

# MICROSENS

the infrastructure behind ideas



**SMART  
SENSOR**

**Precise measurement  
PoE-powered  
Easy integration**

FOR OVER



MADE IN  
GERMANY

# SMALL, SMART AND ESSENTIAL

## The sensor that sees more than you think

Our Smart Sensor accurately records environmental data, forming the basis for energy-efficient, secure, and flexible building automation. It connects systems, adapts dynamically to usage, and enables buildings to „learn“ over time.

Through continuous data analysis, buildings optimize themselves for greater comfort, security, and lower energy consumption.

## SMART SENSOR MODELS

### BASIC

Radar Sensor



Precise measurement

- Ambient light
- Humidity
- Room temperature
- Movement

### MULTISENS

Radar Sensor



Precise measurement

- Ambient light
- Humidity
- Room temperature
- Movement

incl. air quality + bluetooth beacon

### INFRARED MATRIX

Infrared Sensor



Precise measurement

- Ambient light
- Humidity
- Room temperature
- Air quality

Its 64 measuring fields enable it to detect movements and temperature changes on heated and cooled ceilings.

### NEURONLINK2

Sensor



Precise measurement

- Ambient light
- Humidity
- Room temperature
- Air quality

incl. asset management



# SMART SENSOR WITH AND WITHOUT ASSET MANAGEMENT

Environment data collected via the SMART SENSOR creates transparency, optimises processes and increases the efficiency of your building. Whether you need information on room status, data visualisation or asset management, you can gain valuable insights, manage resources more effectively and make the most of your investments.



## HOSPITAL



### Hospital

Precise recording of occupancy, climate and lighting enables an environment that adapts automatically and reliably to the needs of staff and patients.

#### In combination with asset management

medical devices can be located in real time, their condition monitored and their use displayed transparently. This simplifies maintenance processes, shortens search times, and ensures that critical resources are always available.



## AIRPORT



### Airport

Keeping things running smoothly in busy areas: automatic lighting and climate control that dynamically adjusts to passenger flows, while monitoring dwell and movement patterns supports operational planning.

#### In combination with asset management

all assets, from baggage trolleys to mobile service stations, can be located and managed in real time. This minimises the time spent searching for objects and increases their availability.



## HOTEL



### Hotel

For guests, the Smart Sensor means greater comfort: rooms automatically adjust the climate, lighting and atmosphere according to usage and the time of day. At the same time, operators benefit from energy-efficient, demand-oriented processes.

#### In combination with asset management

cleaning and service equipment, as well as mobile hotel technology, are centrally monitored and organised digitally. This makes housekeeping more efficient, maintenance more predictable and operations more transparent overall.

# THE SMART BUILDING SYSTEM

Our smart sensors perform best when used in combination with the appropriate controllers. Whether the application is lighting control or pure data gathering, the system ensures reliable communication and efficient, intelligent building automation.



## Smart Sensor Controller (SSC)

used when sensors only collect data without light control. It can connect up to 12 smart sensors via the NeuronGrid bus and securely transmit motion, light, temperature, humidity and BLE data to the network.



## Smart Lighting Controller (SLC)

Controls LED lights up to 90 W and integrates up to 6 smart sensors. Using radar sensor data such as movement, light level and presence, it enables automatic, demand-based dimming and lighting control.



## Industrial Switch

Creates a robust network backbone with PoE/PoE+ feeding into SLC and SSC. It enables high-availability communication and centralised management via the Smart Director Software.



## 10G Switch

Powerful backbone for large installations with many controllers or sensors. Offers high-speed uplinks, PoE/PoE++, redundancy and central control. Ensures fast data flow from radar sensors to Smart Director or building management systems.



## ADVANTAGES AT A GLANCE

# 01

### Precision

Measurement of temperature, humidity, brightness and other environmental data.

# 02

### Efficiency

Sensors automatically optimise the energy consumption of technical installations

# 03

### Flexibility

Individually configurable and seamlessly integrated into existing systems.





# WE CAN DO MORE

SMART  
SENSOR



SMART BUILDING  
SYSTEM



MICROSENS  
SOFTWARE

As an architect, building planner or property owner, you can rely on our intelligent network of software and hardware components to support your projects, from initial concept to monitoring and controlling your building.

Our sensors and software support you from the early planning phase, providing precise visualisation and technical configuration to ensure smooth operation and faster implementation. Benefit from our many years of market experience and our expertise as developers, manufacturers and suppliers of innovative building technology applications.

01

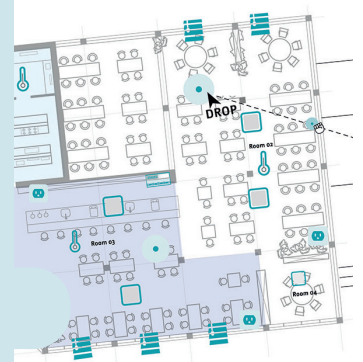
## Planning and visualisation

SMART BUILDING STUDIO



Software for planning and configuring "intelligent" buildings.

All components can be easily added using drag and drop, e.g. smart sensors, lights, switches, controllers.



02

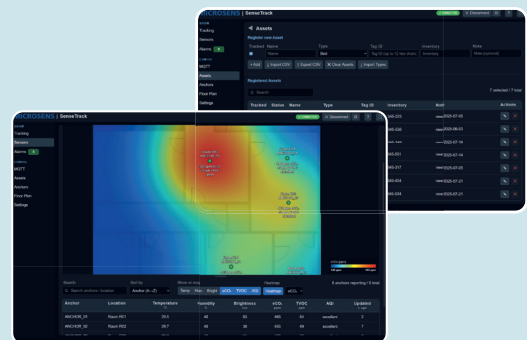
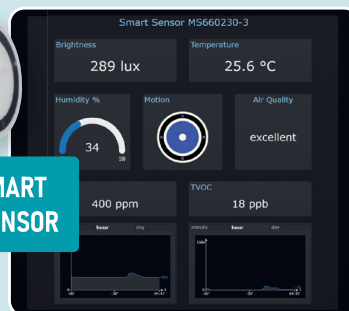
## Sensory analysis

SMART SENSOR

Measures temperature, humidity, motion and brightness, including VOC sensor and Bluetooth beacon



SMART  
SENSOR



03

## Control

SMART BUILDING MANAGER

Software for controlling the building system. Existing digital and analogue devices can be integrated via a Smart I/O controller.



04

## Facts that convince

30%

Energy savings through intelligent control.

100%

Data security thanks to encryption

> 35

Years of experience in network technology + building control

**MICROSENS**

# READY FOR YOUR SMART BUILDING?

## Contact us

During a non-binding consultation, we can present our solutions to you and provide technical advice from the initial planning stage onwards. Together, we will develop the perfect solution for you.

Take the next step



+49 (0)2381-9452-0   [info@microsens.de](mailto:info@microsens.de)   [www.microsens.de](http://www.microsens.de)

## MICROSENS

MICROSENS  
GmbH & Co. KG

Küferstr. 16  
59067 Hamm

Fon +49 (0)2381-9452-0  
Germany - NRW

[info@microsens.de](mailto:info@microsens.de)  
[www.microsens.de](http://www.microsens.de)

Made  
in  
Germany