



SAUTER EY-modulo

Technology in its most natural form:
modular, evolving, energy-efficient.



“SAUTER systems and field equipment set the high standards for modern technology and processes in the building automation industry.

This is no surprise, given their commitment and experience.”

General contractor and SAUTER customer

Enhance the comfort, functionality and **energy efficiency** in all buildings – with SAUTER building automation.



The new SAUTER EY-modulo automation system is the efficient answer to all the requirements of modern building management. The ideal combination of intelligent function modules to form an overall system allows maximum individuality and flexibility for every building and every room situation.

**100 years of automation expertise for the highest demands:
SAUTER building automation.**

In the world of building automation, SAUTER has been a much-sought-after system partner, manufacturer and provider of services over various disciplines for many years now. Modern buildings are created world-wide, based on our expertise and our 100 years of know-how in the field of building automation. These fulfil all the requirements of a modern building management system, with technology that is secure against future developments and which uses energy efficiently and with tailor-made functions.

**The intelligent management of complex requirements:
SAUTER EY-modulo.**

Yet again, users, system builders, engineers and general contractors are enthusing about the new SAUTER EY-modulo automation stations. Our entire know-how, obtained from numerous projects, is incorporated in the many tailored function modules. Intelligent, requirement-orientated solutions and function-orientated packages can be ideally integrated in the engineering of complex systems and developed modularly to form an economic overall solution from one supplier. Naturally, the usual high quality of our products is also continued in the latest technology and provides significant benefits compared with our competitors in the areas of availability, security of investment and energy efficiency.

We have more than one answer to the **highest demands** placed on new and refurbished buildings. We have the solution – SAUTER EY-modulo.



Efficiency through open systems. SAUTER secures your investment.

With SAUTER EY-modulo, complemented by SAUTER field equipment, you have leading technology, which creates optimum conditions for both new buildings and refurbishments, as these communicate openly and compatibly. This is the decisive criterion for the future, above all for investors, operators and the technical services. Simple integration in existing systems and compatibility with older systems, or with products from third-party manufacturers, and other standardised communication protocols such as LonMark, LON, novaNet, Konnex, etc., can be implemented, thanks to BACnet, as easily as the simple integration of an Office system environment at building management level.

New buildings: independence through open systems without compromise.

For a new building, SAUTER offers optimum products and services for the automation requirements of your building, as overall contractor and general supplier. Open communication protocols ensure that the best conditions are created for future extensions, conversions or refurbishments. You remain independent of the manufacturer at all times in the selection of your components and the automation system. With SAUTER, customer ties are exclusively made via customer satisfaction.

Refurbishments: modular system integration results in the highest compatibility.

The open and downwards-compatible SAUTER automation stations and field devices provide optimum refurbishment possibilities. Refurbishments can be carried out even to a running system. Interference and operational interruptions are, therefore, reduced to a minimum, which guarantees continuous productivity in your buildings.

BACnet
LON
OPC
M-Bus
Modbus
XML
SOAP
Webservices
Ethernet
DALI



“Today, our customers are already thinking about tomorrow. Therefore, I must do likewise. When we design a new building, we already consider a later refurbishment. Downwards compatibility is essential for me.”

Engineer and SAUTER customer

Where **energy** is used effectively and precisely, resources and finances are conserved.

Energy efficiency: economy is the heart of optimum building automation.

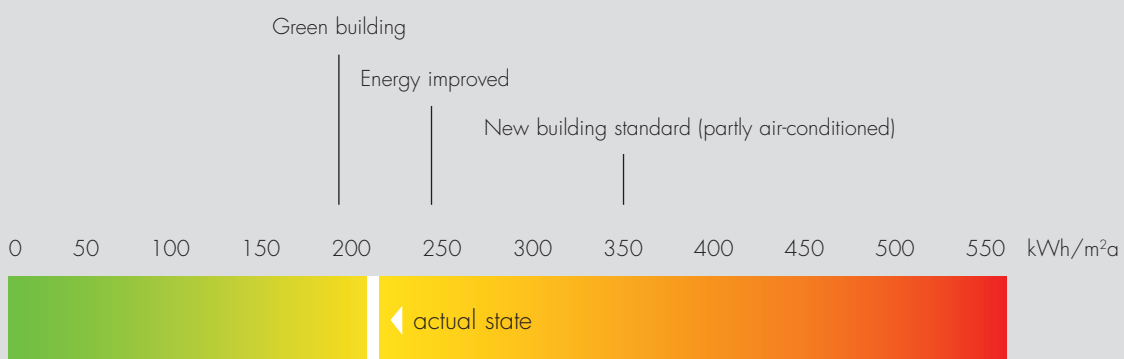
Thanks to SAUTER's intelligent technology, it is possible to control the energy used in order to minimise costs. In addition to the precise zone and output control with special algorithms in the control modules, overall factors play a significant role, such as the full utilisation of traditional and regenerative sources of energy, taking weather forecasts into account to make the correct amount of heating and cooling energy available at the right time. Using special energy audits, our experts optimise energy consumption during operation and, therefore, increase the economic performance of the overall building management system.

We take responsibility and create exemplary solutions.

In addition to the fulfilment of all legal regulations, standards and directives – such as EN15232 and 2006/32/EC European Directive Energy and use Efficiency and Energy Services (EEES Directive) – we are heavily involved in different committees, e.g. eu.Bac, which defines and organises the Europe-wide certification of the quality and energy efficiency of Building Automation and Control System (BACS) products. Many of our customers are publicly known as pioneers in the efficient utilisation of energy resources. In addition to the high cost savings, this also results in a great improvement in their image as seen by employees, customers and the general public. Furthermore, part of the investment costs can often be refinanced with state and EU subventions. SAUTER helps to take responsibility for the environment for future generations, with energy-efficient solutions using SAUTER EY-modulo and competent energy advice.

The SAUTER dynamic “energy pass” continuously shows you the actual situation of your building.

Limit values for offices buildings:





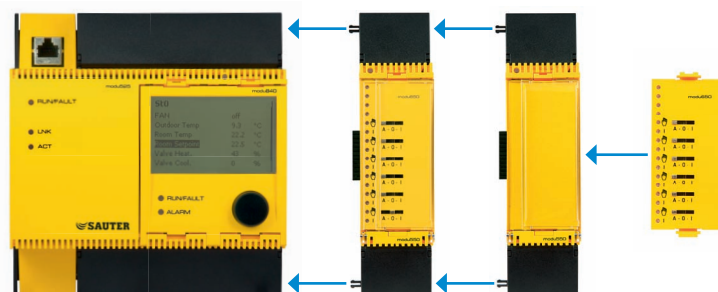
“I enjoy walks in the countryside in the knowledge that I also take responsibility for our environment as part of my work.”

Operator and SAUTER customer



“Growth and expansion? Yes, this influences our requirements and those of our building. We expect the highest flexibility. As we grow, so must our systems and their functions.”

Technical manager and SAUTER customer



Many modules, one top-level technology. SAUTER EY-modulo **grows in size and function,** when you want.

Module for module, for module, for module.

Modern buildings increasingly have numerous functions, each with as many settings and parameters. The full integration of the field level, with its various bus systems, sensors, controllers, valves, etc., is a great challenge for the entire system. The modular construction of the SAUTER EY-modulo automation stations solves even complex tasks and provides the necessary interfaces for a growing system. Functions, characteristics and requirements, which are subsequently initiated during refurbishments and extensions, can be integrated in the existing building management system at little cost and within a financially manageable framework.

Functionality in all conceivable alternatives.

The application diversity and the regulation and control technology of the SAUTER EY-modulo have hardly any limits. It comprises preconfigured function modules for different applications. From the intelligent use of energy via room pressure control with the highest safety requirements up to the precise control of air-conditioning comfort zones for maximum comfort, to name just a few.

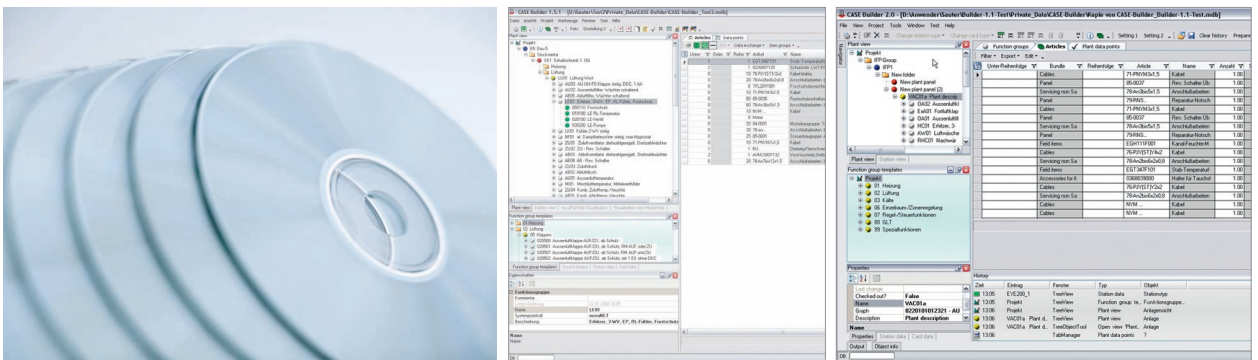
SAUTER EY-modulo, a specialist that integrates.

Even alarm handling and safety concepts, personnel and visitor management, fire protection, smoke extraction and lighting management, CCTV and room occupation management can be implemented centrally with SAUTER EY-modulo. This makes systematic, uniform and powerful building management possible for every conceivable need. This is already visible in saved Euro and Cents in the calculation phase, because, for many requirements, the building or conversion costs for the requisite cables and supply conduits are considerably reduced.



“Partnership also means support in your work. I work daily with SAUTER – strictly speaking, with the engineering software, which helps me to keep exactly to deadlines.”

Engineer and SAUTER customer



Manageable engineering tools for efficiency.

Our alliance for **efficient services:** SAUTER EY-modulo and the SAUTER CASE Suite engineering software.

SAUTER CASE Suite – the knowledge database for modern building management.

There are no control tasks in modern building management for which SAUTER has not yet developed a solution. We have collected together large libraries of proven solutions from numerous projects in the specially-developed SAUTER CASE Suite engineering software. Our and our customer's engineers use this concentrated knowledge for the fast, cost-efficient and, above all, on-time engineering for all types of buildings. Individual application solutions also take country-specific requirements into account, thanks to our international activities.

Intuitive and efficient project engineering – the competitive advantage for our partners..

In the development phase, we already gave high priority to the intuitive handling of the software. Well-structured libraries support quick access to the relevant data, project and function modules and, therefore, support the fast, punctual and economic engineering of building automation systems with complex requirements in different areas.

Range of solutions in the SAUTER CASE Suite library:

- Heating
- Ventilation and air-conditioning
- Cooling
- Electrical
- Room automation
- Plumbing
- Smoke extraction and fire protection.



SAUTER CASE Suite

EY-modulo 5: unlimited building automation possibilities.

The SAUTER EY-modulo 5 automation station is the flagship of the SAUTER automation technology. As an open, future-orientated system, all functions, devices and applications – and existing systems and equipment – can be readily integrated using the BACnet protocol. Embedded web technology and extended modular functions offer optimum solutions for all control tasks. The intuitive operation and the emergency operation functions, monitoring and remote maintenance via the internet, protected by an integrated firewall, and comprehensive libraries of solutions in the CASE Suite engineering software, complete the scope of this pioneering SAUTER technology.



PDA



E-mail



Voice mail



Fax/printer



SMS

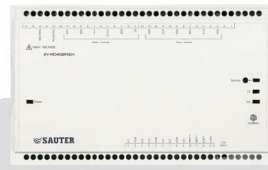
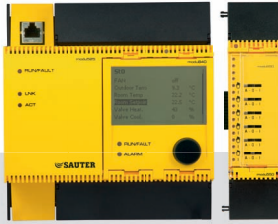
EY-modulo 4: room and building automation to the LonMark standard.

The requirements of building management are as diverse as our customers. Precisely because the LON protocol has advantages for many engineers, operators and users, today we also offer the indispensable LonMark standard in addition to our BACnet and novaNet expertise with SAUTER EY-modulo. Above all, energy-related room automation functions can be efficiently controlled with visible savings with this member of the family.

EY-modulo 2: the most economic automation station for refurbishment and migration.

With SAUTER EY-modulo 2, you can extend your existing system easily and quickly by numerous functions, possibilities and field devices. The compatibility of these automation stations with our previous systems and the integration capability for third-party systems ensure simple, energy-efficient operation based on the widely-used novaNet communication protocol.

SAUTER EY-modulo 5, 4 and 2: requirements-orientated **development expertise** for all equipment needs.



EY-modulo 5

EY-modulo 4

EY-modulo 2

	EY-modulo 5	EY-modulo 4	EY-modulo 2
Communication protocol BACnet/IP	●		
Communication protocol LON		●	
Communication protocol novaNet (2-wire)			●
Web operation on board	●		
Web operation with optional web server		●	●
E-mail transmission from automation stations	●		
Remote maintenance via web services	●		
Local user control panels with display	●	●	●
Universal inputs (Ni/Pt1000, U/I/R, DI)	●	●	
Modular extensibility with I/O modules	●		●
Remote modules	●	●	●
Indications and emergency operation at the I/O modules	●		●
Remote indications with direct operation	●		
Labelling of the I/O modules	●		●
Plug-in function modules	●	●	
Third-party system integration at the automation level	●		●

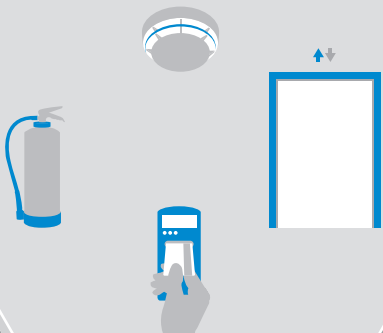
Alerting



Management level novaPro



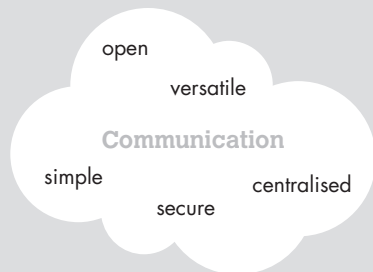
Specialist systems



Energy provision EY-modulo 2 novaNet



Communication



Energy provision EY-modulo 5 BACnet®



2

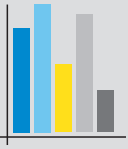
Migration EY3600 novaNet



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The concept throughout – compatibility, comfort and **energy efficiency** at all levels of building automation.

Service portal

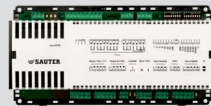


Operation via web



**Room management
EY-modulo 2**

novaNet



**Room management
EY-modulo 5**



**Room management
EY-modulo 4**



SAUTER system benefits:

- Uniform technology throughout
- High security of investment
- Full upwards and downwards compatibility
- Open and compatible with third-party manufacturers
- High availability
- Optimum system integration
- Reliable web integration
- Decentralised control and access possibilities
- Efficient services through remote maintenance
- Intuitive operation at all levels of operation
- Fully developed function modules
- Minimum invasive refurbishment
- Simple, quick installation
- Optimum engineering with SAUTER CASE Suite
- Wireless and IR technology
- Highest energy efficiency
- Swiss quality
- Environmentally friendly materials
- BACnet, BACnet/IP, LON, novaNet

Systems

Components

Services

Facility Management

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