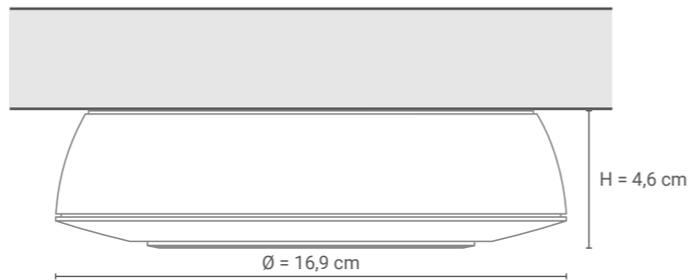
This means that all room data are available in real time and can be used for demand-based control of air conditioning, shading and lighting.

FEATURES

- Intelligent combination of multiple measurements in a single device: motion, luminosity, temperature, humidity, CO2, VOC, particulate matter (PM)
- Traffic light function: LED ring for status display (configurable)
- Communication via BACnet IP
- Easy configuration via web interface
- Ideal for offices, schools, hotels, meeting rooms...



thevios 5 for flush mounting



thevios 5 for surface mounting

thevios® 5



Motion



Luminosity



Temperature



Humidity



CO2



VOC



Particulate Matter

thevios® 3



Motion



Luminosity



Temperature



Humidity

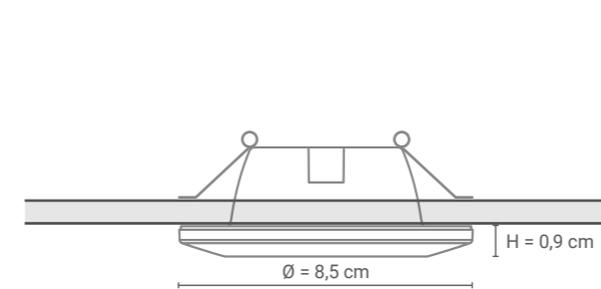
thevios® 3

thevios 3 is an efficient multi sensor for room applications in building automation.

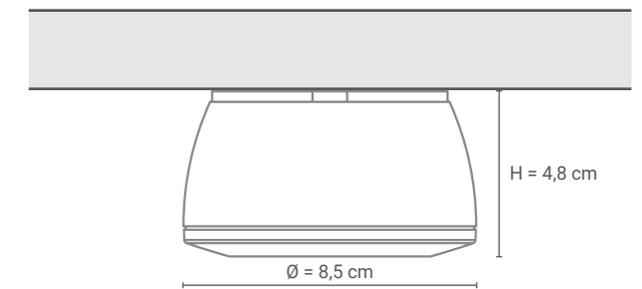
It is ideal for new buildings and retrofit projects where a cost-effective solution and rapid deployment are important.

FEATURES

- Economical powerful ceiling multi sensor
- Intelligent combination of multiple measured values in a single device: motion, luminosity, temperature, humidity
- Communication via RS485 Modbus
- Comfortable parameterisation via uConfig
- Elegant, timeless design



thevios 3 for flush mounting



thevios 3 for surface mounting

theGRID

ONE PLATFORM, ONE GALAXY.

theGRID connects multiple thevios multi sensors to form a modular system architecture.

Instead of individual stand-alone devices, a network is created – comparable to a galaxy – in which a central instance links the satellites to form an intelligent network.

The **Satellites (SAT)** take over the decentralised, reliable measurement of basic parameters across multiple rooms or zones.

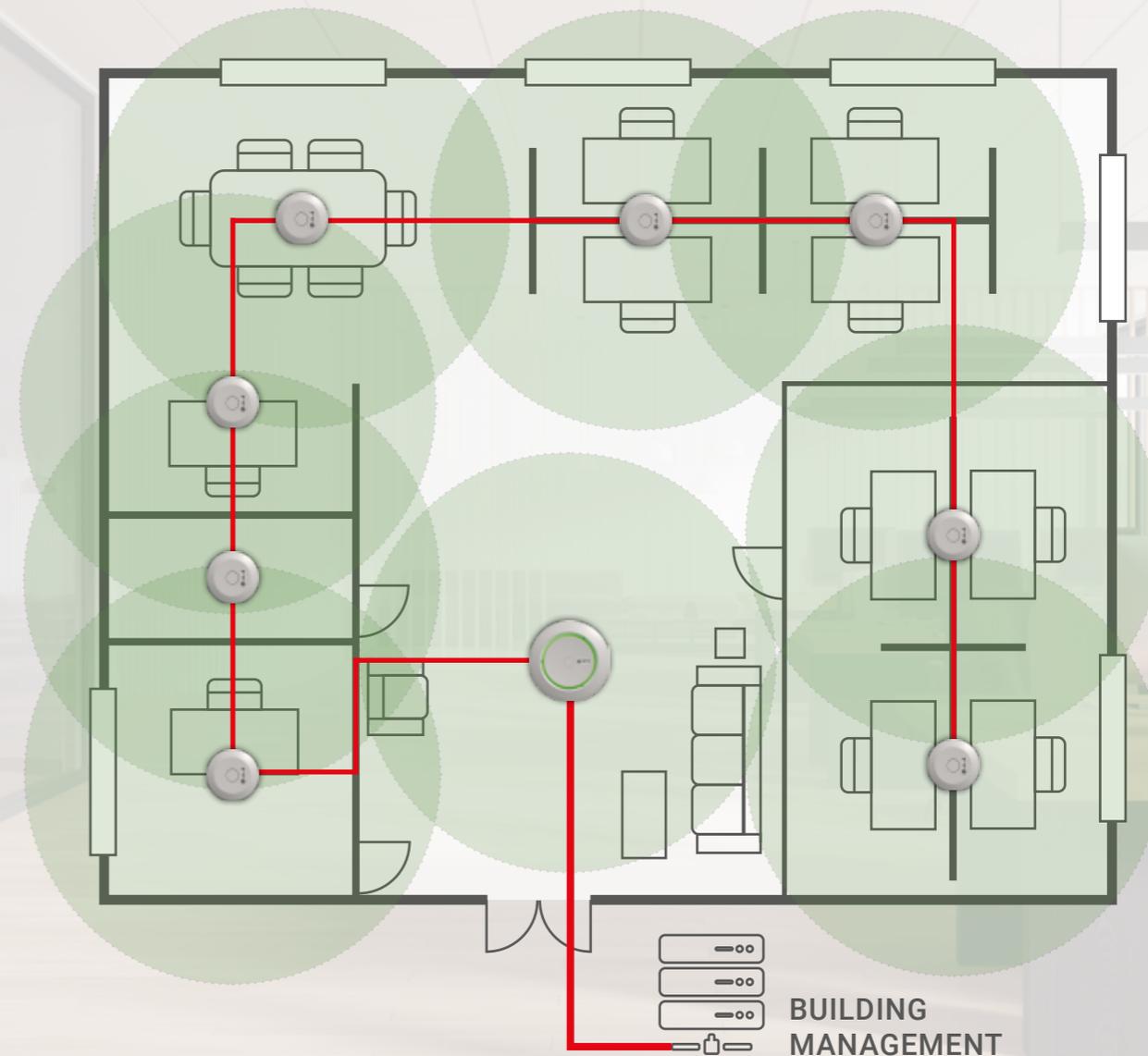
They can be integrated easily and cost-effectively via a two-wire BUS. This makes modern building automation quickly to be implemented in smaller projects or building retrofits.

The central **HUB** gathers all decentral information collected and makes it available transparently and in a standardised form via BACnet IP. In addition to the HUB, it works as a fully-fledged multi sensor as well.

FEATURES

- **Central Platform:**
With an IP interface to the building automation
- **Clean Structures:**
Due to simple system architecture
- **Easy Installation:**
Up to eight satellites connected via two-wire BUS
- **Cost Efficiency:**
Low integration and operating costs
- **Scalable Platform:**
For growing data requirements
- **Maximum Data Transparency:**
HUB with integrated multi sensor

TheGRID makes building automation simpler, more reliable and scalable.





theviOS® HUB

Central Interface and Multi Sensor

The theviOS HUB is the central element of the networked ceiling sensor system.

It creates a direct connection between local room data and higher-level building automation.

As an intelligent base station, the HUB bundles precise measurements from several connected sensors and makes them available transparently via BACnet IP in the building management system. In addition, it provides comprehensive room parameters and thus functions naturally as a multi sensor as well.

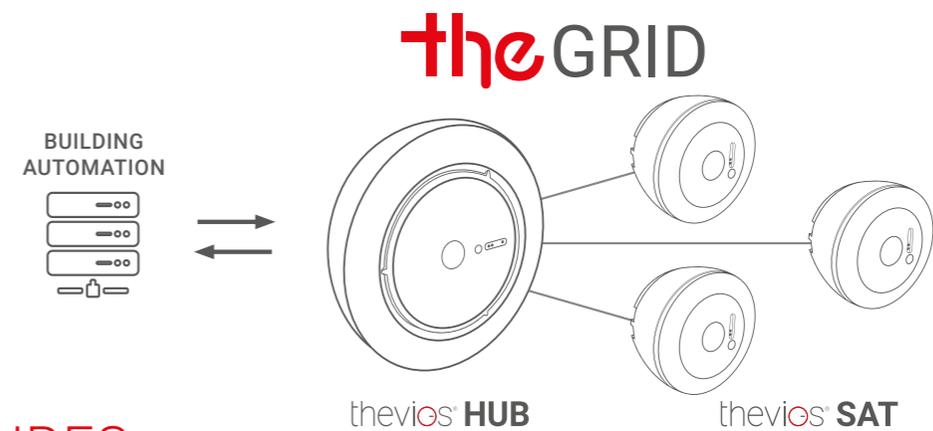
theviOS® SAT

Satellites for Flexible Placement.

The theviOS SAT reliably detects and gathers room data such as motion, luminosity, temperature and humidity.

Thanks to their compact design, they can be positioned flexibly and inconspicuously in the room – exactly where sensor data enable comfortable and efficient room controls.

The simple connection via a two-wire BUS creates a sensor network across multiple rooms or zones..



FEATURES

- **Central Intelligence:** As the central communication interface, the HUB provides all room data directly to the building automation system, reducing integration costs.
- **Maximum Flexibility:** Uniform support for wired connections enables use in new buildings, existing buildings and hybrid installations.
- **High Scalability: Eight SAT per HUB** can be connected. Ideal for flexible expansions and increasing data acquisition requirements.
- **Cost-Effective Operation:** Central database, quick installation and simple system architecture result in lower project and life cycle costs.

COMMISSIONING – IT IS SO EASY WITH theGRID

FEATURES

- System configuration and data management via the HUB web interface
- No additional software needed
- Quick assignment of sensor addresses
- Simple two-wire installation of satellites (daisy chain principle)
- Centralised or decentralised power supply

IP INTERFACE/WEB UI – EASY AND CENTRAL

FEATURES

- Centralised device management via WebUI
- Saving and loading configurations
- Open BACnet IP communication
- Documented BACnet object library
- Comfortable remote control and management



TYPE OVERVIEW	MOTION	LUMINOSITY	TEMP	TEMP IR	REL. HUMIDITY	CO2	VOC	PM	theGRID	COMMUNICATION	POWER SUPPLY	CONFIGURATION	MOUNTING
thevios 3 Occ Lum RS485 Modbus	■	■								RS485 Modbus	24 V	uConfig, BUS	flush, surface ¹
thevios 3 Occ Lum rH RS485 Modbus	■	■	■		■					RS485 Modbus	24 V	uConfig, BUS	flush, surface ¹
thevios 3 Occ Lum rH IR RS485 Modbus	■	■	■	■	■					RS485 Modbus	24 V	uConfig, BUS	flush, surface ¹
thevios 5 Occ Lum rH BACnet IP	■	■	■		■					BACnet IP	24 V/ PoE	WebUI	flush, surface ¹
thevios 5 Occ Lum CO2 rH BACnet IP	■	■	■		■	■				BACnet IP	24 V/ PoE	WebUI	flush, surface ¹
thevios 5 Occ Lum CO2 VOC rH BACnet IP	■	■	■		■	■	■			BACnet IP	24 V/ PoE	WebUI	flush, surface ¹
thevios 5 Occ Lum PM CO2 VOC rH BACnet IP	■	■	■		■	■	■	■		BACnet IP	24 V/ PoE	WebUI	flush, surface ¹
thevios 5 Occ Lum PM CO2 VOC rH IR BACnet IP	■	■	■	■	■	■	■	■		BACnet IP	24 V/ PoE	WebUI	flush, surface ¹
thevios HUB Occ Lum rH BACnet IP	■	■	■		■				■	BACnet IP	24 V	WebUI	flush, surface ¹
thevios HUB Occ Lum CO2 rH BACnet IP	■	■	■		■	■			■	BACnet IP	24 V	WebUI	flush, surface ¹
thevios HUB Occ Lum CO2 VOC rH BACnet IP	■	■	■		■	■	■		■	BACnet IP	24 V	WebUI	flush, surface ¹
thevios HUB Occ Lum PM CO2 VOC rH BACnet IP	■	■	■		■	■	■	■	■	BACnet IP	24 V	WebUI	flush, surface ¹
thevios HUB Occ Lum PM CO2 VOC rH IR BACnet IP	■	■	■	■	■	■	■	■	■	BACnet IP	24 V	WebUI	flush, surface ¹
thevios SAT Occ Lum	■	■							■	theGRID	24 V	uConfig, WebUI	flush, surface ¹
thevios SAT Occ Lum rH	■	■	■		■				■	theGRID	24 V	uConfig, WebUI	flush, surface ¹
thevios SAT Occ Lum rH IR	■	■	■	■	■				■	theGRID	24 V	uConfig, WebUI	flush, surface ¹

¹frame for surface mounting at option

thermokon®

HOME OF SENSOR TECHNOLOGY

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