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SAUTER FACTS

The magazine for SAUTER customers



Focus topics

Digital room automation for greater energy efficiency and increased user comfort.

Artificial intelligence in building automation.

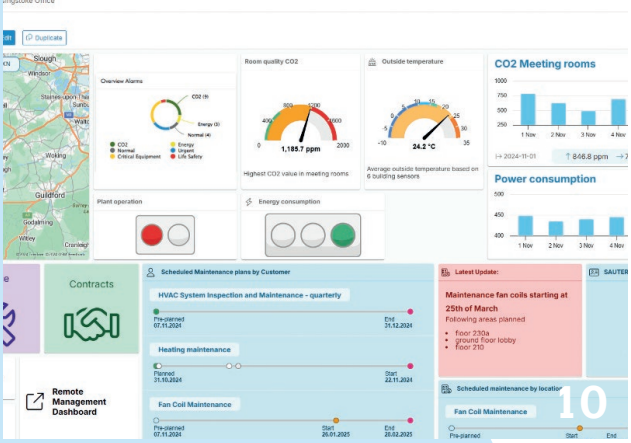
Smart building management with Customer Portal and Remote Management.

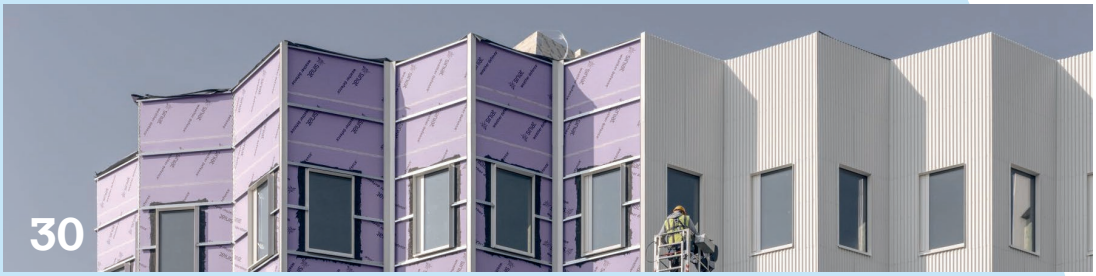
Four references

Projects in hospitals, municipal buildings and office buildings demonstrate intelligent solutions for sustainable operation.

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Dear Customers and Business Partners, Dear Readers,

Today, more than ever before, buildings are key living and working spaces – places to meet, learn, heal and create. At the same time, they face major challenges: energy efficiency, climate protection, digitalisation and increasing comfort demands call for new innovation. Therefore, smart building automation is the key to sustainable, flexible and future-proof property.

At SAUTER, we firmly believe that only by integrating all the functions in a room – indoor climate, light, shading – can we develop truly efficient solutions. Our room automation achieves precisely this integration: with innovative technologies, like smart shading, modular ecos room controllers and an open systems approach, we are setting new standards. In addition to outstanding user comfort, our solutions also ensure energy saving and operational safety – in line with the EN ISO 52120 standard and VDI guidelines 3813/3814.

Nowadays, modern building technology enables far more than just control – it creates a basis for healthy, adaptable and therefore sustainable spaces. It combines technical precision with architectural quality and significantly contributes to making the life cycle of real estate more resource-efficient.

But smart buildings don't just offer technology. With our digital services – from the SAUTER Vision Services cloud platform to remote management and intuitive mobile apps – we create digital added value for operators, facility managers and users. These services enable flexible control of spaces, analysis and optimisation of energy data – at any time, regardless of location and without your own IT infrastructure.

The projects we present in this issue – from state-of-the-art hospital management to energy-optimised municipal buildings and smart office buildings – show how versatile and practical our solutions are. They also demonstrate what can be achieved with a holistic approach to building automation: Rooms that help you think. Systems that grow with you. Technology that puts people first.

We thank you for your trust, your cooperation and your interest in our innovations. Let's continue working together on the future of sustainable, safe and comfortable smart buildings.



Yours, Werner Karlen, CEO

GRUPO KING

SAUTER Group

Grupo King – a strong new member of the SAUTER Group

The SAUTER Group has been collaborating with Grupo King since 2024. The acquisition of one of Portugal's leading suppliers of HVAC and building management systems marks another milestone in SAUTER's ongoing growth strategy.

By integrating Grupo King, the SAUTER Group is strengthening its local presence in Portugal and taking another key step in its broader European expansion. With this Portuguese company, it has gained an established partner with impressive expertise in energy management, building management and building automation.

Founded in 2013 in Leiria, Portugal, Grupo King is now recognised as one of the country's leading providers for installation, maintenance and sale of materials for technical building systems. Its primary focus is on building management systems (BMS) and systems for heating, ventilation and air conditioning (HVAC). The team headed by Managing Director Tiago Trindade now comprises around 170 employees, with branches in Lisbon and Loulé. The company has demonstrated the excellence of its services and innovative building solutions through its successful participation in numerous major national projects, earning a strong reputation throughout Portugal.

Grupo King's in-depth expertise, proximity to customers and regional presence will further boost SAUTER's proven and reliable solutions in the Portuguese market. For customers, this means even more reliable and responsive services, a broader portfolio of integrated system solutions and access to innovative, pioneering technology.



"Our integration into the SAUTER Group is in full swing. Both teams are working closely together […]. This will enhance both the value of our company and its long-term sustainability. We are confident that this collaboration […] will strengthen our market position and lead us to an even more promising future."

– Tiago Trindade

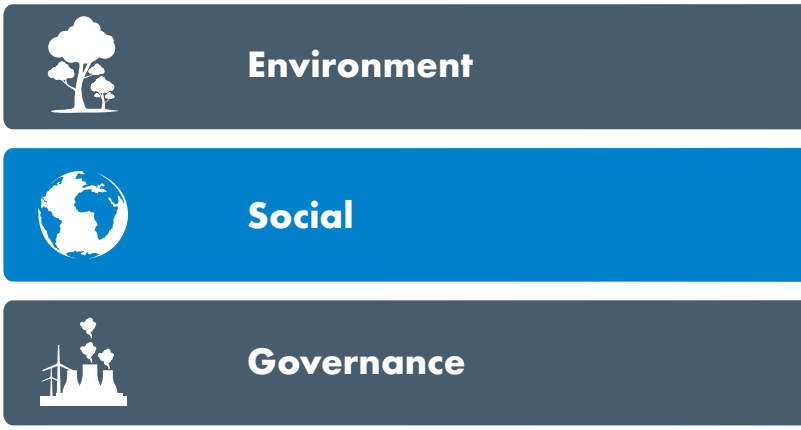
A shared focus on sustainability and efficiency

For SAUTER, future-oriented solutions must not only be smart and innovative but also defined by sustainability and energy efficiency. Grupo King wholeheartedly shares this vision. The acquisition thus represents more than just a strategic expansion, it also helps further advance sustainable and efficient buildings for the future. Together, SAUTER and Grupo King are dedicated to rigorously pursuing environment, social and governance (ESG) criteria in order to serve customers as reliable and environmentally conscious partners.

ESG criteria encompass the three pillars of sustainability:

They reflect how companies embed climate protection, social responsibility and transparent structures in their operations.

For investors, partners, and customers, they serve as a benchmark for future viability and reliability – for example, through the use of sustainable materials or targeted reduction of emissions.



What does this mean for the partnership?

By combining their expertise and technical know-how, SAUTER and Grupo King will further develop existing products and services while creating innovative new solutions that contribute even more significantly to a responsible future in the real estate sector.

The first joint success

The first joint project is already successfully underway. With an impressive contract volume of €5 million, it once again highlights Grupo King's technical expertise and strong regional reputation.

Located in Leiria, near Grupo King's headquarters, GEBI – a centre for healthcare and laboratory equipment – will meet the highest standards of efficiency, safety and sustainability. The facility will be equipped with comprehensive system solutions for state-of-the-art, high-performance building operation. These include cutting-edge HVAC systems and a fully integrated building management system. While Grupo King is planning and implementing the complex HVAC installations, SAUTER Portugal is delivering the required building management system. Spanning nine floors and approximately 12,000 m², there will be more than 5,000 data points to control around 200 fan coil units. The integrated system design allows automated, highly efficient and reliable building management.

The project is a promising start to a successful partnership between the two companies. It also powerfully highlights their shared commitment to high-performance, efficient system solutions.

Profile of Grupo King

Company founded:	2013
Headquarters:	Leiria, Portugal
Employees:	Approx. 170
Revenue in 2024:	€21,7 million

Specialisation:
System solutions for building management and automation, in particular BMS and HVAC

www.grupoking.pt



ELECTRACOM

SAUTER Group

COMMON VALUES, SHARED STRENGTH

From Basel to London: Electracom joins the SAUTER family.

The SAUTER Group is strengthening its presence in the United Kingdom. With Electracom Projects, a specialist in integrated building management solutions, the SAUTER Group welcomes a strong new member that shares its core principles.

Quality, efficiency and innovation are the values that form the foundation for intelligent solutions in building automation and building services at the SAUTER Group. With the acquisition of Electracom Projects, the Group welcomes another strong member that fully aligns with its strategic orientation.

In more than twenty years of business, Electracom has earned an excellent reputation in its home market of the United Kingdom as a reliable and proven partner for integrated building management solutions. Its services include planning, developing and installing integrated system solutions for intelligent building and energy management, automated controls, data cabling systems and electrical installations.

Electracom was founded in 2003 in Burnham, Buckinghamshire, UK. Today, the company employs around 60 people at its headquarters and a branch office in London. With two decades of expertise and experience, Electracom has successfully delivered numerous projects, including some of the most impressive building complexes in the UK. Both the London Olympic Stadium and the iconic office buildings of Triton Square, the large-scale urban development project in the heart of the capital, feature state-of-the-art management solutions that were designed, delivered and installed by Electracom to meet the demanding project specifications. These major projects are just two of many examples that reflect the outstanding quality, attention to detail, flexibility and transparency of Electracom's systems and services.

uk.globaldatabase.com

www.electracomprojects.com

Tailored system solutions with innovative technologies

The requirements and objectives of real estate projects are as different as the buildings themselves. Electracom understands that every project is unique and requires its own approach. Based on the specific project conditions, the optimal solution is developed for maximum building operation efficiency. Cutting-edge measurement and monitoring technology is always used to ensure future-proof control of automation processes and continuous optimisation of building efficiency.

Alongside efficient building operation, user safety and comfort are central to every project. By contin-uously developing technical standards and established solutions, Electracom works to meet the needs of all stakeholders with even greater precision. In addition to proven building automation technologies such as BACnet, the company also embraces pioneering innovations. Through advanced approaches such as artificial intelligence, edge computing, cloud computing and Industrial 5G, its smart solutions play a key role in the digital transformation to innovative smart buildings.

Electracom offers more than just planning, implementation and commissioning. The company supports building operation with proactive services. Its intelligent time and maintenance service provides scheduled inspections to minimise downtime and the associated costs. Regular updates of the hardware, software and firmware ensure that system performance is always maximised. Professional support is also available to operators around the clock in the event of unexpected incidents.





Kerry Overman
Managing Director of Electracom

08

Electracom and the SAUTER Group share a common corporate philosophy:

Both focus on innovative integrated solutions that increase efficiency and comfort and are equally committed to environmental responsibility and sustainability.

All Electracom's intelligent solutions are designed for low energy consumption, high energy efficiency and a long service life. Its commitment to these values is reflected, among other things, by its membership in the "Building Controls Industry Association" (BCIA).

BCIA – "Building Controls Industry Association"

is the leading trade association for building automation and control technology in the UK.

Its roughly 200 member companies – including Electracom – are committed to creating and promoting environmentally friendly and energy-efficient buildings.

By developing intelligent automation solutions, the goal is to create smart buildings characterised by outstanding energy efficiency, optimised operating costs, maximum environmental compatibility and strong appeal to investors, operators and users.

www.bcia.co.uk

Electracom Connect: Expertise in converged network systems

Today's smart buildings require carefully integrated systems with reliable connectivity and interaction between individual applications. To address this need with even greater focus in future, Electracom recently added a new business unit. Electracom Connect is a specialist unit dedicated solely to designing, installing and providing support for converged network systems. The aim is to make smart buildings even more reliable, efficient and user-friendly in future. This strategic expansion is a key milestone in the company's evolution and adaptation of business activities to the dynamic needs of the building sector.

The new business unit underlines Electracom's commitment to innovation and technical advancement, always with the aim of fully and optimally meeting customer needs. These are values that the SAUTER Group consistently upholds in its own approach. SAUTER and Electracom are forming a partnership on an equal footing, united by shared values and goals. Their combined expertise promises to deliver fresh momentum for efficient and reliable system solutions that will transform buildings into the smart buildings of the future.



Profile of Electracom Projects (UK) Ltd.

Company founded:	2003
Headquarters:	Burnham, Buckinghamshire, United Kingdom
Employees:	Approx. 60
Revenue in 2025:	£26.5 million

Specialisation:

Smart buildings powered by building automation, with a focus on building management systems (BMS), energy management systems and converged network systems

www.electracomprojects.com

CUSTOMER PORTAL and REMOTE MANAGEMENT

Smart solutions for digital building management

Digital solutions are key to ensuring the long-term viability of property operations. They increase efficiency in building processes and help to achieve sustainability goals. SAUTER's cloud-based digital services open a window into the future of building management.

Ambitious climate goals and the urgent need to cut greenhouse gas emissions pose major challenges for the real estate sector. Digitalisation of building management is an essential tool for meeting legal requirements, reducing CO_2 emissions and lowering operating and energy costs. It offers many benefits, including real-time building data, remote system control, automated adjustment processes and smart operating options. SAUTER's modular, cloud-based digital services offer a proven pathway to future-ready building operation. The SAUTER Customer Portal and SAUTER Remote Management are key components, but what specific advantages do these two services deliver?

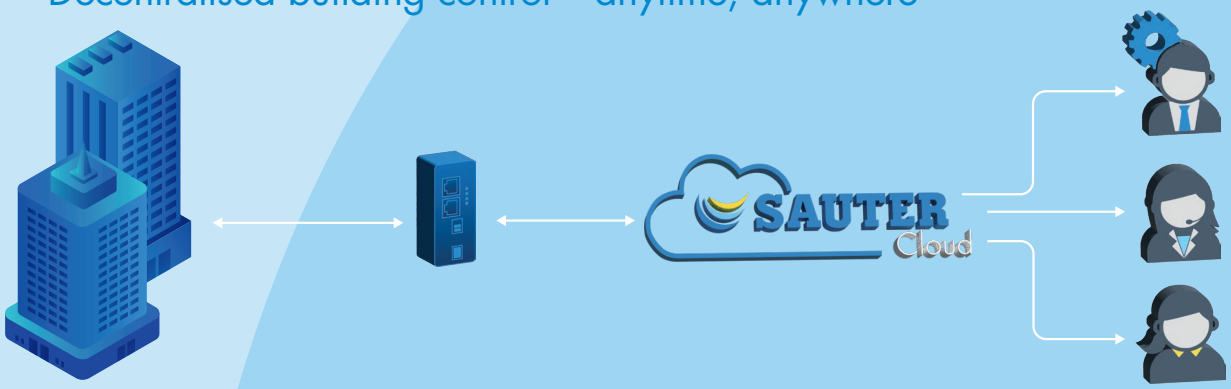
Customer Portal: Comprehensive building information at a glance

Acting as a central platform for SAUTER building automation projects, the SAUTER Customer Portal provides a complete overview of all relevant project data. This cloud-based web application gives asset and service managers access to contract and contact details, as well as consolidated building information including live data on system performance, comfort levels, utilisation, energy consumption and costs. Key status information, performance indicators, maintenance schedules and servicing information are displayed in a personalised, configurable dashboard. Clear data insights combined with automated alarms and suggestions for optimising operation ensure maximum transparency and efficiency. This enables users to identify deviations from normal operation at an early stage and make improvements when needed. Integrated remote access via SAUTER Remote Management allows system access from any location.

Connected to the SAUTER cloud and delivered as a Software-as-a-Service (SaaS) solution, the SAUTER Customer Portal offers maximum flexibility. Access is via any web browser, making it independent of hardware, operating system and location. Encrypted communication via HTTPS with two-factor authentication ensures the highest level of security.



Remote Management: Decentralised building control – anytime, anywhere



SAUTER Remote Management is a valuable component of the digital service portfolio and not only in conjunction with the SAUTER Customer Portal. It enables active, immediate delivery of services related to building automation, energy management, IT infrastructure and software applications. Building operators and facility managers can remotely access and actively control decentralised systems and applications at any time and from any location. This allows faster identification of issues and rapid resolution of faults. Services such as commissioning, maintenance and application upgrades can also be provided conveniently and efficiently from a different location.

As a SAUTER Cloud service, access is via a network connection using a browser and a Windows client. Secure communication is ensured using application protocols such as HTTPS, RDP/VNC and VPN. Extra security is provided by comprehensive user management and two-factor authentication.

SAUTER Remote Management offers exceptional flexibility with subscription models tailored to individual customer needs. The only requirement is to install the Remote Management Connector and a VPN connection to the SAUTER Cloud. The Remote Management Connector acts as a universal gateway, whose interfaces were expanded this year and now include BACnet/IP, BACnet/MSTP, Modbus TCP and RTU. This means that existing or third-party systems can be integrated using standardised communication protocols. More than ever, SAUTER Remote Management serves as a central platform for importing and exporting data from all building automation systems.

Knowledge in brief: Advantages of digital building management

Cost savings through automation:
Automated control of building processes such as heating, lighting and maintenance reduces resource consumption and operating costs.

Improved energy efficiency:
Intelligent, real-time analyses and automatic adjustments align energy use to actual requirements – reducing consumption and supporting sustainability targets.

Data-driven decisions:
Smart sensors and software provide precise usage and status information as a solid basis for strategic planning.

Enhanced appeal:
Features such as smart space utilisation, real-time monitoring and personalised settings improve user comfort, thus increasing the property's market value.



THINK GLOBAL ACT LOCAL

The value of international trade fairs

From India to Dubai to Germany, the SAUTER Group is present at leading international trade fairs, picking up on trends, reinforcing partnerships and expanding networks. Innovations, global best practice and market developments thus flow directly into projects, driving building automation onward.

Building automation is not just a local issue. Across the world, the key questions are the same: How can energy consumption and CO_2 emissions be sustainably reduced? How can digital technologies enhance the efficiency and convenience of building operation? Many of the answers are provided at leading international trade fairs, where manufacturers, planners, operators and investors meet to exchange ideas and collaborate on shaping the properties of the future. For the SAUTER Group, being present at these platforms is more than just a matter of global visibility. It reflects a commitment to staying ahead of international trends and turning them into practical solutions.

India

A dynamic market with enormous potential

With 1.46 billion inhabitants, India is the most populous country in the world and a market on the rise. The surging demand for residential and commercial space, combined with investor-friendly conditions, is attracting international companies from many different sectors. This increases the demands placed on modern building technology and automation. All this means ACREX 2025 in Bangalore stood out as a key industry event for the SAUTER Group. As South Asia's most important platform for building technology, HVAC and automation, it brings together experts and global market leaders. SAUTER showcased energy-efficient room automation, intelligent sensors and smart actuators.

Thailand

First appearance, strong impetus

South East Asia is also seeing rising demand for sustainable buildings and intelligent technology and with over 71 million inhabitants, Thailand is a particularly dynamic market. At NOVA 2025 in Bangkok, the SAUTER Group had its own stand for the first time, sending a clear signal of its commitment to the region. Together with its partner Climate Innovation, it showcased the use of smart sensors and actuators in AHU (air handling unit) systems. Using virtual reality glasses, visitors were able to experience practical scenarios and see sensor data in real time thanks to the integrated moduWeb Unity web server, a tangible example of how digital services and modern building technology interact.

Middle East

A strong presence in a region full of opportunity

The SAUTER Group has long been a key player in the Middle East with projects ranging from residential buildings, hospitals and shopping centres to airports and entire city districts. Dubai remains a particular focal point. Renowned for its skyscrapers, the metropolis is a symbol of modernity and technical excellence. Many of its landmark buildings are equipped with SAUTER solutions. At the leading trade fairs Big 5 Global and Intersec, the company regularly demonstrates its expertise in building automation, decarbonisation and security, always in close cooperation with local partners.

SAUTER is also active beyond the Gulf region: In Tel Aviv, Israel, partner Elcon presented SAUTER's comprehensive range of valves, actuators and sensors at ACLIMA 2025. At INTERBUILD Near East 2025 in Amman, Jordan, SAUTER and its partner Nerotech presented intelligent solutions such as the SAUTER Smart Actuator, the modulo 6 building automation system and the innovative viaSens multi-sensor, attracting a great deal of interest from trade visitors.



Germany

ISH as a hotspot and leading industry trade fair in Europe

In March 2025, the SAUTER Group was at ISH in Frankfurt – the leading trade fair for water, heating, air conditioning and building automation. Digitalisation and decarbonisation were key themes of the event, highlighting key future topics in the industry. For SAUTER, ISH provided the perfect platform to present innovations, extend dialogue with specialist planners and operators, and reinforce its position as a leading international solution provider.

France

At the IBS 2025 trade fair in Paris, SAUTER showcased itself as an innovative partner for smart building automation and energy management. The trade fair provided an ideal platform for presenting modern solutions for efficiency, sustainability and digitalisation while fostering dialogue with industry experts.



Global presence, tangible value

Through its successful trade fair appearances, the SAUTER Group continued to strengthen its international focus in 2025, delivering direct value for customers in the process. Global dialogue enables early access to innovation at the regional level. Insights from diverse markets around the world evolve into transferable best practises. A global presence fosters proximity and reliability in all key regions, while active participation in shaping global standards strengthens investment security and future viability. This makes international focus a key driver in sustainably advancing building automation.



Knowledge in brief: Building automation trends at trade fairs in 2025

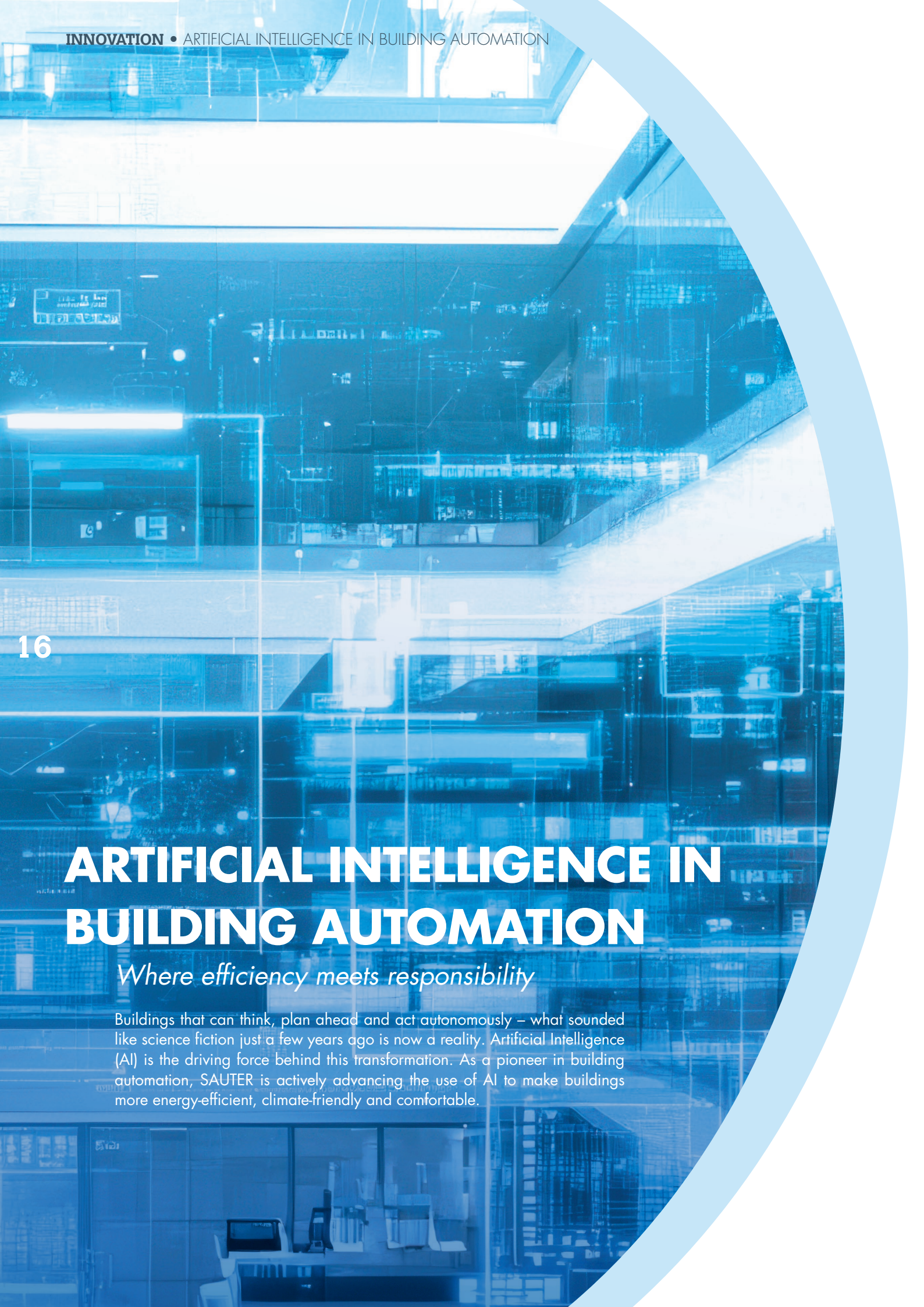
Artificial intelligence:
AI-based solutions are set to make buildings even more energy-efficient, sustainable and convenient, while also enabling more informed decision-making.

Energy management:
Real-time monitoring and intelligent control greatly reduce energy consumption and costs while sustainably improving carbon footprint.

Comfort:
Smart room automation ensures ideal conditions at all times, automatically adapting to user presence and preferences.

User-friendliness:
Digital services simplify the control of building processes. Intuitive, accessible user options, such as apps or voice control, further boost satisfaction and productivity.

Space optimisation:
Flexible room configurations enable optimal use of space and increase cost-effectiveness. Real-time usage data supports efficient planning.



ARTIFICIAL INTELLIGENCE IN BUILDING AUTOMATION

Where efficiency meets responsibility

Buildings that can think, plan ahead and act autonomously – what sounded like science fiction just a few years ago is now a reality. Artificial Intelligence (AI) is the driving force behind this transformation. As a pioneer in building automation, SAUTER is actively advancing the use of AI to make buildings more energy-efficient, climate-friendly and comfortable.

Artificial intelligence is set to fundamentally change building automation. AI can not only capture data and information in real time, but also interpret it. This allows it to identify data-based patterns and relationships in order to make forecasts and automatically adjust systems – whether for power supply, air conditioning or lighting.

The strength of AI is its ability to integrate data from a wide range of sources – from temperature and presence sensors to weather forecasts, energy prices and maintenance information. Intelligent algorithms convert raw data into specific recommendations for action and automate control processes. This enables technical building processes to operate based on actual demand and be continuously optimised. This results in substantial energy savings, a reduced carbon footprint and enhanced user comfort. For operators, it means lower costs, improved operational efficiency and stability, and a future-ready infrastructure that adapts flexibly to change.

From analysis to enhanced value creation

Going beyond conventional AI, generative AI in particular holds enormous potential for building management. By independently learning from analysed data and recognised patterns, it can generate entirely new data and content. This enables it not only to optimise existing processes, but also to anticipate and evaluate possible future scenarios through simulations. Even in the planning stages of building projects, efficiency potential can be identified and operational strategies tested. AI thus becomes a strategic tool that intelligently connects planning and operation, creating sustainable added value.

SAUTER is rethinking buildings – with artificial intelligence

A pioneer in building automation for decades, SAUTER views AI as a strategic foundation. The aim is to use intelligent solutions to support the entire life cycle of a building – from planning through to operation.

For instance, during commissioning, advanced tools like the CMC Manager software enable automated testing and validation of building systems. This reduces errors, increases reliability and significantly brings forward the start of use of the building.

During operation, algorithms analyse the performance of heating, ventilation, cooling and lighting systems in real time, flexibly and automatically adjusting them as needed. They dynamically detect occupancy patterns and changes in energy prices and the weather, always ensuring maximum comfort with minimum energy consumption and cost. Since 2021, the meteoviva climate smart data solution has been enabling automatic room climate optimisation using intelligent, self-learning, building-specific simulation.

Another example of AI-powered automation are the self-learning optimisation functions OPT-H and OPT-C. They automatically analyse room usage patterns and proactively calculate the ideal start and stop times for heating and cooling systems. This saves energy, reduces costs and CO_2 emissions and ensures comfort exactly when it is required.

Voice control via common smart home assistants makes building functions especially easy and accessible to operate. Whether in private homes or commercial settings, users benefit from intuitive, convenient and universally accessible control.



AI-powered decarbonisation

Guiding real estate into a climate-neutral future is one of the greatest challenges of our time. With amanteia – a joint development by SAUTER and meteoviva – property owners and managers now have an effective AI-based tool for targeted decarbonisation of building portfolios. The innovative software solution automatically evaluates and calculates optimal decarbonisation strategies. Even with limited building data, intelligent renovation and investment plans can be developed using smart data models and a wide range of predefined action templates. In this way, amanteia supports informed investment decisions, avoiding carbon-risk assets and increasing the long-term value of the buildings.

Focus on people and the environment

Despite all the advances in artificial intelligence, people and the environment remain central to SAUTER's approach. All AI decisions are transparent, humans retain control at all times, and the technology is designed to support CO_2 reduction. This means SAUTER is already creating measurable added value for operators, users and the environment.

Knowledge in brief: Fundamentals of artificial intelligence

AI refers to the capability of machines to process data, learn from it and make independent decisions.

Key components:

- Information processing – Analysing sensor data such as temperature or movement
- Knowledge acquisition – Identifying patterns and making forecasts
- Automated implementation – Deriving and carrying out specific actions

Generative AI expands these capabilities: It generates new content, such as control logic or simulations, based on learnt patterns. In building automation, this allows predictive control, optimised planning and more efficient operation

meteoviva
Pioneers of Decarbonisation

Optimal room climate with minimal energy costs and carbon footprint – intelligent, self-learning and building-specific simulations automatically optimise building control. This smart data solution addresses the needs of users, operators and investors alike.

Smart:
Accurate, simulation-based determination of precise heating, cooling and air requirements using intelligent data models

Specific:
Optimisation based on various target criteria such as room climate, energy consumption and CO_2 footprint

Sustainable:
Potential reduction of up to 40% in CO_2 emissions and energy costs

Secure:
Data security and data protection certified in accordance with DIN ISO 27001

Software as a Service:
Maximum system availability and comprehensive service through a subscription model

www.meteoviva.com

amanteia
Making decarbonisation actionable.

This innovative software solution helps owners and managers effectively decarbonise buildings. The AI-powered tool delivers analyses and specific recommendations, including detailed action planning – all with just a few clicks.

Intelligent data fusion:
Accurate profiling and forecasting by combining building-specific data such as year of construction, building physics and system technology with dynamic data such as energy consumption, climate trends and national regulations

Specific recommendations:
Automatic identification of individual investment and renovation strategies using predefined, customisable action templates, taking budget and implementation priorities into account

Effective support:
Solid basis for investment decisions, avoiding carbon risk assets and increasing long-term value

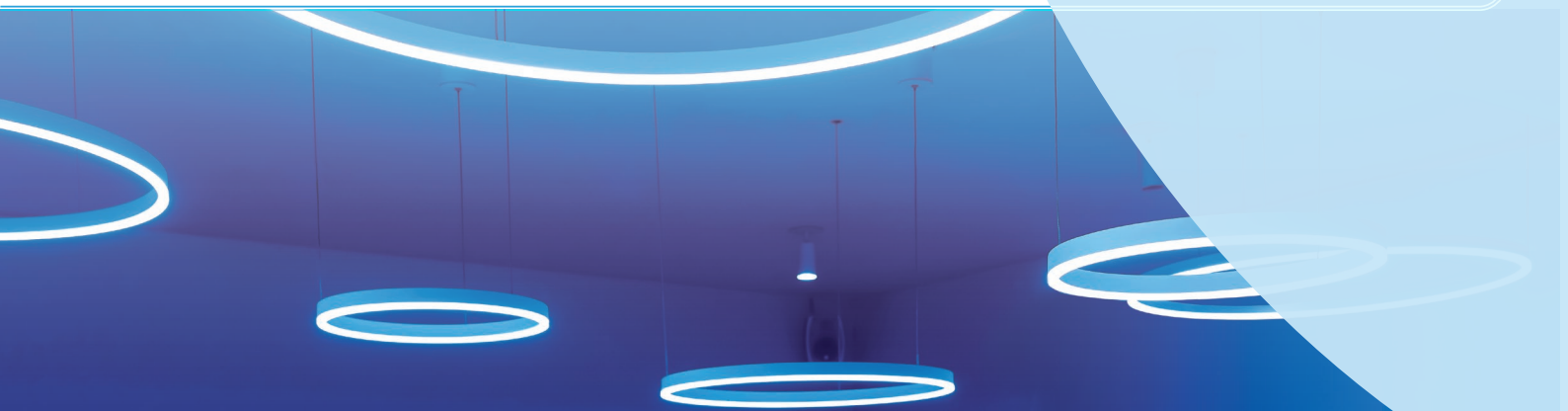
Simple quick start:
Initial analyses possible with just a few basic inputs

Portfolio-level planning:
Multidimensional optimisation methods for entire portfolios

Software as a Service:
Full range of services through a convenient subscription model

Joint development
by SAUTER and meteoviva

www.amanteia.com





ROOMS THAT THINK AHEAD

Integrated room automation for optimum comfort and energy efficiency

Imagine stepping into a room that anticipates your needs before you even tell it what they are. The blinds are lowered before the sun becomes a glare. Fresh air flows in before you reach for the window. The light adjusts imperceptibly – sometimes warm, sometimes bright, but always just right. It's not magic, but cutting-edge room automation from SAUTER.

Buildings are where we live, work and spend our free time – which means they are crucial for our well-being and productivity. Yet in the EU, buildings account for around 40% of all energy consumption, with around 80% of that used for heating, cooling and hot water. To increase energy efficiency it is vital to focus on the source of demand: the rooms themselves. This means room automation plays a key role in building automation. It combines comfort and energy efficiency by intelligently regulating temperature, air quality, lighting and shading based on actual needs.

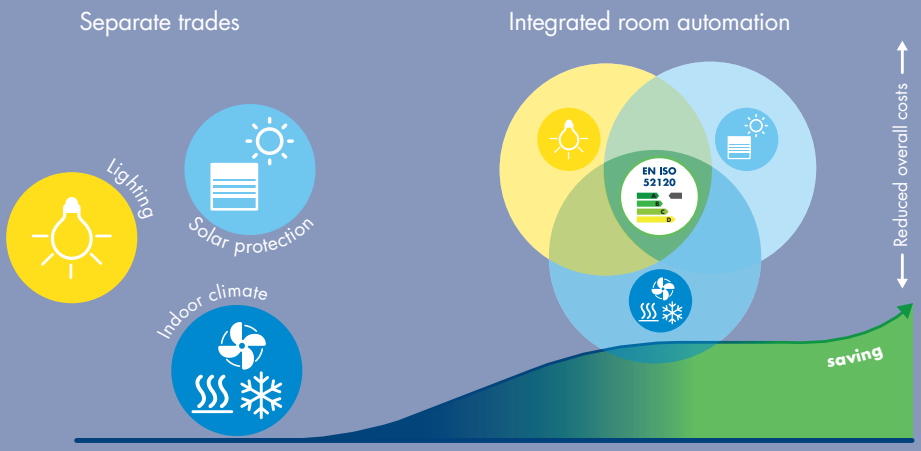
Integration instead of isolation

Truly energy-efficient building operation can only be achieved when room climate, lighting and sun shading are not treated as separate elements but intelligently interconnected. Only when these systems harmoniously interact can an environment be created where comfort and efficiency are equally guaranteed. This requires components that are fully compatible and capable of reliably exchanging information. This works best with a solution from a single source – such as integrated room automation from SAUTER. It combines all the essential functions in a single system, ensuring convenient and energy-efficient building operation.

By coordinating room functions in an integrated setup, buildings can be operated optimally and energy-efficiently in accordance with EN ISO 52120. SAUTER's solutions are systematically designed to meet the premium efficiency class A. This is achieved using intelligent automation functions that dynamically respond to changing conditions, such as presence-dependent constant light control, demand-controlled ventilation, optimised temperature regulation with occupancy profiles, and shading according to the position of the sun.

energy.ec.europa.eu

Shared use of sensors, cabling, and IT infrastructure



Advantages of integrated planning:

- Guaranteed comfort
- Integrated control
- Flexibility
- Best energy efficiency
- Lower total costs (LCC)

EN ISO 52120

Energy efficiency class A with SAUTER room automation



Sun-position-controlled shading with **"Smart Shading"**
Glare protection with maximum daylight utilization, optional annual shading correction
Minimal cooling load

Presence-based **constant light control** or **"Human Centric Lighting"**
Minimal energy consumption

Demand-based room ventilation

Optimized room temperature control with occupancy profile and presence detection

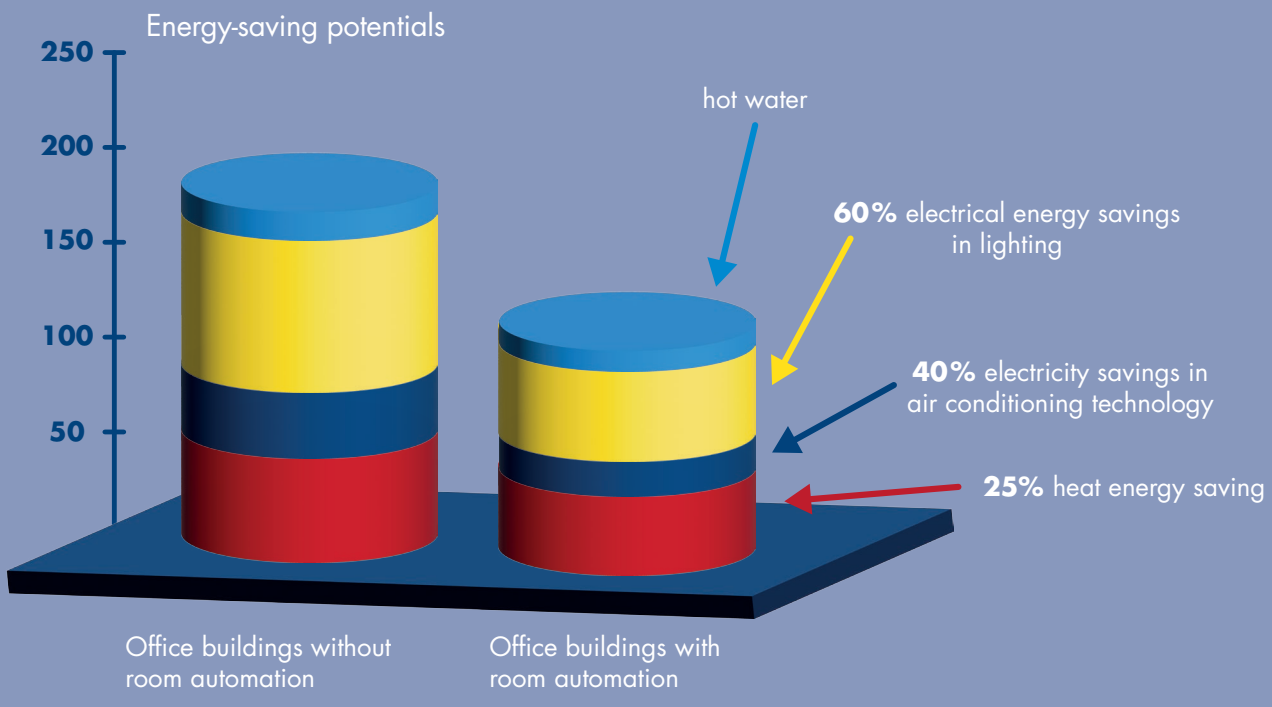
Networked, communicative room automation for integration into the building and energy management system

SAUTER Smart Shading – intelligent shading correction

Shading control is one of the most complex challenges in room automation. With Smart Shading, SAUTER offers a fully integrated system solution that goes far beyond conventional blind control. Based on VDI guidelines 3813/3814, the sun-position-based automation is enhanced with intelligent shadow correction. The system adjusts the position of the sunshade in response to the actual sunlight. It not only factors in the sun's daily trajectory but also nearby buildings and parts of the building's own facade that may cast shadows.

Based on the geographical location and the path of the sun, it calculates whether or not a window is shaded for every 15-minute period during the whole year. When the system detects shading from adjacent buildings or structures, it automatically adjusts the sunshade to a predefined position for optimal use of daylight. This intelligent control enhances user comfort, reduces energy consumption from artificial lighting and optimises heating and cooling efficiency.





Fully integrated

SAUTER Smart Shading integrates seamlessly into the overall room automation, fulfilling the integration standards set by VDI 3813/3814. There are various ways to control the sun shading: in the traditional way using relay contacts or digitally using standardised interfaces such as KNX or SMI. SMI (Standard Motor Interface) in particular has become established as the industry standard. As a universal, manufacturer-independent interface for blind motors, this communication protocol allows straightforward integration into central building management systems thanks to its simple installation, practical configuration and exceptional precision.

Whether for sun shading, room climate or lighting control – the ecos room automation stations from the SAUTER system family are always at the heart of SAUTER's integrated room automation. In this issue, we take a closer look at these powerful room controllers.

Starting on **page 24**, you can find out how they ensure a comfortable indoor environment with minimal energy consumption.

Knowledge in brief: The SAUTER functional triangle of integrated room automation

SAUTER's integrated room automation is based on three systems:

Room climate:
Heating, cooling and ventilation ensure comfortable temperatures and optimum air quality

Lighting:
Lighting control is based on occupancy and natural daylight

Sun shading:
Automated blinds and shading eliminate glare, assist cooling and save energy

The optimised interaction of these systems results in an integrated overall system that delivers both comfort and efficiency – based on the requirements of European standard EN ISO 52120 and VDI guidelines 3813/3814.



The EN 16798-1 standard in a nutshell

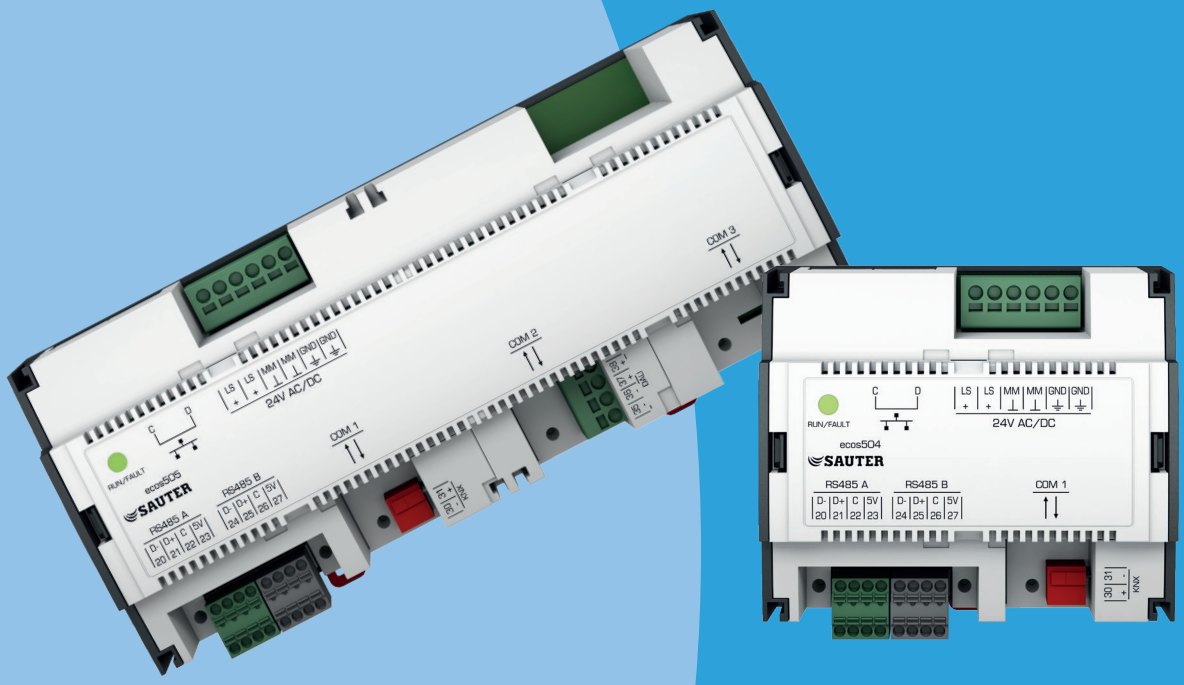
Thermal environment:
Specifications for heated and cooled buildings with operational temperatures and criteria for local thermal comfort established

Air quality, humidity and ventilation:
Guidelines for humidifying and dehumidifying indoor air and stipulations for minimum ventilation rates based on perceived air quality and concentration limits

Lighting:
Definition of illuminance levels in different room types with goals for daylight and artificial lighting

Acoustics:
Criteria for permitted sound levels in different areas of buildings

ECOS ROOM CONTROLLERS



Smart all-rounders for room automation

In times of high energy costs, ambitious climate targets and increasing demand for comfort, room automation systems play a crucial role. A key focus is on solutions that can be easily adapted to different requirements. To do exactly that, the modular SAUTER ecos room automation stations deliver maximum flexibility.

Room controllers in today's room automation systems offer far more than just temperature regulation. They integrate heating, cooling, ventilation, lighting and sun shading into an intelligent, unified system that creates maximum comfort for users while sustainably reducing energy consumption. For operators and investors, they are the key to efficient and future-proof building operation. Energy flows become transparent, operating costs are reduced and the long-term value of the property is preserved. With SAUTER ecos room automation stations, this complex challenge is met with simple, smart and cost-effective solutions.

Everything in one

The programmable ecos504/505 room controllers are at the heart of SAUTER's integrated room automation solutions. They combine all the key functions – from room temperature control and lighting control to sun shading according to the position of the sun – all in a single system. Control is delivered with exceptional precision. Presence functions, window contact monitoring, demand-based ventilation, lighting and blind control as well as time-based setpoint scheduling all help optimise energy consumption.

The ecos room controllers provide all the essential functions for typical applications. Sensors and actuators can be connected directly. This significant reduction in interfaces greatly simplifies planning, installation and maintenance. In addition, the compact DIN rail housing with high component density makes the controllers ideally suited for installation in electrical distribution boards. Combined with predefined application libraries, this makes commissioning both straightforward and highly efficient.

Ready for any challenge

The open architecture of the ecos room automation stations ensures long-term investment security – whether for new builds or modernisation projects. Supporting all common communication protocols, they easily meet all requirements for integrated room automation. Standard communication via BACnet/IP or BACnet/SC enables streamlined and efficient integration of all components with both primary system automation and the management level. BACnet/SC ensures encrypted data transmission, delivering maximum cybersecurity and future-readiness.

The system also uses proven standards when integrating individual systems. DALI (Digital Addressable Lighting Interface) enables intelligent lighting control and plays a key role in achieving optimum lighting conditions. Sun shading is controlled via SMI (Standard Motor Interface), ensuring precise and quiet positioning of the blinds. Using KNX or Modbus as a room-level field bus allows individual preferences for design, user comfort and functional enhancements to be easily implemented. In addition, Modbus and M-Bus enable accurate recording of energy consumption in individual rooms or zones.

Scalable & flexible

The comprehensive and thoughtfully designed range of ecos room controllers enables integrated room automation to grow flexibly with the evolving needs of the building and users. Up to 16 I/O modules, 8 room operating units and 16 smart sensors allow seamless integration of all sensors and actuators for complete room automation. The optional IoT Cloud Connector provides access to cloud services and IoT solutions. With the modular "moving wall" room segment concept, spaces can be divided into different, individually automated zones and flexibly reconfigured at any time during operation without requiring structural modifications. Thanks to BACnet, controller settings can be conveniently made via the building management system.

The operating options are equally versatile. Ranging from wired button design and wireless room operating units with bidirectional EnOcean communication to elegant touch panels, the ecoUnit operating devices give users full control. Temperature, lighting, blinds and ventilation can be adjusted intuitively. In addition, SAUTER Mobile Building Services enables secure, customised room operation via the Mobile Room Control app.

This all-round approach means the ecos room controllers create genuine added value. They combine efficiency, openness and flexibility to deliver lasting benefits for users, operators and investors alike.



Knowledge in brief:
The ecos504/505 modular room automation stations at a glance

- Integrated control of room climate, lighting and sunshading
- For minimal energy consumption and maximum user comfort
- BACnet/IP oder BACnet/SC
- DALI, SMI, KNX, Modbus und M-Bus
- Flexibly scalable
- Room control unit for intuitive operation
- Smart Sensor for temperature, relative humidity, VOC, CO_2, brightness, presence, noise level



SAUTER ECOS501

Intelligent Room Control for Fan Coil Applications

The SAUTER ecos501 sets a new standard for comfort-oriented and energy-efficient room control. Developed specifically for the requirements of the French market, it controls fan coil units (FCUs) and comparable HVAC systems. It combines state-of-the-art control technology with intuitive operation and full connectivity – ideal for buildings of any size. The ecos501 meets the requirements of the French RE2020 regulation, one of the strictest European standards for energy efficiency and climate protection in buildings.

Flexible for Any Application

The ecos501 can be used universally and is suitable for 2-pipe, 2-pipe/2-wire, and 4-pipe systems. It regulates valves, electric heaters, and fan motors precisely and energy-efficiently. Thanks to its versatile inputs and outputs, it can be used in both simple and complex HVAC systems. The controller supports the SAUTER room operating units EY-RU355 and EY-RU365 and can be seamlessly integrated into existing systems.

Optimal Air Quality and Operational Safety

The ecos501 actively contributes to improving indoor air quality. In combination with CO_2 or TVOC sensors, it regulates the fresh air supply according to demand via a 0–10 V output for external air dampers. When the CO_2 level in the room rises, the damper opens automatically until the air quality returns to the optimal range. This ensures a healthy indoor climate at all times.

Furthermore, the ecos501 supports the planning and control of operating times through configurable time programs. These enable automatic switching between occupied and unoccupied periods, further reducing energy consumption.



Future-Proof and Powerful

With a 230 V power supply, DIN rail mounting, four analog and four digital outputs, three universal inputs, as well as integrated Bluetooth and web server, the ecos501 is prepared for all modern building technologies. It integrates seamlessly into the SAUTER system landscape, including modulo 6, ecos504, and SVC.

Its well-thought-out design and robust construction guarantee a long service life and low-maintenance operation. This makes the ecos501 a convincing choice both technically and economically.

Conclusion

The SAUTER ecos501 combines intelligent control, simple operation, and maximum energy efficiency in a compact device. It makes room automation smarter, more connected, and more sustainable – ensuring perfect comfort with minimal energy consumption. With its flexibility and modern communication interfaces, it is the ideal solution for all fan coil applications in forward-thinking buildings.

What does RE2020 mean – and how does the ecos501 meet these requirements?

The Réglementation Environnementale 2020 (RE2020) is France's environmental and energy regulation for new buildings.

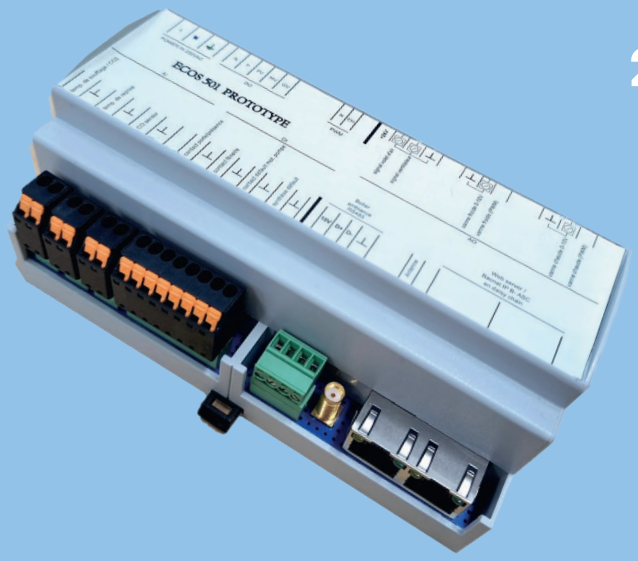
It pursues three main objectives

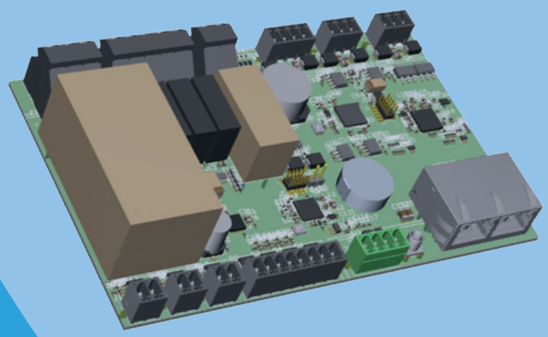
Reducing the energy consumption of buildings, particularly through intelligent control and the efficient use of heating and cooling.

Minimising CO_2 emissions, including through the limitation of fossil energy use.

Improving thermal and acoustic comfort for occupants – both in summer and in winter.

The SAUTER ecos501 directly contributes to achieving these goals. Its PI control strategy ensures precise temperature regulation, thereby minimising energy losses. Through adaptive fan control, demand-controlled fresh air supply, and an energy limitation function based on outdoor temperature, the ecos501 actively supports the implementation of the RE2020 requirements.





In particular, the integrated energy limitation function fulfils a key requirement of the RE2020:

As soon as the desired room temperature is reached, the operation of the electric reheater is automatically reduced. This prevents unnecessary energy consumption and significantly lowers the annual primary energy demand (Cep,nr) in accordance with RE2020 standards.

AWARD FOR SAUTER ENGINEER

Patrice Hell helps shape the future of BACnet

BACnet enables manufacturer-independent and future-proof building automation. Patrice Hell, a development engineer at SAUTER, has been active in international BACnet committees for 15 years. His long-standing commitment has now been honoured by BACnet International.

When heating, ventilation, lighting and security systems interact seamlessly in a building, it's usually thanks to something that cannot be seen: the standard known as BACnet. The everyday convenience experienced by operators and users is actually the result of decades of development – and the commitment of individuals working behind the scenes to ensure interoperability. One of them is Patrice Hell, a development engineer at SAUTER. He has been actively involved in international BACnet committees for around 15 years – and has now been honoured for it.



BACnet – more than just a standard

BACnet is the global data communication standard in building automation but there is more to it than just a technical set of rules. BACnet is a vibrant community of manufacturers, planners, inspectors, building owners and operators, all working together to ensure interoperability. In Europe, collaboration is organised by the BACnet Interest Group Europe (BIG-EU). It connects companies, organises specialist events, develops practical guidelines and advocates the interests of BACnet users to policymakers and standards bodies. Globally, BACnet International is an industry association which supports the use of BACnet through product certification, training

programmes and promotional activities. As a key component of this, the BACnet Testing Laboratories (BTL) manage the global product certification scheme and maintain a registry of certified products. Serving as a technical resource, the BACnet Testing Laboratories Working Group (BTL-WG) is responsible for maintaining and developing the certification framework. In this capacity, it guides the BACnet testing labs and continuously refines the certification requirements for BACnet products.

The BACnet committees rely on the dedication of their volunteers and the backing of member companies. It is through the work of diverse experts that BACnet remains an open, dynamic standard which is shaping the future of building automation.

SAUTER fully embraces this philosophy, contributing not only through its products but also through the active involvement of its employees in the BACnet community. Their voluntary participation in committees such as BIG-EU and BTL means SAUTER is always aware of the latest developments, can share its expertise and can ensure that its products meet the highest standards.

www.big-eu.org

www.bacnetinternational.org

www.btl.org

Commitment in action: Patrice Hell receives BTL Pillar Award

Patrice Hell exemplifies what true commitment means. At SAUTER, he oversees the BACnet certification of products, playing a vital role in ensuring that the company's solutions are interoperable and future ready. He is also a member of the BACnet Interest Group Europe (BIG-EU) and has been a voting member of the BACnet Testing Laboratories Working Group (BTL-WG) since 2013. In this role, he acts as a vital link between the committees, fostering international collaboration and helping strengthen BACnet's global presence. He regularly provides valuable contributions to the ongoing development of the BACnet test documentation. Most recently, Patrice Hell provided a BACnet Advanced Workstation (B-AWS), which significantly improved and accelerated the qualification process for BACnet testing facilities. He also contributed several work packages into the current test suite 26.0. In recognition of his outstanding commitment, Patrice Hell was awarded the BTL Pillar Award by BACnet International at the AHR Expo 2025 in Orlando, Florida. The award not only recognises his personal achievements but also SAUTER's contribution to the ongoing development of the standard. It symbolises the importance of technical expertise and volunteer engagement for the quality and long-term success of BACnet.

Knowledge in brief: Benefits of BACnet (Building Automation and Control Network)

In smart buildings, all technical systems must communicate, regardless of manufacturer. Since its initial release in 1995, BACnet has become the global standard for data communication in building automation networks.

Open:
Manufacturer-independent and interoperable

Cost-efficient:
Clearly defined interface from the field and automation levels to the management level

Future-proof:
Expandable in the long term

Certified quality:
Standardised testing by independent laboratories

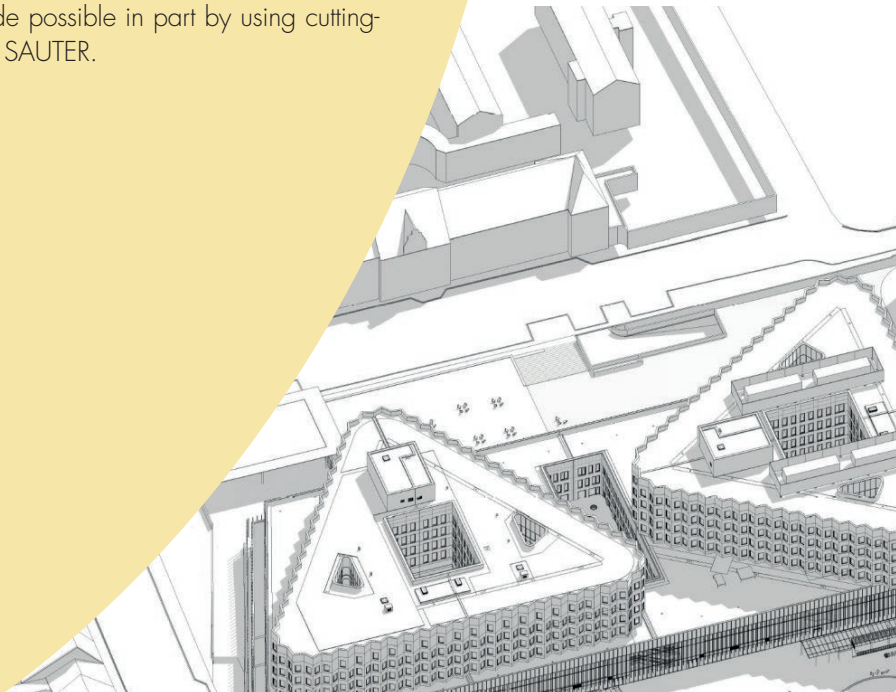


HOSPITAL MANAGEMENT OF THE FUTURE

Smart building automation in CHwapi's prestigious Site Unique project

Located in the heart of the Belgian city of Tournai, the Centre Hospitalier de Wallonie Picarde (CHwapi) has been a loyal SAUTER customer for over 15 years. CHwapi's current Site Unique project is a prime example of modern building automation and sustainable energy management. It impressively demonstrates how hospitals can get ready for the future.

There are good reasons why CHwapi calls its new project Site Unique and refers to it as the 'hospital of hearts'. CHwapi is setting new benchmarks with the hospital complex under construction. The project aims to consolidate various smaller CHwapi facilities at a central location. One objective is to increase efficiency, reduce operating costs and improve patient care. The other is to create a building complex with the highest levels of energy efficiency, operational reliability, user comfort and future-readiness. This is made possible in part by using cutting-edge technology and intelligent solutions from SAUTER.





Source: archipelago.be | Image: Bruno Dias Ventura

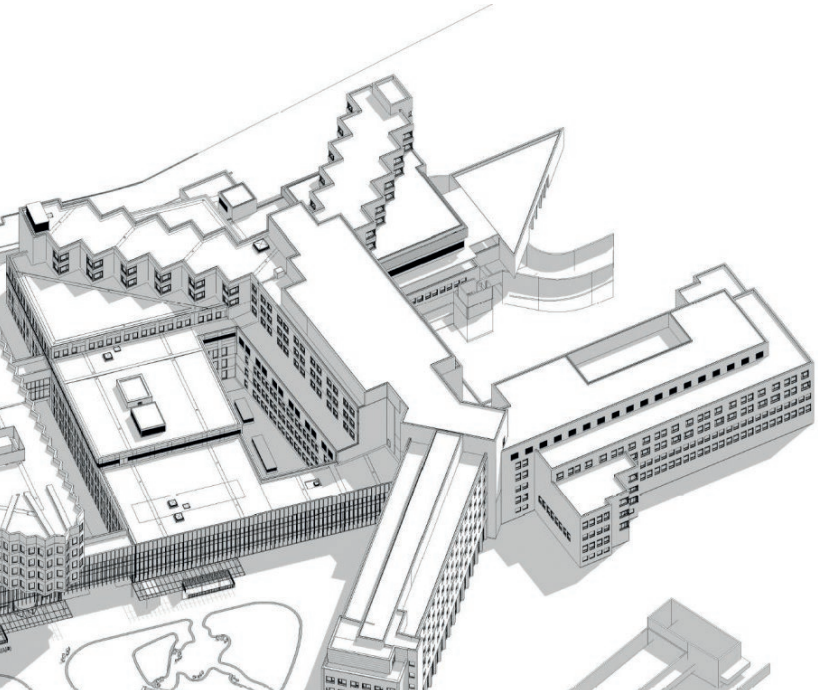
The solution

SAUTER Vision Center (SVC), already in use to the full satisfaction of the customer at the previous hospital facility, will again be at the heart of building management in the new project. The web-based integration platform enables centralised monitoring, analysis and control of all building functions, including HVAC, energy management, lighting and security. Its comprehensive energy monitoring and management capabilities were particularly important factors in the customer's decision to use SVC again. The tool allows detailed monitoring and analysis of energy consumption and identifies potential savings. This can help reduce costs and support the hospital in achieving its sustainability goals.

But that's not all: SVC's remote access capabilities enable rapid response to unexpected disruptions, thus enhancing overall operational reliability. Its compatibility with various communication protocols such as BACnet, Modbus and KNX also ensures seamless and secure data exchange across devices and systems from different manufacturers. With its modular design, SVC can be easily adapted to current and future requirements, making it a truly future-ready solution.

CHwapi has also opted for other SAUTER solutions. Automation stations from the innovative modulo 6 series ensure energy-efficient control of HVAC systems, delivering outstanding performance in minimal space. Like SVC, modulo 6 can be flexibly adapted to specific requirements and supports standard protocols such as BACnet and Modbus for secure data transmission.

With ecos room automation, SAUTER provides a tailored solution for precise control of conditions in individual spaces such as operating theatres and patient rooms. The systems offer impressively user-friendly operation via intuitive touch screens, which are supplied and programmed directly by SAUTER.



The result

The perfectly coordinated suite of building automation solutions will enable CHwapi to make management of the new hospital complex even more efficient, secure, sustainable and comfortable for building users – and ideally prepared for current and future requirements. The Site Unique project is scheduled for completion by the end of 2026.

www.chwapi.be

www.archipelago.be



FOR AN ENERGY-EFFICIENT FUTURE

Möglingen sets the course for the future with Smart Actuator

In Möglingen, public facilities are a top priority. This includes ensuring that heating systems in communally used buildings operate reliably and with maximum energy efficiency. Innovative solutions from SAUTER are driving their modernisation and technical harmonisation.

Located in the Ludwigsburg district North of Stuttgart, the municipality of Möglingen is home to around 11,300 residents and a popular place to live for people of all ages. A wide range of facilities contribute to its appeal, including daycare centres, schools, senior citizens' centres and, in particular, the community centre. It was officially opened on 6 December 1986 and has been a central meeting point in the municipality ever since. However, after nearly forty years, time has left its mark on the community centre and other municipal properties. To achieve technical harmonisation and comply with current energy standards, it was time to upgrade the outdated heating systems. Specifically, the project was to replace seven heating circuits in the community centre and three in a daycare centre. To meet the requirements effectively, the municipality opted for SAUTER solutions and commissioned building technology specialist PENN MSR Technik to implement them.

Living in Möglingen

Community centre in Möglingen



The solution

At the heart of the new heating systems is SAUTER's intelligent 3-in-1 solution: the Smart Actuator. It consists of an actuator combined with a freely programmable automation station and an IoT communication interface, all in a single autonomous unit. Alongside its compact footprint, operators benefit from user-friendly operation.

By connecting to the SAUTER Cloud, the heating systems can be monitored and managed both centrally and remotely via the SAUTER app. With demand-led control and time programmes integrated directly on it, the SAUTER Smart Actuator also offers significant potential for long-term energy savings. Interoperability with BACnet ensures seamless and secure integration into building automation systems. In addition, SAUTER modulo 6 automation stations with integrated moduWeb Unity web server were used connect to the building management system in the community centre.

The result

By refurbishing the heating systems, Möglingen is preparing for the future, especially in light of rising energy prices and stricter energy conservation regulations. The SAUTER Smart Actuator is a key element in this. With intelligent functions for monitoring and processing measurement data, it ensures that HVAC systems run efficiently at all times and prevents unnecessary heating.

This minimises energy consumption, reduces wear and extends maintenance intervals and operating times. It thus creates a basis for achieving energy efficiency class A and compliance with building automation requirements under the latest energy efficiency legislation, including data access via freely configurable interfaces, full monitoring, logging and analysis of all building systems and identifying potential for optimisation.

THE ONE



Cutting-edge building automation from the SAUTER Cloud

"The One" – Nuremberg's newest business address – symbolises state-of-the-art building management. Smart solutions from SAUTER ensure highly efficient, convenient and future-proof operation – impressively demonstrating the capabilities of digital cloud services.

The One is a new business address in Nuremberg, one of the most powerful cities in the Bavarian economy. The distinctive office tower in the north of city, created by S&P Commercial Development, offers around 10,000 m² of office and commercial space across 12 floors. The new business centre in the Thon district is taking shape with maximum focus on the future. State-of-the-art office spaces and conference rooms offer everything today's businesses need. Restaurants and cafés cater for every taste, while the spacious, landscaped district square is an inviting place to relax. What makes The One so special is its focus on innovative efficiency and maximum user comfort, reflected in building technology that combines smart and fully cloud-based digital services from SAUTER.

S&P COMMERCIAL DEVELOPMENT

The solution

Comprehensive energy and building management are provided by SAUTER Vision Services. The cloud-based system centrally connects and controls all the data recorded in the building. At its core is the modular automation system modulo 6. Taking up minimal space, it reliably handles large data volumes and transmits them securely to the cloud using encrypted BACnet/SC communication. Operators do not have to be on site for comprehensive access to data: SAUTER Remote Management provides convenient, real-time access to all building data from any location. The data is consolidated and clearly visualised in the Customer Portal, a cloud-based central information platform. This gives building managers a constant overview for making informed decisions.

Building users also benefit from maximum ease of use. Mobile Building Services – another solution from the SAUTER Cloud – and the Mobile Room Control app allow room control from a personal smartphone, making it simpler and more intuitive than ever before. The concept also features the innovative SAUTER Smart Sensor viaSens multisensors, which ensure constantly optimal room conditions. They are easy to integrate in the building automation system via a wireless Bluetooth mesh network and a sensor gateway. The sensor accurately measure and detect ambient factors such as temperature, humidity and movement and use a multicoloured LED ring to visually indicate room quality. Built-in Bluetooth beacons provide the Mobile Room Control app with precise location information for room-specific operation.

The result

SAUTER digital services offer numerous advantages for both operators and users. Smart solutions enable efficient and user-friendly building management with maximum future orientation. With a concept based on cloud operation, there is no need for dedicated hardware. In addition, new features and upgrades are always available through a subscription model, without needing complex installation. The One is thus a prime example of innovative building operation, embodying SAUTER's vision of using digital applications to make properties even smarter and more convenient in the future.

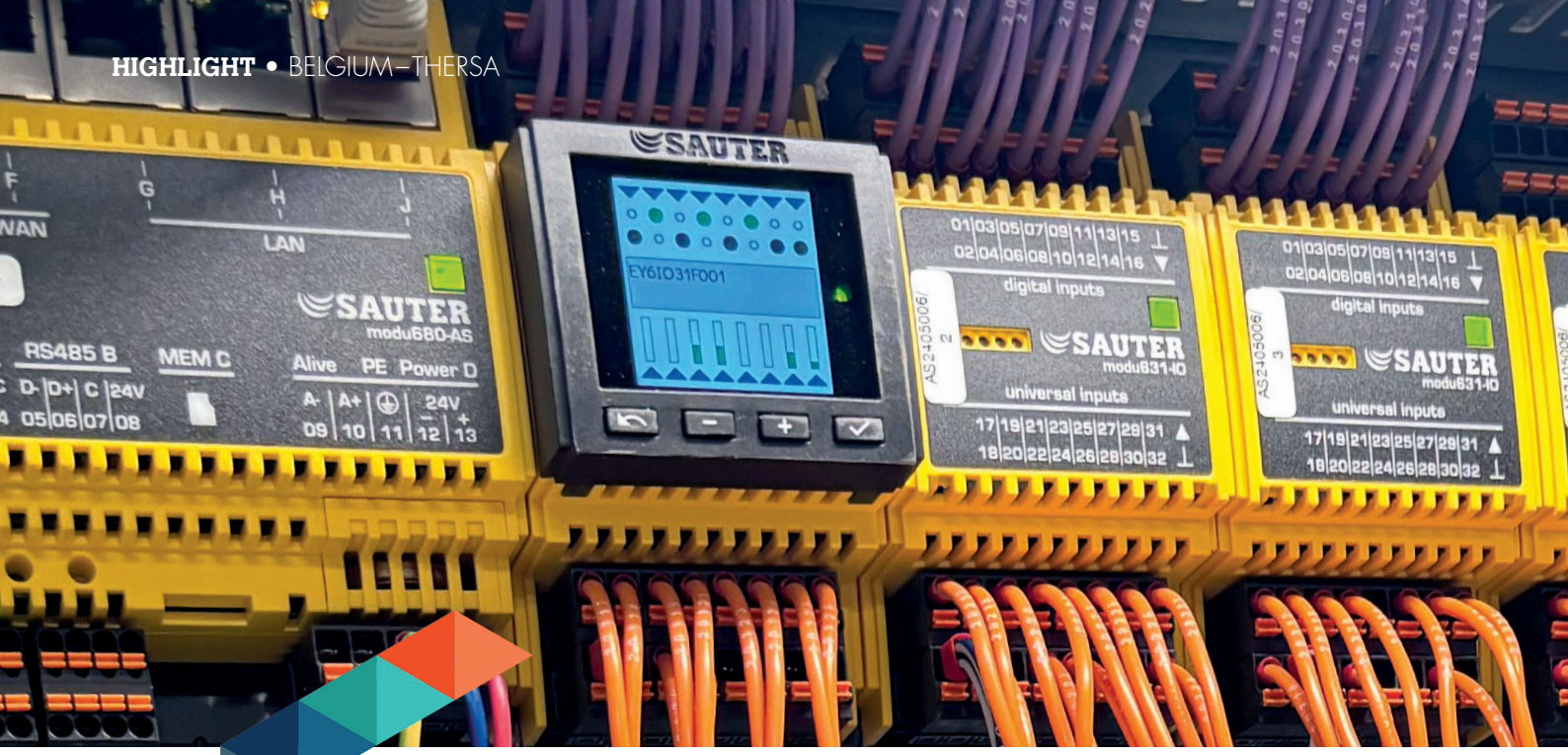
Economic region, Nuremberg

www.the-one-nuernberg.de



SAUTER Mobile Building Services is a smart cloud-based solution for modern building management. Combined with the Mobile Room Control app for smartphones and tablets, it enables users to conveniently control lighting, air conditioning and blinds, book rooms and workspaces, invite guests and find their way around using indoor navigation.

Services such as repairs or catering can also be requested directly from the app – conveniently, securely and on the go.



Thersa

SMART BUILDING MANAGEMENT FOR SMEs

How small and mid-sized real estate projects benefit from cost-effective BMS solutions

An innovative service concept from the Belgian HVAC specialist Thersa delivers highly cost-efficient building management – ideal for small to mid-sized properties. The concept is built on intelligent solutions from SAUTER.

The digital transformation in building management is well underway. The many advantages of digital building management systems (BMS) are now universally acknowledged. Yet until recently, it was primarily large companies that were able to benefit from them. For small and medium-sized businesses, the high investment and operating costs of the required IT infrastructure often proved prohibitive. Since 2023, an affordable solution has been available for small and medium-sized enterprises (SMEs). In cooperation with SAUTER Belgium, Thersa – a Belgian specialist in heating, sanitation, ventilation and eco-energy – offers smart building management in the form of a Software-as-a-Service solution for projects of all sizes. This innovative service concept has already proven its value in the two years since its launch. A key factor for integration on the operator side is the modu630-RT BACnet/SC router from SAUTER.

The solution

To unlock the full benefit of a digital BMS, all that building operators need is a secure Internet connection to a BACnet/SC hub operated by Thersa. This connection is enabled by the modu630-RT BACnet/SC router from SAUTER's modulo 6 system family. The compact device acts as a central element in the customer's building and room automation network, ensuring secure data transmission to the externally hosted management software. The modu630-RT router communicates exclusively using the encrypted BACnet/SC protocol and operates in an outbound-only principle. This guarantees end-to-end encryption and effectively prevents unauthorised access. No complex firewall setups or VPN solutions are needed, and communication remains exceptionally secure and user-friendly.

As for the data, Thersa provides its customers with the web-based integration platform SAUTER Vision Center (SVC), hosted on its own servers, as a central and modular software solution for building, energy and maintenance management. This all-in-one tool reliably and precisely records all building data transmitted by the local modu630-RT BACnet/SC router, enabling convenient remote control, analysis and visualisation of building functions. Access to the SVC environment via SAUTER Remote Management is risk-free thanks to multi-factor user authentication and a secure network connection.

The result

After two years on the market, one thing is clear: Thersa has successfully identified a key trend with its innovative service concept. By eliminating the need for expensive in-house infrastructure – including regular hardware updates, licence fees and dedicated IT staff – operators of small to mid-sized building projects with tight budgets now have access to a professional and secure BMS. The steadily growing user base clearly indicates the concept's great potential.



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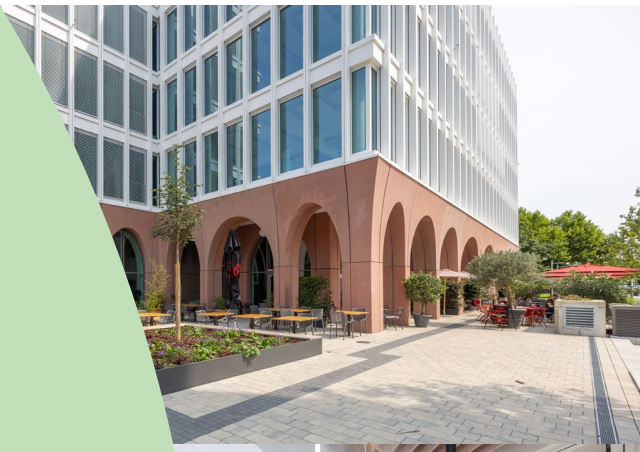
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