SMART ROOM SYSTEM
SMART ROOM SYSTEM

OPEN ROOM MANAGEMENT

Perfect connection with system. The new generation of comfort, zone and individual room control. Simply universally applicable for energy efficiency at the highest level.

With our SBS series we offer IoT solutions and services that go far beyond the usual room and building automation.

→   www.openatuomationsystems.store

IoT Solutions and Services
for Smart Automation

open
automation
systems

OAS SBS smart room system

Perfect connection with system.

OAS SBS smart room: Room Control Unit

- Flat, high-quality design
- Extensive family of devices for different applications
- User-friendly, intuitive operation
- Wireless or BUS version

OAS SBS smart room: IoT Base Station

- 24 V and 230 V versions optionally with 4, 8 or 12 zones, with and without ethernet
- Wireless or BUS version
- all-in-one solution for all applications
- Proven, easy installation

OAS SBS Actuator

- 24 V and 230 V in normally-closed (NC) or normally-open (NO) design
- Power consumption of only 1 watt
- 100% water protection for an installation position of 360°
- Proven adaptor concept for 99 % of all valves
- Optionally also with plug-in connection line

With the SBS smart room system, OAS presents a new, universal individual room control system in for heating and cooling applications. Even in its basic version, the system available as a radio and BUS solution meets all the requirements for perfect user comfort.
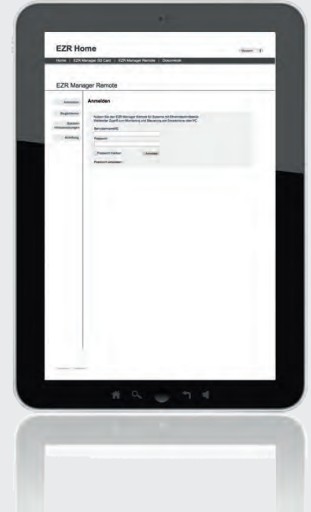
Numerous inputs and outputs as well as measurement, control and regulation functions guarantee optimum, energy-efficient interaction with external devices and systems. The system is primarily used in detached and multi-family houses, functional and administrative buildings as well as hotel areas and schools with central management requirements.

The expansion of the SBS smart room system with new modules ensures a constantly growing range of functions, also for future areas of application such as controlled domestic ventilation.

Coupling via

BUS

868 MHz

Version with Ethernet
interface for integration
into the home network
and worldwide access
via the Internet

Intelligent heating control with the EZR Manager

The base station in integrated into the home network via the optional Ethernet interface.
The software interface of the EZR Manager allows comfortable access to all system settings
and functions via PC, laptop or smart phone during running operation – this makes
room-wise control, programming, set-up and status monitoring easy as a child's play.
The web surface stored in the web server of the Ethernet versions is smart phone-optimised.
It allows mobile access to comfort settings as e. g. temperature, holiday and party function.

Key features at a glance

- communication of the system components via radio (868 MHz radio technology) or 2-wireBUS
- intuitive operation, central programming, simple initialization
- hydraulic adjustment not necessary with professional design
- energy savings of up to 20 % due to intelligent regulation
- various inputs and outputs for interaction with external devices / systems
- optional ethernet interface for simple, room-by-room operation, programming and setting up of the individual room control system as well as visualization of states via PC or smartphone
- MicroSD card slot for system upgrade and upload of system parameters
- bidirectional radio solution for secure communication between system components
- integrated system clock
- individual programming and setting of each heating zone
- LC Display with information on operating states and functions
- perfect interaction of control systems over several floors via serial bus (syBUS) or 868 MHz radio technology
- customer-specific hardware and software solutions
- complete equipment for optimum energy management
- possibility of remote maintenance and remote diagnostics
- Smart Start Function
- new XML interface for easy integration into third-party systems

OAS SBS smart room: Room control unit
Pleasant indoor temperatures

Modern interior design requires control panels that complement today's and tomorrow's interiors. The SBS smart room: Room control units offer timeless, understated design. And they're simple and intuitive to use at the same time.

The room control units give users both customised parameters for each heating zone, as well as general functions and settings in no time. Users can opt for convenience functions like holiday, party and presence. Therefore, they can influence control individually.

High-quality materials and technologies promise a system that users are sure to enjoy for a long time to come. Customised features are of course possible for a specific brand image.

Scratch-resistant plastic

Generous LC-Display
(60 mm x 40 mm)

Flat version (approx. 22 mm) and
small dimensions (86 mm x 86 mm)

AUTO **21.0**℃ **20:15**

open
automation
systems

Comfortable operation via
Rotary knob (turn-push mechanism)
with fine, dynamic detent

Optional design:
Room control unit display with
- Remote sensor
- Design disc

Radio version:
battery life > 2 years

Version BUS:
2-wire bus included
Power supply and
Display backlighting

Key features at a glance

Functions and settings for users such as:
- Day, automatic, present, ECO mode (night status), party function, holiday function with date entries
- 4 pre-set lifestyle time programs
- Target room temperature settings can be restricted
- Date and time with automatic changeover to summer time/winter time
- Low battery warning
- The control can be switched off (frost protection is automatically activated)
- Lock prevents operation in public buildings

Settings for technicians (code-protected) such as:
- Selecting the heating type (including choice of 2-point, or PI system per heating zone)
- Activating active switching between heating and cooling
- Setting frost-protection temperature
- Preventing heating/cooling
- Parameters for pump-/boiler-output can be changed
- Smart start function

OAS SBS smart room: Room control unit
Pleasant indoor temperatures

RBG Display	RBG Analog	RBG Sensor
868 MHz / BUS	868 MHz / BUS	868 MHz / BUS
Standard	Standard	Standard
Remote sensor / floor sensor	–	–
Upcoming: external humidity sensor	–	–

Function

The room control unit with and without display is the operating and control unit of the system. It is used for interaction between the end user and the installer with the IoT base station. In both the radio and the BUS system, the bidirectional transmission of data between the devices ensures the safe transmission of room and operating status data and convenient programming of the system.

Room control unit with display

Both system- and room-specific programming and settings are made via the room control unit with display. The LC display with easy-to-understand symbols offers excellent readability from any position. Operation and navigation is by means of the rotary knob with a high-quality turn-push mechanism and fine dynamic detent known from the automotive industry in the luxury segment. Specific comfort functions such as holiday, party and presence are available. In this way, the sequence of regular operation can be individually adjusted beeinflusst.

Numerous variants for every application

Basically, the room temperature is measured by an internal sensor. The room control unit with display is additionally equipped with a cable-connected floor sensor for floor temperature measurement. A version with humidity sensor is also available. The Analogue room operating unit is available in the standard and room sensor versions.

Our services

Product differentiation through:
- ndividual housing design and colour
- customer specific logo printing
- individual labels, article numbers, Barcodes and packaging

Support during the market launch by:
- Provision of product information like data sheets, manuals and product photos
- Support in the creation of customer-specific documentation and marketing measures
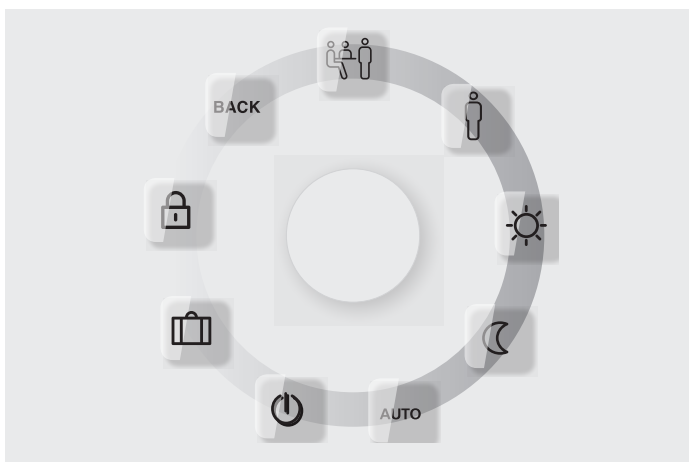
Do you have further wishes?
We will be happy to assist you at any time and clarify with you the possibilities of implementation.

⚙	Basic functions	⚡	Battery	AUTO	Autofunction	≈ Heizen
⚙	Extended functions	⏻	Switch-off function	☀	Daytime operation	🧍 Zu-Hause-Funktion
🔧	Expert level	((•))	Radio	☾	Night operation	👥 Partyfunktion
⚠	Error signal	88.8	Temperature	◊	Dew point	─── Fußbodenheizung
🔒	Parental control	88:88	Date/Time	❄	Cooling	🛄 Urlaubsfunktion

Keep track with an LC display

The SBS smart room system: Room control unit with display stands apart with its functional, language-neutral display. The international symbols ensure intuitive operation. Three menu levels provide all the functions that users or technicians require. As a result, key functions are not altered by mistake.

Navigation

The knob enables easy navigation through the room temperature control unit's intuitive menu structure. Turning the knob to the left or right alternates between the different functions. By pressing the knob, these are activated, deactivated, and selected for further configuration.

Floor temperature monitoring

The room control unit's display monitors the floor temperature through a wired remote sensor. This prevents the floor from cooling down while the room's heated by a stove for example.

OAS SBS smart room: IoT Base station

Very user friendly due to intelligent technology

The SBS smart room: IoT Base station are the intelligent control and connection units for centralised data processing and communication with all the SBS smart room system's components.
They capture and analyse a large amount of measurement data for customised, energy-efficient temperature control in every room and a maximum of user-friendliness.

Even in the standard design, the advanced system software complies with all the demands of today's and tomorrow's systems. Changes and updates to a changing technological environment are easy with a microSD card slot.
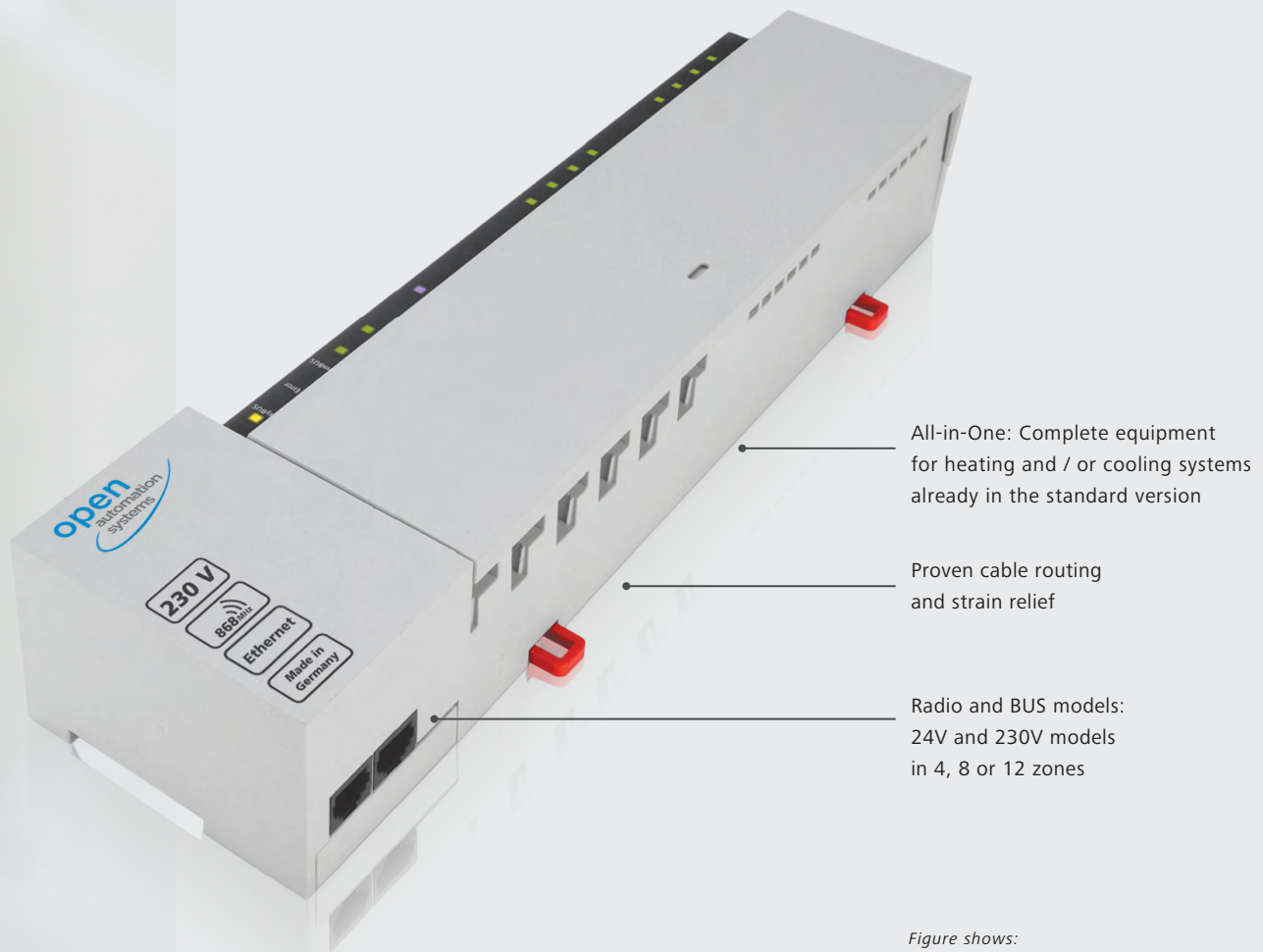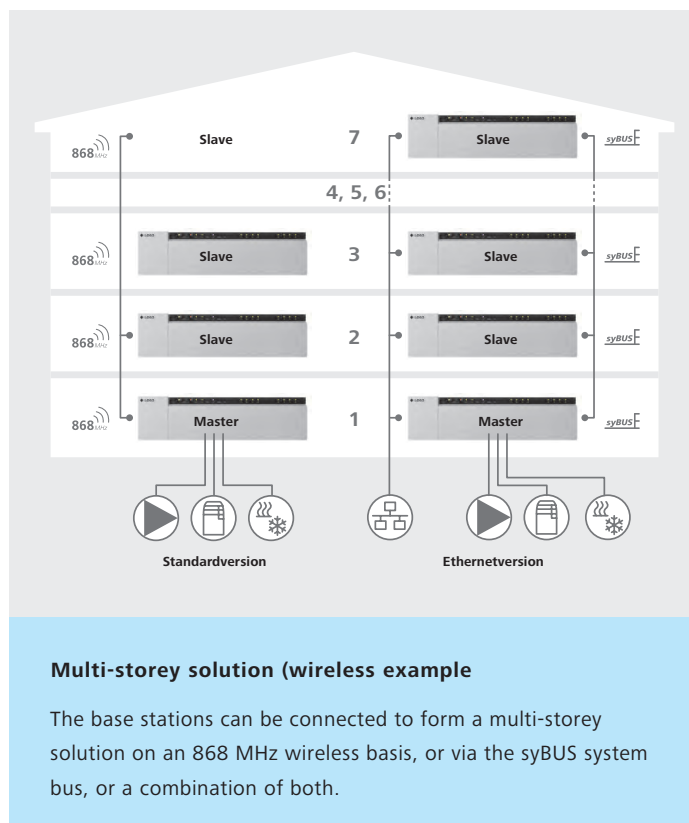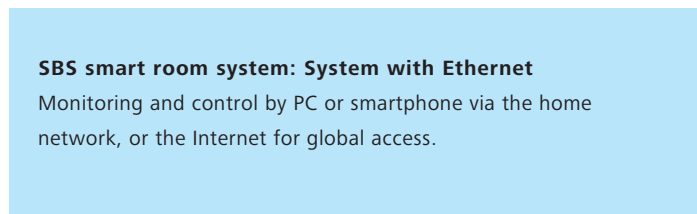
All-in-One: Complete equipment
for heating and / or cooling systems
already in the standard version

Proven cable routing
and strain relief

Radio and BUS models:
24V and 230V models
in 4, 8 or 12 zones

Figure shows:
OAS SBS smart room: IoT Basic-
station radio 8-channel

Key features
at a glance

- Up to 18 SBS Actuator 5, 1 to 2 per zone, can be connected
- LED status displays: 9 system LEDs / 1 LED per zone
- Different control algorithms per heating zone adjustable
- Designs with Ethernet interface
- Multi-storey solution that connects up to 7 base stations wirelessly or per serial BUS (syBUS
- System's status (NC/NO) configurable in the factory or on site
- Decrease in temperature (ECO mode) per room via an integrated system clock, or centrally via an external switching signal
- Operating modes (frost protection, heating, cooling, ECO, automatic, emergency)
- Pilot function for heating and cooling
- Boiler output
- Dew point monitoring
- Valve protection function can be configured on all outputs
- Integrated, configurable pump module including pump-protection function
- Connection for a safety temperature limiter
- Transformer body in a matching design (in the 24 V version)
- Accessories like external antenna or repeater

OAS SBS smart room: IoT Base station

Very user friendly due to intelligent technology

SBS smart room system: System with Ethernet

Monitoring and control by PC or smartphone via the home network, or the Internet for global access.

Multi-storey solution (wireless example

The base stations can be connected to form a multi-storey solution on an 868 MHz wireless basis, or via the syBUS system bus, or a combination of both.

Function

SBS smart room: IoT Base station capture and analyse a large amount of measurement data for customised, energy-efficient temperature control in every room and a maximum of user-friendliness. Reliable, bi-directional communication between the relevant room control units, base stations and actuators connected is provided in the various designs by 868-MHz wireless technology, or the 2-wire BUS. Control behaviour can be adjusted, so that various sources of heat, such as convectors and radiators, can therefore be controlled simultaneously in one system

Compliant with DIN EN 60730-1:2009-6

There is no limit to fitting locations due to strain relief that complies with the standard. Installation with a top-hat rail is carried out on walls, or in the heating distribution box. Separate strain relief is unnecessary.
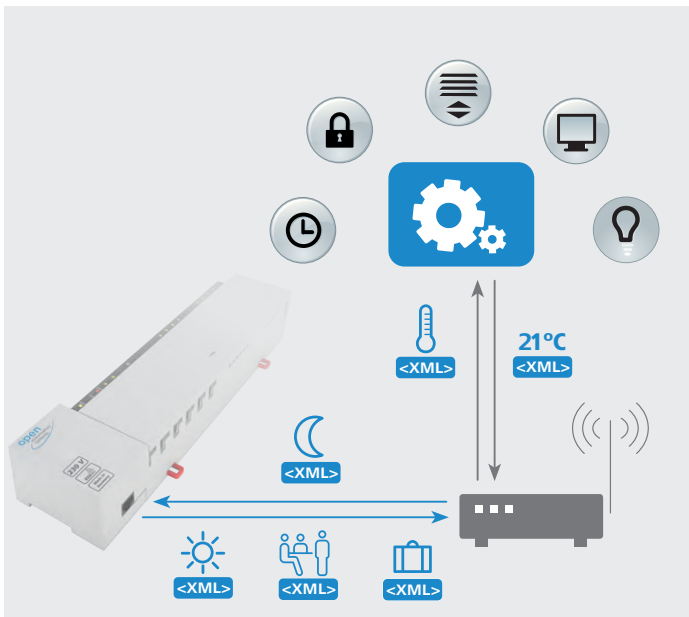
Smart Building ready

The Ethernet versions of the base stations not only allow control of the SBS smart room system locally through a home network or worldwide via the Internet. Thanks to Smart Building ready the system is convenient to c onnect via an open XML interface to existing home automation systems. In this case the home automation system discretely takes care of the control process. Existing components such as door/window contacts are used without any problems to control the SBS smart room system.

Flexible expansion and updating

Due to the flexiblen hard- and software structure of the system, future system expansions are easily possible. Kundenspezifische wishes are of course taken into account. The software is adapted and updated via the integrated MicroSD card slot. This means that new features and components can be integrated into the system in no time at all.

Our services

Product differentiation through:
   ndividual housing design and colour
   customer specific logo printing
   individual labels, article numbers,
   Barcodes and packaging

Support during the market launch by:
- Provision of product information like data sheets, manuals and product photos
- Support in the creation of customer-specific documentation and marketing measures

Do you have further wishes?

We will be happy to assist you at any time and clarify with you the possibilities of implementation.

Perfect integration into building automation through XML interface

Via the XML interface, the SBS smart room system can be easily integrated into higher-level building automation systems. The existing home network can be used (router, WLAN, switch etc.). Integration scenarios in the building control system and with EIB / KNX applications are also feasible.

All-in-One - for all applications

Even the standard version of each base station is suitable for all heating and cooling applications are fully equipped.
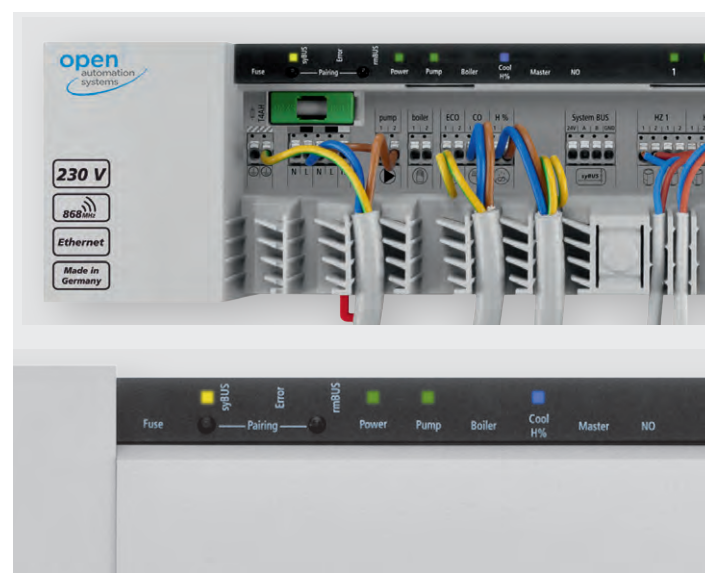So the right choice of unit is no problem right from the start.

MicroSD Card-Slot

The base stations have a MircoSD card slot for firmware upgrades or for a convenient and clear online parameterization on the PC.

Ethernet interface (optional)

- easy integration into the home network & worldwide access
- web-based application software "Zone Manager" for comfortable control and visualization of the conditions via PC or Smartphone
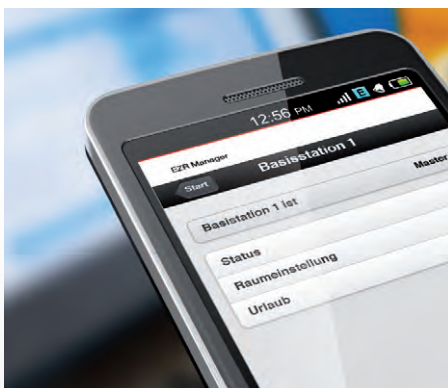- XML data exchange with any external systems

Simple installation and commissioning

Clear connection with system through the proven cable routing and strain relief of the smart room basic product family and the screwless Plug/CI connection technology guarantees fast, safe installation.

Everything under control

The status of the running operation as well as the perfect functionality is always visible by LEDs: Operating status, NO/NC, fuse, pairing, cooling, system error, alarm, heating zone, dew point.

IoT Solutions and Services for Smart Automation

Service and performance range

We offer OAS SBS customers application-oriented consulting and technical support around our products and systems. Product information such as data sheets, manuals, product photos and various print documents for download.

As a specialist dealer for technical building automation systems, we offer you a well thought-out product portfolio of proven and innovative technology. Reliability, proximity to the customer and our ever-growing know-how in this sector are our hallmarks. We are your strong partner for the realisation of your project. With innovative products, systems and services, qualifiziertem service and the high commitment of our employees, we already work according to the future-oriented and worldwide standards for automation solutions.

Marketing advantages

Building automation is becoming more and more common in modern buildings and many areas would be unthinkable without it.

The automation of heating and cooling within the scope of building automation is contemporary and is an essential comfort aspect for the user. The OAS SBS smart room system offers customers a significant added value in system supplementation. In addition to the interesting price/performance ratio, the high-grade appearance and quality and the easy installation and commissioning, it offers new options in room and building automation.

Differentiation

The system components of the OAS SBS smart room system allow you an individual appearance on the market by a multitude of differentiation possibilities. By tailor-made solutions you strengthen your brand and secure competitive advantages.

Tell us your requirements and we will find together with you the possibilities of realization.

Your distributor for technical building equipment and building automation

Individual solutions for intelligent buildings - we offer you everything you need. From the automation and control technology of your lighting and façade control up to the auto of the heating, ventilation and air conditioning system, we offer you both individual components and also standardized and proven complete solutions.
Due to our long experience in the field of process and building automation we are pleased to offer you to advise you accordingly.

Our product range covers automation applications for both the home and the commercial sector. area. As a specialized trade we offer our services to commercial specialized companies for the technical building equipment. OAS sees itself as a distributor for authorised partners and Professional customers.