



SAUTER EY-modulo **5**

The complete building management solution.



**SAUTER high-end technology – for the highest standards
in fully integrated building management.**

The best of the best – combined in a single system. Our high-end solution for fully integrated building management once again pushes back the boundaries. SAUTER EY-modulo 5 is the top-of-the-range solution for intelligent and energy-efficient buildings – a fully configurable, modular system that can meet any demand for state-of-the-art building technology.

SAUTER EY-modulo 5 – Open, multifunctional and efficient **building automation.**

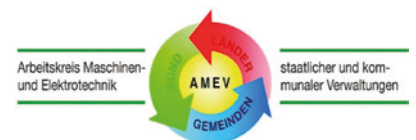
BACnet/IP – the communication protocol for networked building intelligence.

SAUTER EY-modulo 5 comprehensively meets all the requirements of an open, modular and cross-platform building management solution. This forward-looking technology is entirely based on the open BACnet/IP communication protocol via Ethernet. SAUTER EY-modulo 5 allows a complete exchange of data for complex building management functions, including air conditioning with pin-point precision, alarm and fire protection functions, as well as convenient room management, all integrated within a single system that is completely scalable.



SAUTER EY-modulo 5 guarantees energy efficiency.

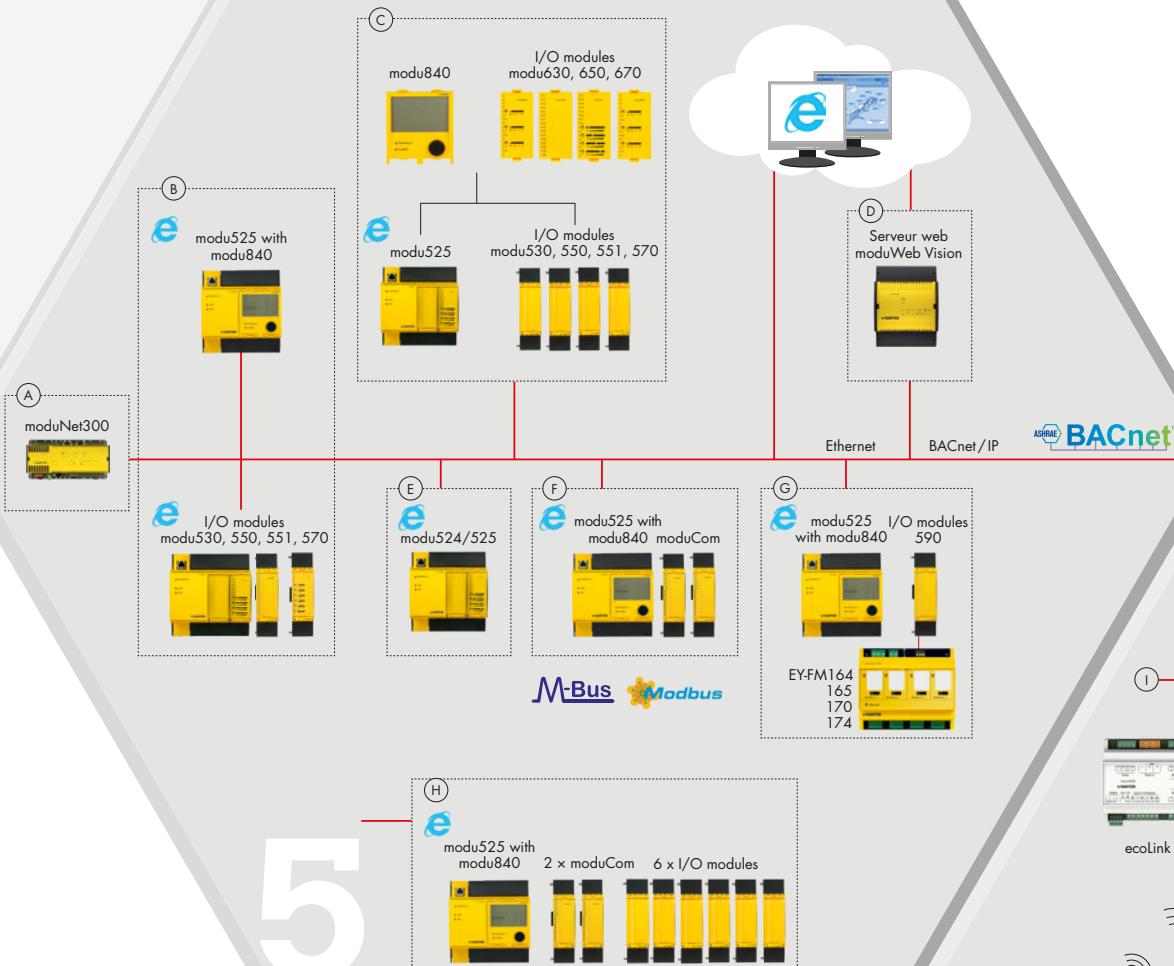
The distributed intelligence concept ensures that there is efficiency at every point in the building automation system. The automation stations have adaptive algorithms and energy optimisation functions as standard. These combine to adapt to the latest situation automatically, even if changes are made to the rooms. The energy consumed is controlled according to the demands of the end user. As a result, we achieve maximum energy efficiency, to the benefit not only of our customers' budgets but also of the environment for future generations.



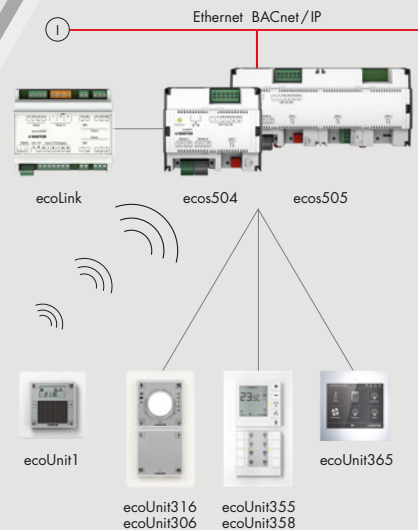
Unlimitedly scalable with completely open communication.

System Integration

modu 5



ecos 5



- A Integration of EY-modulo 2 EY3600 migration
- B Operation: The controls can be positioned directly on the station
- C Remote control: The controls can be positioned in a separate frame several metres away
- D moduWeb500 with moduWeb Vision BACnet web server
- E Base station: The simplest type of automation station
- F Third-party integration: Integration of third-party systems
- G Integration of field modules
- H Scalability: To the maximum I/O mix
- I ecos504/505, ecoLink with ecoUnits for up to 8 rooms: Temperature, lights and window blinds



Large or small, left or right, above or below: **compatible** with any system.

Whether for new buildings, modernisations or migrations – complete upwards and downwards compatibility protects your investment.

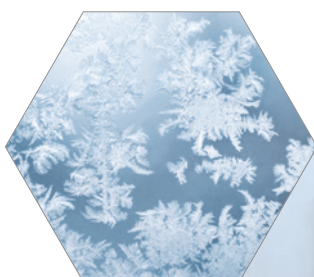
When you invest in a state-of-the-art building management system, you need to be certain that it will meet any future requirements. At SAUTER, we offer the expertise you need, as well as a uniquely consistent set of products ranging from automation stations to unitary controllers with the ranges of SAUTER EY-modulo automation stations, SAUTER field devices and our comprehensive wealth of experience. Their total compatibility makes SAUTER systems extremely flexible and scalable: regardless of the year of manufacture or the generation, and no matter whether they are based on novaNet, LON, KNX, BACnet MS/TP, BACnet/IP, DALI or SMI.

The system is open both vertically and horizontally – providing perfect interfaces for an overall concept independent of any manufacturer.

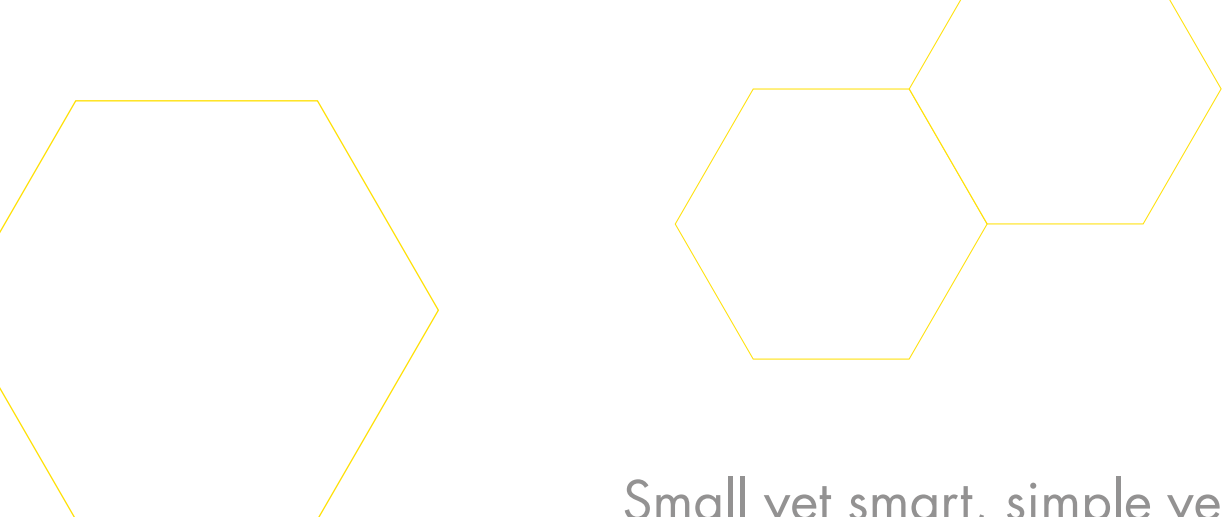
Thanks to BACnet/IP, we are even able to seamlessly integrate existing systems (M-Bus, Modbus, LON, KNX, DALI, SMI etc.). The benefits are clear: You are no longer tied to one manufacturer and can upgrade your existing system with the entire variety of functions offered by SAUTER without any problems at all. As well as vertical integration, SAUTER EY-modulo 5 and BACnet/IP provide you with a basis for a building management system that can cater for multiple equipment systems. These might include room reservation applications, access control, fire protection and alarm systems. The variety of possible interfaces within your building management system gives you immediate access to countless solutions.

A system for completely integrated building management:

- Heat
- Cooling
- Heating
- Plumbing
- Lighting
- Sunshading
- Electrical
- Communication
- Fire protection
- Security
- Access control
- Lifts
- Emergency power
- Ventilation/air conditioning
- Internet
- and much more!



5



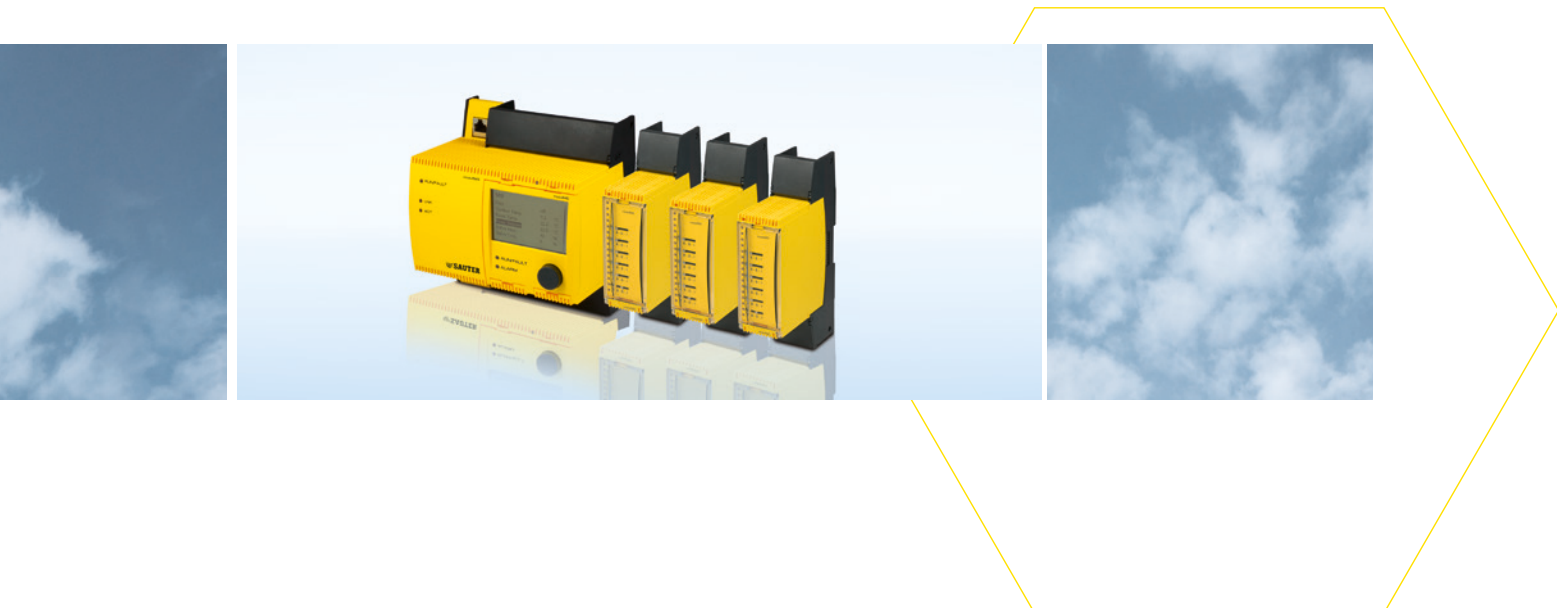
Small yet smart, simple yet attractive: **The perfect combination** of function and design.

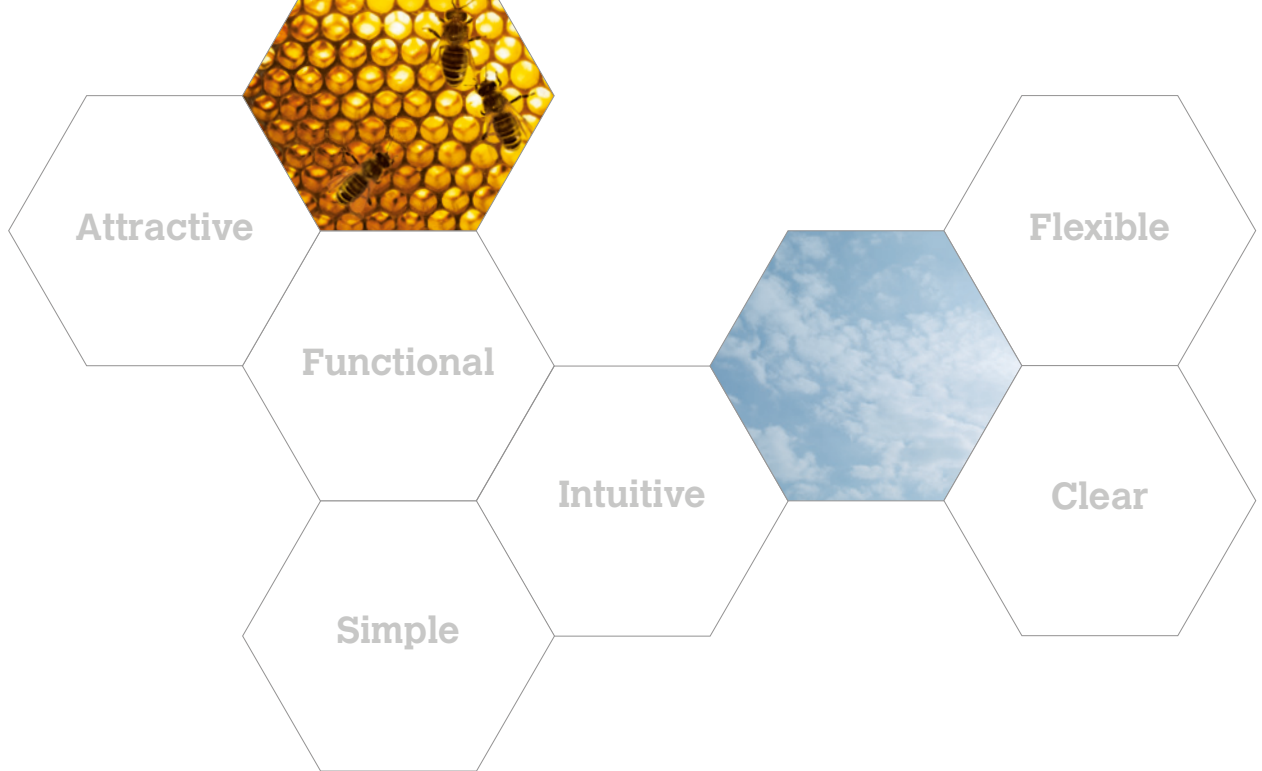
Maximum functionality in the minimum of space – intelligent modules make it all possible.

Using modular automation stations from SAUTER, even the most complex requirements for regulation and optimisation can be met. All the functions are available directly in the SAUTER firmware. Tailor-made data point solutions can supplement functions individually and simply be added to the automation station. The modular design means that existing systems can be upgraded with operating, indication and control units with the minimum effort and expense.

The design strikes an optimum balance between the appearance and function of the product.

State-of-the-art buildings need state-of-the-art technology. We package this in a functional yet attractive design. Here, too, experience is crucial, because the intuitive method of operation must be practical and, at the same time, robust. It must be simple to install and be open for possible extensions. That's why we have developed concepts that combine optimum design with maximum functionality for whatever requirements you might have. Whether as an automation station concealed in a cabinet or as a single-room controller integrated into the immediate surroundings.





SAUTER EY-modulo 5: comfort levels according to needs for **efficient operation.**

SAUTER moduWeb Vision

- Intuitive operation and the very latest interface design, also with touch option
- Not tied to any location
- Direct notification via internet
- Dynamic tables and animated diagrams
- Password-protected, virus-resistant, traceable logs

SAUTER automation station with moduWeb on board

- Integrated web server as standard
- Operation via PC or touch- panel
- Graphical representation for a quick overview of the most important information
- Control loop diagrams and alarm summaries at a glance

SAUTER modu840

- One-button, turn-and-press manual operation
- Display with intuitive menu directly on the station
- Table view
- Clear status display
- Flexible mounting options

SAUTER EY-modulo local override operation

- Settings made directly on the module
- Plug-and-play installation and operation
- Colour LED display to indicate input and output statuses
- Generous labelling space
- Can be removed from I/O module and upgraded at any time





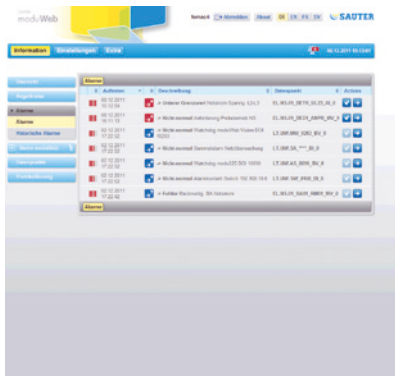
Remote access and notification for quick response times, central control and **the good feeling** of reliability.

Remote operation: fast, economical and secure.

Our "web on board" technology ensures that your system runs smoothly. Interactive operation enables you to carry out regular maintenance and inspection routines very efficiently. Any system errors or malfunctions are forwarded directly by e-mail or text message to your mobile phone or other mobile devices. You can react immediately and initiate the necessary action remotely from your PC. Economy that pays for itself. In addition to highly reliable operation and quick resolution of problems, considerably less on-site maintenance is required.



Extremely convenient for technical service staff – visualisation, system access and maintenance via the internet.

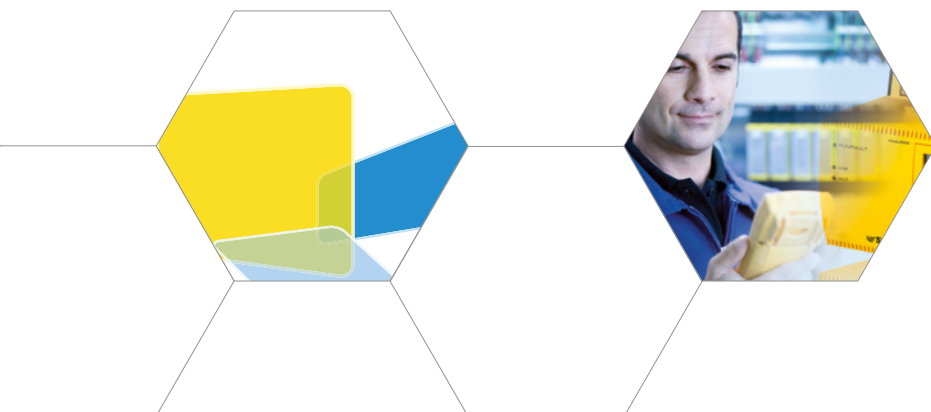
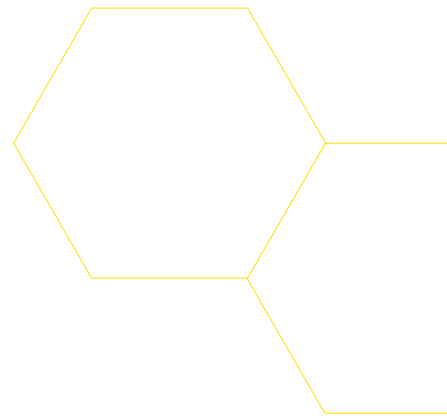


Web on board – SAUTER EY-modulo 5 automation stations integrate all the important data in the web browser.

Equipped with the latest web technology, SAUTER EY-modulo 5 automation stations provide direct access to all the data that is relevant to your building. It could not be simpler: you can use any common web browser to access important information, clear data point lists, precise analysis tools and historical data evaluation options, and export the data to standard programs, any time and anywhere.

SAUTER EY-modulo 5 can provide alarm notification via a range of media:

- PC
- Smartphone
- Tablet PC



Where **energy efficiency** is immediately apparent:
trends, audits – and the right reaction every time.

Easy to use, everything in view and total control –
SAUTER moduWeb Vision.

All in one. One for all.

moduWeb Vision is characterised by interoperability and system openness. The web server communicates with all automation stations via BACnet/IP. This means that you can operate and monitor all of the HVAC systems from a single web client. The structured lists and clear graphics for the system can be viewed on any web browser, no matter where you are.

Dynamic, modern and intuitive.

The graphical user interface makes everything simple, even for inexperienced users. Time programs can be easily configured using a clear agenda view. The interface features the latest in HMI design. Experienced users can navigate swiftly via the system tree using either the mouse pointer in the desktop version or their fingertip in the touch-optimised version. Dynamic tables and animated diagrams provide valuable information for optimising the systems. Wizards, as well as export and copy functions, make routine jobs easier and minimise the potential for errors.

SAUTER moduWeb Vision is secure and reliable.

Password-protected access is just the beginning of the comprehensive moduWeb Vision security concept. An integrated firewall provides additional protection from hackers, and computer viruses have no chance. Access to various parts of the installation or to particular equipment systems can be granted to individual users. A log records all user activity and guarantees traceability.



Reliability and efficiency through **flexible, comprehensive building management.**

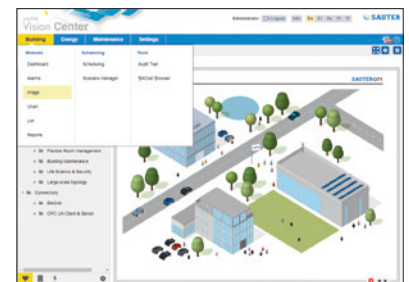
Central and local building management of the latest generation – SAUTER Vision Center.

For more efficiency in operation and control.

SAUTER Vision Center does more than just performing the conventional tasks of a building management system, such as visualisation, monitoring, logging and controlling installations. The solution also supports your energy and maintenance management. Thus it fulfils the high demands of investors, owners and operators for energy- and cost-efficient operation. As a web-based building management solution in the HTML5 standard, SAUTER Vision Center can be used with any operating system and therefore practically every internet browser, whether it is Linux, Unix, iOS, Android or Windows.

Integral operation and visualization in a concise way:

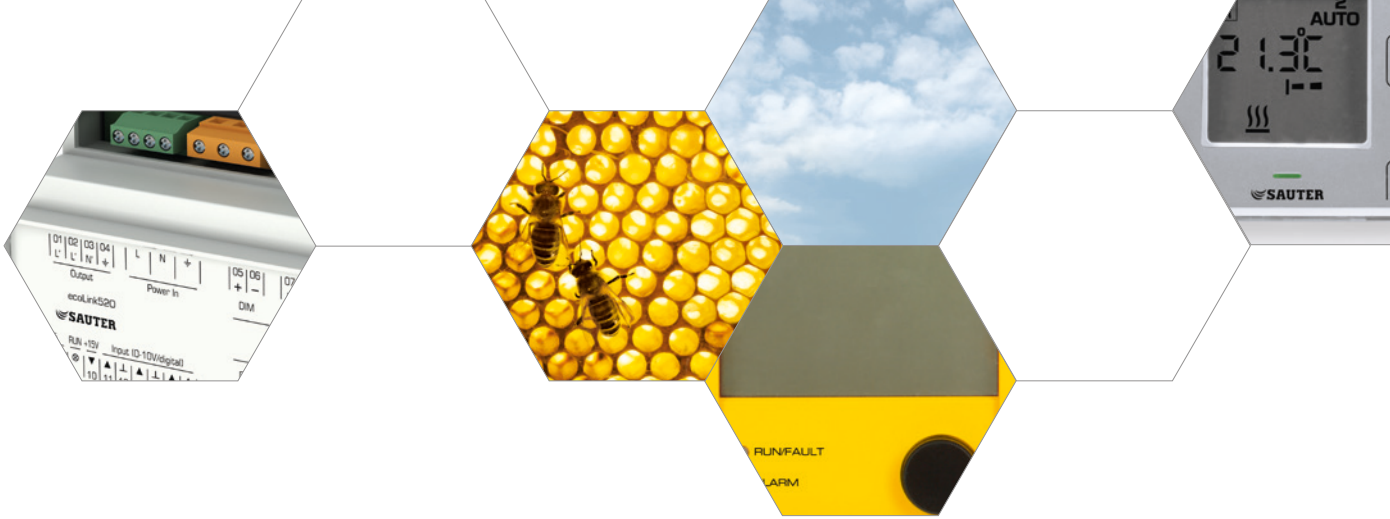
- **For projects of any size:** SVC is suitable for buildings of all types – from a single building to dispersed premises, larger projects, administration buildings to search labs.
- **Easy to operate for all users:** With personalised dashboards every user can individually compile the information relevant to their area of responsibility and present it in an overview.
- **Scenario Manager for very easy operation:** The Scenario Manager can be used to define and assign scenarios in SVC with just a few clicks; providing an even greater flexibility to plant management.
- **Access from any location:** SVC offers information on all conventional end devices such as desktops, laptops, tablets, smartphones and smartwatches.
- **Central building, energy and maintenance management:** SVC has a modular structure and is freely scalable. The integration of specialised auxiliary modules enables it to be used for a vast range of building tasks.
- **Precise insights for smart building management:** SVC creates user-specific evaluations for owners, managers and user whilst supporting you in optimising your building operations.
- **Security and compliance:** With special functions for traceability and gap-free data recording, SVC ensures increased reliability for installations and processes that are critical for all companies.
- **Investment protection thanks to standards and expandability:** SVC is BACnet certified, additionally uses OPC UA and supports the connection of SAUTER novaNet for its heterogeneous plant landscape. – This is what we understand by successive expansion and gentle migration for ultimate investment security.



The intuitive graphics in SAUTER Vision Center provide a quick overview and convenient operation of the system.



Thanks to the latest web technology, you can also operate your building via a tablet or smartphone, any time and anywhere.



SAUTER EY-modulo 5 – functional building management and individual room climate of the highest quality.

A system that is impressive in every respect.

SAUTER EY-modulo 5 is the ideal solution for any application, requirement and quality expectation. We drew on all our experience to develop the best and most economical, flexible and efficient response to our customers' requirements. The result of the challenge that we set ourselves is SAUTER EY-modulo 5.

Fully automatic or at the touch of a button.

Freely configurable functions for personal preferences in air-conditioning satisfy every individual requirement either automatically, during periods of occupancy, or at the touch of a button. When no-one is present in a room, EY-modulo reduces the entire energy supply to multi-zone functions – such as ventilation, lighting, heating or cooling – to a minimum in that particular room. This significantly lowers operating costs and ancillary costs. The investment costs are amortized via the savings made in a very short time. At the same time, reducing CO₂ emissions makes an active contribution to protecting the environment.



Overview of SAUTER EY-modulo 5.

Your advantages:

- + High-end technology for fully integrated building management
- + Open, standardised communication protocol with BACnet/IP as per ISO 16484-5
- + A tried-and-tested system with comprehensive solutions for automated HVAC, room automation and energy-efficient building management
- + Modular automation stations for unlimited scalability
- + System integration on all levels for fully integrated building management
- + Highly modular functionality with intelligent design
- + Efficient local operation on various levels (web technology, local LCD operating unit, local override operation)
- + Web technology for visualisation, system access and maintenance, as well as alarm notification via internet
- + Freely configurable with efficient software tools based on long-standing expertise in building automation, room automation and regulation systems

How you benefit:

- ▶ Intelligent building technology
- ▶ High future protection of investment
- ▶ Energy-efficient operation of buildings
- ▶ Expandable for flexible, future-oriented construction
- ▶ Integration of many different equipment systems
- ▶ Ease of installation
- ▶ Custom comfort levels for intuitive operation
- ▶ Clear system overview with web browser, tablet and smartphone
- ▶ Intelligent controls technology for individual climate control in the building





SAUTER EY-modulo 5 modu building automation

| Type | Description | |
|--------------|------------------------------------|--|
| EY-WS500F005 | moduWeb500 BACnet web server | 24 V, BACnet/IP, web |
| EY-WS505F010 | moduWeb Vision software | 800 BACnet objects, 75 images, 25 user accounts |
| EY-WS505F020 | moduWeb Vision software | 2500 BACnet objects, 250 images, 100 user accounts |
| EY-WS506F100 | moduWeb Vision software | Touch option |
| EY-AS524F001 | modu524 compact automation station | 26 I/O, BACnet/IP, web |
| EY-AS525F001 | modu525 modular automation station | 230 V, 26 I/O, BACnet/IP, web |
| EY-AS525F005 | modu525 modular automation station | 24 V, 26 I/O, BACnet/IP, web |
| EY-IO530F001 | modu530 input module | 8 UI/8 DI (universal/digital) |
| EY-IO531F001 | modu531 input module | 16 DI (digital) |
| EY-IO532F001 | modu532 input module | 16 UI (universal) |
| EY-IO533F001 | modu533 input module | 8 UI/8 DI (4 SO) |
| EY-IO534F001 | modu534 input module | 8 U/I electrical isolation |
| EY-IO550F001 | modu550 output module | 6 DO (relay) |
| EY-IO551F001 | modu551 output module | 16 DO (open collector) |
| EY-IO570F001 | modu570 input/output module | 8UI/4AO (universal/analogue) |
| EY-IO571F001 | modu571 input/output module | 16 DI/DO (open collector) |
| EY-IO572F001 | modu572 input/output module | 8 UI/4 AO/3 DI (universal/analogue/digital) |
| EY-IM590F001 | novalink module | 8 novalink channels |
| EY-CM721F010 | modu721 communication module | Modbus/RTU master (EIA232 or EIA485) |
| EY-CM721F020 | modu721 communication module | M-Bus master (EIA232 or EIA485) |
| EY-CM731F020 | modu731 communication module | M-Bus master (M-Bus or EIA232) |
| EY-OP840F001 | modu840 local operating unit | for modu 5 |
| EY-LO625F001 | modu625 dual operating unit | 12 DI/6DO (A-O-I)/4AO |
| EY-LO630F001 | modu630 LED indication | 16 DI |
| EY-LO650F001 | modu650 operating unit with LED | 6 DO (A-O-I) |
| EY-LO650F002 | modu650 operating unit with LED | 3 DO (A-O-I) |
| EY-LO670F001 | modu670 operating unit with LED | 8 DI/4 AO |



SAUTER EY-modulo 5 ecos room automation

| Type | Description | |
|--------------|---------------------------------|--|
| EY-EM510F001 | ecolink510 remote I/O module | 24 V~, 3 relays, 3 Triacs, 3 AO, 4 AI |
| EY-EM511F001 | ecolink511 remote I/O module | 24 V~, 3 Triacs, 3 AO, 4 AI |
| EY-EM512F001 | ecolink512 remote I/O module | 24 V~, 2 Triacs, 2 AO, 4 AI |
| EY-EM514F001 | ecolink514 remote I/O module | 24 V~/=, 4 relays, 6 FET-DO, 4 AO, 4 UI |
| EY-EM515F001 | ecolink515 remote I/O module | 24 V~/=, 6 FET-DO, 4 AO, 4 UI |
| EY-EM520F001 | ecolink520 remote I/O module | 230 V~, 4 relays, 2 DIM-10 V, 4 AI |
| EY-EM521F001 | ecolink521 remote I/O module | 230 V~, 2 relays, 2 DIM-10 V, 4 AI |
| EY-EM522F001 | ecolink522 remote I/O module | 230 V~, 4 relays, 4 DIM-10 V, 4 AO, 4 UI |
| EY-EM523F001 | ecolink523 remote I/O module | 230 V~, 4 DIM-1-10 V, 4 AO, 4 UI |
| EY-EM526F001 | ecolink526 remote I/O module | 230 V~, 3 relays, 2 DIM-10 V, 4 AI |
| EY-EM527F001 | ecolink527 remote I/O module | 230 V~, 4 relays, 4 UI, 4 CI |
| EY-EM580F001 | ecoMod580 wireless interface | Bidirectional, EnOcean wireless standard |
| EY-RC500F001 | ecos500 room automation station | 4 room segments, 16 relays |
| EY-RC500F002 | ecos500 room automation station | 4 room segments, 16 relays, plugin terminals |
| EY-RC502F001 | ecos502 room automation station | 2 room segments, 18 relays |

SAUTER EY-modulo 5 ecos room automation

| Type | Description | |
|--------------|---|---|
| EY-RC504F001 | ecos504 room automation station | 8 room segments |
| EY-RC504F011 | ecos504 room automation station | 8 room segments, KNX |
| EY-RC504F021 | ecos504 room automation station | 8 room segments, DALI |
| EY-RC504F041 | ecos504 room automation station | 8 room segments, SMI |
| EY-RC504FOC1 | ecos504 room automation station | 8 room segments, RS-485/Modbus |
| EY-RC504FOD1 | ecos504 room automation station | 8 room segments, M-Bus |
| EY-RC504F101 | ecos504 room automation station | 8 room segments, moduVWeb |
| EY-RC505F031 | ecos505 room automation station | KNX, DALI COM modules |
| EY-RC505F051 | ecos505 room automation station | SMI, DALI COM modules |
| EY-RC505F061 | ecos505 room automation station | KNX, SMI COM modules |
| EY-RC505F071 | ecos505 room automation station | KNX, SMI, DALI COM modules |
| EY-RC505F081 | ecos505 room automation station | 2 x DALI COM modules |
| EY-RC505F091 | ecos505 room automation station | 2 x SMI, DALI COM modules |
| EY-RC505FOA1 | ecos505 room automation station | KNX, 2 x DALI COM modules |
| EY-RC505FOB1 | ecos505 room automation station | 2 x SMI COM modules |
| EY-RC505FOE1 | ecos505 room automation station | RS-485 (Modbus), M-Bus + RS-232 (M-Bus) modules |
| EY-RU110F100 | ecoUnit110 temperature sensor | NTC, wireless |
| EY-RU141F100 | ecoUnit141 room operating unit | LCD, NTC, dXs, 2 buttons, wireless |
| EY-RU144F100 | ecoUnit144 room operating unit | LCD, NTC, dXs, 4 buttons, wireless |
| EY-RU146F100 | ecoUnit146 room operating unit | LCD, NTC, dXs, 6 buttons, wireless |
| EY-SU106F100 | Push-button unit for room operating unit | 6 buttons, wireless |
| EY-RU310F001 | ecoUnit310 temperature sensor | NTC |
| EY-RU311F001 | ecoUnit311 room operating unit | NTC, dXs |
| EY-RU314F001 | ecoUnit314 room operating unit | NTC, dXs, 2 buttons |
| EY-RU316F001 | ecoUnit316 room operating unit | NTC, dXs, 4 buttons |
| EY-RU341F001 | ecoUnit341 room operating unit | LCD, NTC, dXs, 2 buttons |
| EY-RU344F001 | ecoUnit344 room operating unit | LCD, NTC, dXs, 4 buttons |
| EY-RU346F001 | ecoUnit346 room operating unit | LCD, NTC, dXs, 6 buttons |
| EY-SU306F001 | Push-button unit for room operating unit | 6 buttons |
| EY-RU355F002 | ecoUnit355 room operating unit | OB, LCD, NTC, wh |
| EY-RU355FA02 | ecoUnit355 room operating unit | OB, LCD, NTC, bk |
| EY-RU355F021 | ecoUnit355 room operating unit | 2B (+, -, PRE), LCD, NTC, wh |
| EY-RU355F031 | ecoUnit355 room operating unit | 3B (+, -, PRE), LCD, NTC, wh |
| EY-RU355F032 | ecoUnit355 room operating unit | 3B (+, -, FAN, PRE), LCD, NTC, wh |
| EY-RU355F041 | ecoUnit355 room operating unit | 4B (+, -, FAN, PRE), LCD, NTC, wh |
| EY-RU355F051 | ecoUnit355 room operating unit | 5B (+, -, ECO, FAN, PRE), LCD, NTC, wh |
| EY-RU355FA51 | ecoUnit355 room operating unit | 5B (+, -, ECO, FAN, PRE), LCD, NTC, bk |
| EY-RU355F052 | ecoUnit355 room operating unit | 5B (+, -, AUF, AB, PRE), LCD, NTC, wh |
| EY-RU355F053 | ecoUnit355 room operating unit | 5B (+, -, UP, DN, LI), LCD, NTC, wh |
| EY-RU355F054 | ecoUnit355 room operating unit | 5B (+, -, ECO, FAN, C/F), LCD, NTC, wh |
| EY-SU358F021 | Push-button unit for ecoUnit358 room operating unit | 2B, wh |
| EY-SU358FA21 | Push-button unit for ecoUnit358 room operating unit | 2B, bk |
| EY-SU358F041 | Push-button unit for ecoUnit358 room operating unit | 4B, wh |
| EY-SU358FA41 | Push-button unit for ecoUnit358 room operating unit | 4B, bk |
| EY-SU358F081 | Push-button unit for ecoUnit358 room operating unit | 8B, wh |
| EY-SU358FA81 | Push-button unit for ecoUnit358 room operating unit | 8B, bk |
| EY-RU365F001 | ecoUnit365 touch room operator unit | white, NTC, 6DI |
| EY-RU365FOA1 | ecoUnit365 touch room operator unit | black, NTC, 6DI |
| EY-RU365F002 | ecoUnit365 touch room operator unit | white, NTC, 6DI, Bluetooth |
| EY-RU365FOA2 | ecoUnit365 touch room operator unit | black, NTC, 6DI, Bluetooth |
| EY-RU365F004 | ecoUnit365 touch room operator unit | white, NTC, 6DI, rH, Bluetooth |
| EY-RU365FOA4 | ecoUnit365 touch room operator unit | black, NTC, 6DI, rH, Bluetooth |

Systems

Components

Services

Facility Services

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