



SAUTER EY-modulo 5

Building management to perfection.

The new SAUTER EY-modulo 5 – open, efficient, **multi-functional.**

SAUTER high-end technology – for the highest requirements of integrated building management.

From the best only the best. In one system. Networked, distributed intelligence, the entire knowledge and the concentrated experience from almost 100 years of building automation. We have once again moved the limits with our high-end solution for integrated building management. With the SAUTER EY-modulo 5, we have created a new class of intelligent and energy-efficient buildings, with an ideal, configurable, modular system to meet every demand placed on modern building technology.

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

With SAUTER EY-modulo 5, we comprehensively fulfil all the challenges of open, modular and platform-independent building management. This forward-looking technology is based throughout on the open communication protocol BACnet/IP via Ethernet and any existing IT networks. SAUTER EY-modulo 5 supports full data exchange for complex building management functions, from precise air-conditioning control, via alarm handling and fire protection functions up to comfortable room management – integrated and readily scalable – all in one system.





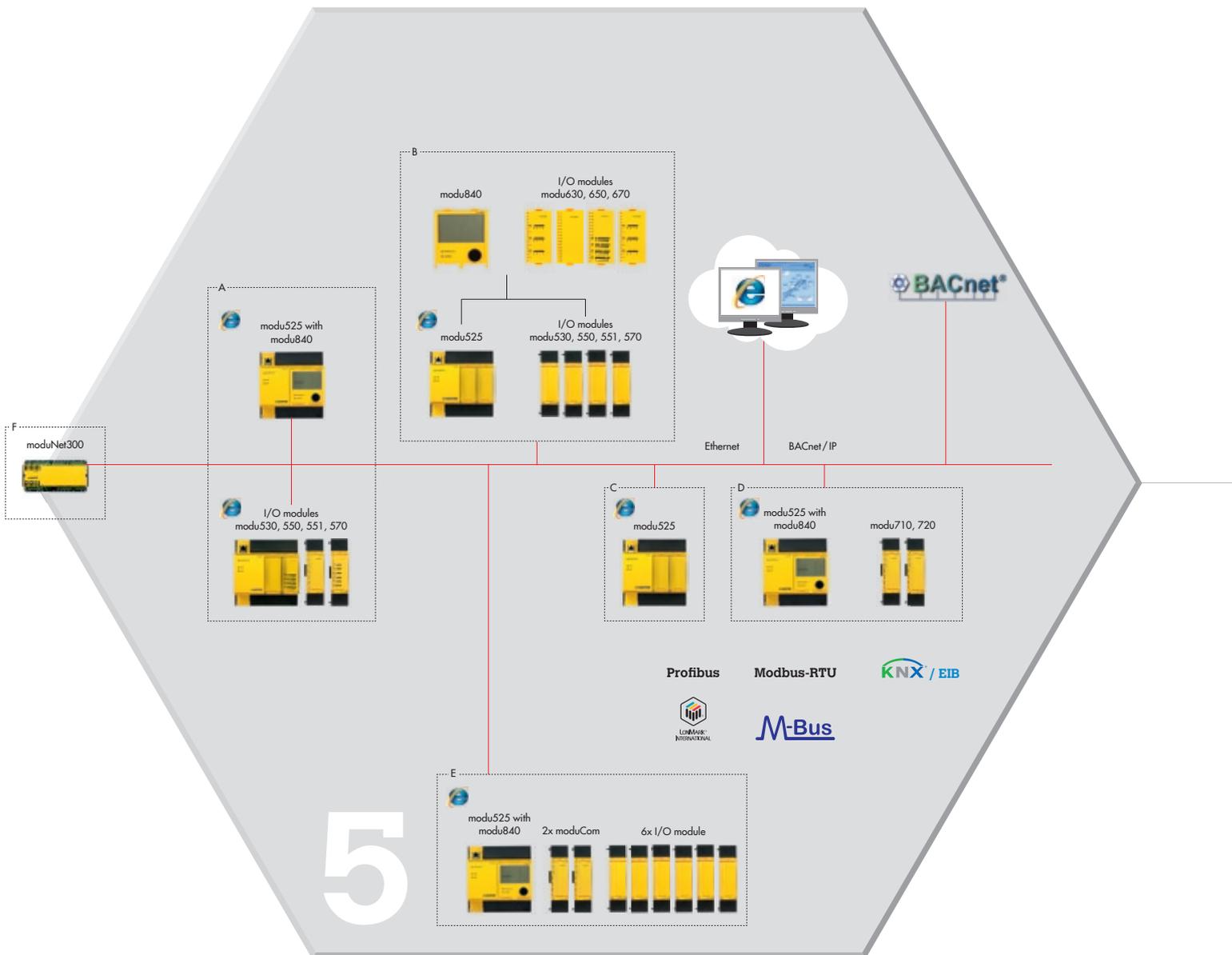
**Energy efficiency is already pre-programmed
in the SAUTER EY-modulo 5.**

The distributed intelligence concept ensures more efficiency at every location of the building automation system. The automation stations have adaptive algorithms and energy-optimisation functions as standard. These automatically adapt to the new situation if a room's usage is changed. The energy requirements are, therefore, precisely controlled according to needs between the various sources of energy and consumers. Finally, we achieve the maximum energy efficiency and, therefore, protect our customer's budgets and the environment for future generations.



Unlimited scalability with open communication throughout.

- A Operation
The user control panels can be mounted directly on the station.
- B Remote control
The user control panels can be mounted in a separate frame several metres away.
- C Basic station
Simplest version of the automation stations.
- D Connection of third-party systems
Integration of third-party systems.
- E Scalability
The maximum memory structure.
- F Integration of EY-modulo 2
Migration from EY3600.



2 or 4, left or right, above or below: **compatibility** with all systems.

Whether for a new building, a refurbishment or migration – full upward and downward compatibility protects your investment.

If you invest in a modern building automation system today, you need the security of knowing that you are also equipped for future requirements. With SAUTER and all types of the SAUTER EY-modulo automation stations, the SAUTER field devices and our comprehensive experience, we offer the know-how and a unique universality from the automation station up to the intelligent unitary controllers. Full compatibility with all systems, independently of the year of manufacture and the generation, and regardless of whether they are based on novaNet, LON, BACnet MS/TP or BACnet/IP, makes SAUTER systems highly flexible and scalable.

Vertically and horizontally open system – perfect interfaces for an overall concept, regardless of the manufacturer.

Thanks to BACnet/IP, we are in a position to fully integrate existing systems (M-Bus, Modbus, LON, etc.). The benefits are obvious: you are independent of the manufacturer and can extend your existing system with the entire range of SAUTER functions without a problem. In addition to vertical integration, SAUTER EY-modulo 5 and BACnet IP also let you create the foundation for building management over all the sub-systems. From the room specification applications up to access control systems, fire protection and alarm systems. The variety of networking possibilities within your building management system means that any conceivable wish can be realised.

One system for integrated building management:

Process heat | Cooling | Heating | Plumbing | Lighting | Shading |
Electrical | Communications | Fire protection | Security | Access control |
Lifts | Emergency power | Ventilation/ Air-conditioning | TV | Internet,
and much more!



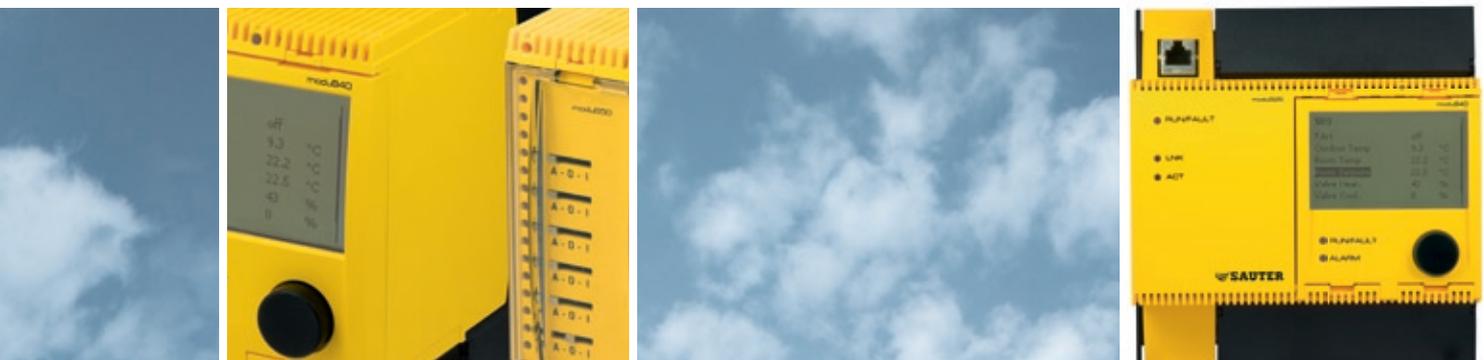
Small but clever, simple but beautiful: **the perfect combination** of function and looks.

The greatest functionality in the smallest space – intelligent modules make this possible.

The most complex control and optimisation requirements can be fulfilled with the SAUTER modular automation stations. All the functionality of the SAUTER firmware is directly available. Tailor-made data-point solutions can extend individual functions and can easily be fitted to the automation station. Due to the modular design, existing systems can be optimised with user panels, display and control units – economically and with little effort.

The design is the optimum dialogue between looks and function in one product.

Modern buildings demand modern technology. We package this in a functional but attractive design. Experience is also demanded here, as the intuitive operation must be both practical and robust at the same time. Simple to install and open to possible extensions. We have, therefore, developed concepts that combine good looks with the greatest functionality for every requirement. Whether hidden in a control cubicle as an automation station or integrated in our living space as an intelligent unitary controller.





SAUTER EY-modulo 5: requirements-based comfort levels for **efficient local operation.**

Comfort level SAUTER automation station with web on board

- Integrated web server as standard
- Operation via PC or touch panel
- Graphic display for the fast recognition of the main information
- Control loop display and alarm overview at a glance

Comfort level SAUTER modu840

- Single-knob manual operation using the "turn & press" method
- Display with intuitive menu navigation on the station itself
- Table or graphic presentation
- Clear operational status display
- Flexible mounting possibilities

Comfort level SAUTER EY-modulo emergency-operation level

- Settings on the module itself
- Mounting and operation based on the "plug & play" principle
- Colour LED display for the display of input and output statuses
- Ample space for text
- Can be mounted remotely from the I/O module and can be retrofitted

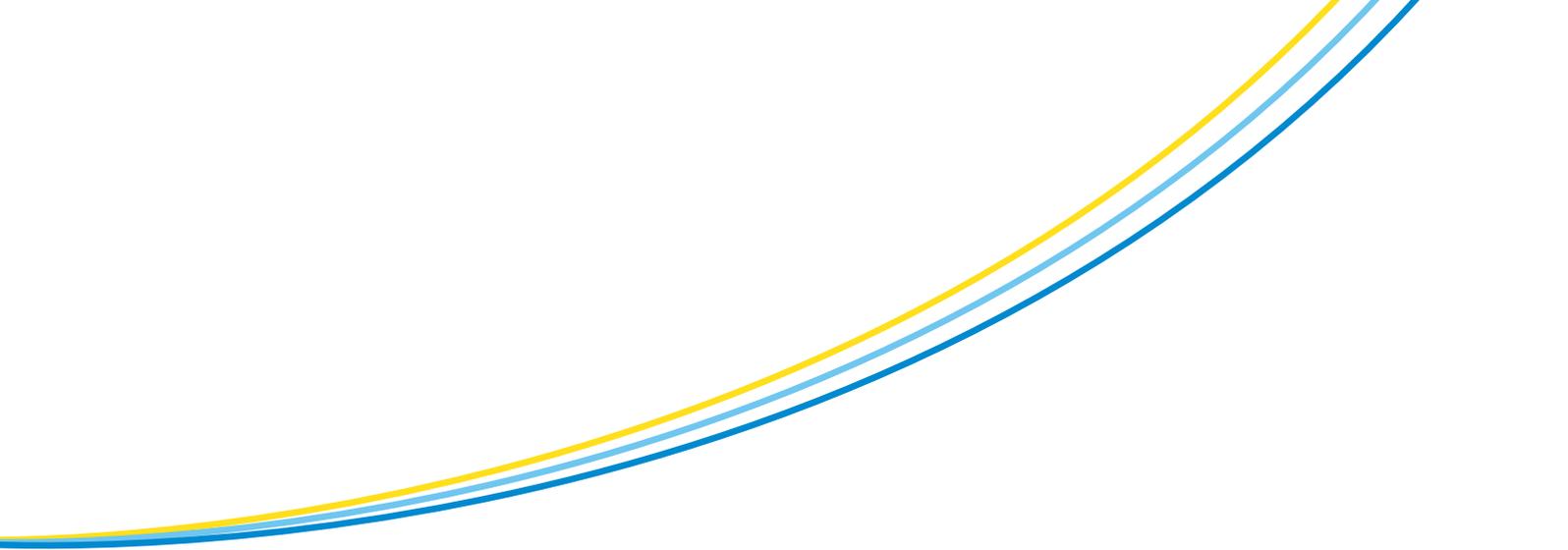


Remote access and alerting function
for short response times, centralised control
and **a good feeling** of security.

Remote operation – fast, economic and secure.

Your system runs smoothly thanks to web-on-board technology. Interactive operation permits regular maintenance and control routines to be carried out efficiently. Any system faults or failures are communicated directly to you, via e-mail or by SMS to your mobile phone or other mobile end device. You can respond immediately and initiate the necessary measures remotely from your PC – a method that is very cost effective. In addition to high stability and the fast correction of operational problems, local maintenance costs are considerably reduced.





The perfect complement: SAUTER novaPro – security and **efficiency** in one management system.

You require more working and operating efficiency?

With SAUTER novaPro, the display software for our new system, you bundle all the information within a building. You monitor functions and function groups, analyse the process and use predictive maintenance tools. The software has been developed by specialists specifically for all building management requirements. Equipped with a remote access possibility and remote display – thanks to modern web technology – it is the perfect complement to the SAUTER EY-modulo 5. Naturally, there are open communications and support for different interfaces.

The latest technology with SAUTER novaPro:

- Full integration of other SAUTER systems and other sub-systems
- Modern web technology for efficient access and centralised control
- Quick overview through comparison of target and actual values
- Uniform data acquisition and evaluation thanks to object-orientated handling and BACnet
- Monitoring and analysis of complete function groups
- Scalable from small up to very large

Where real **energy efficiency** is immediately visible: trends, audits and the right response.

Much more than just navigation and acquisition: active optimisation of consumption with SAUTER.

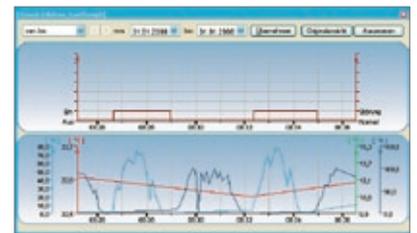
With SAUTER novaPro, you are in the picture, literally! Clear reporting, recording of alarms in realtime, long-term statistics and trends, plus continuous monitoring, prepare the way for maximum energy efficiency in your building. Benchmark comparisons help you to keep a continuous check on your energy consumption and, therefore, your costs. At the same time, SAUTER supports you with substantial proposals for energy optimisation and places its many years of experience at your disposal.

SAUTER novaPro supports the following energy modules:

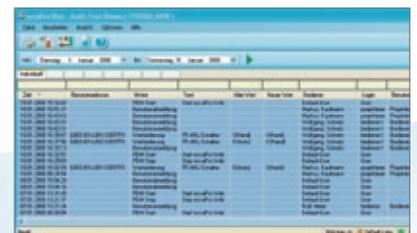
- Electricity peak-load monitoring
- Gas peak-load monitoring
- Weather forecasts
- Heating optimisation
- Cooling optimisation
- and much more



The intuitive menu navigation supports efficient control with short response times.



Clear trends display the energy consumption of your building.



Time	Event	Value	Unit	Location	Category	Priority
2008-08-08 10:00:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:05:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:10:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:15:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:20:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:25:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:30:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:35:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:40:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:45:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:50:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 10:55:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:00:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:05:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:10:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:15:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:20:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:25:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:30:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:35:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:40:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:45:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:50:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 11:55:00	Water flow	10.5	l/s	Water	Normal	Low
2008-08-08 12:00:00	Water flow	10.5	l/s	Water	Normal	Low

Automatic reporting of system events according to FDA guidelines.



SAUTER EY-modulo 5 – functional building management at the highest level.

One system convinces all down the line.

The new SAUTER EY-modulo 5 has a convincing solution for every application, for every requirement and for every demand. We have combined our entire experience in order to develop the best, most economic, most flexible and most efficient response to our customer's requirements. The SAUTER EY-modulo 5 is the result of these high demands placed on our development team.



Automation level SAUTER EY-modulo 5

Type	Designation		Data sheet
EY-AS525F001	Automation station modular modu525	26-154 I/O, BACnet/IP, web	92.016
EY-IO530F001	I/O: input module modu530	8UI/8DI (universal/digital)	92.031
EY-IO550F001	I/O: output module modu550	6 DO (relays)	92.051
EY-IO551F001	I/O: output module modu551	16 DO (open collector)	92.056
EY-IO570F001	I/O: input/output module modu570	8 UI, 4 AO (universal/analogue)	92.061
EY-LO630F001	LO: LED indicators modu630	16 DI	92.081
EY-LO650F001	LO: user control panel with LED modu650	6 DO (A-OI)	92.081
EY-LO650F002	LO: user control panel with LED modu650	3 DO (A-OHI)	92.081
EY-LO670F001	LO: user control panel with LED modu670	8 DI, 4 AO	92.081
EY-OP840F001	Local user control panel modu840	for EY-modulo 5 AS	93.015
EY-CM720F010	COM: Communication module moduCom	RS485, Modbus/RTU-Master	97.011
EY-CM710F010	COM: communication module moduCom	RS232, Modbus/RTU-Master	97.016
EY-CM710F020	COM: communication module moduCom	RS232, M-Bus	97.016



Room management ecos SAUTER EY-modulo 5

Type	Designation		Data sheet
EY-RU141F001	Wireless user control panel, LCD	dXs, without relays	94.010
EY-RU144F001	Wireless user control panel, LCD	NTC, dXs, 2 buttons, without frame	94.010
EY-RU110F001	Wireless user control panel	NTC, without frame	94.010
EY-RU146F001	Wireless user control panel, LCD	dXs, 4 buttons, without frame	94.010
EY-SU106F001	Switching unit for wireless user control panel	6 buttons, without frame	94.025
EY-SU306F001	Switching unit for user control panel	6 buttons, without frame	94.035
EY-RU341F001	User control panel ecos 5, LCD	NTC, dXs, without frame	94.040
EY-RU344F001	User control panel ecos 5, LCD	NTC, dXs, 2 buttons, without frame	94.040
EY-RU346F001	User control panel ecos 5, LCD	NTC, dXs, 4 buttons, without frame	94.040
EY-RU310F001	User control panel ecos 5	NTC, without frame	94.051
EY-RU311F001	User control panel ecos 5	NTC, dXs, without frame	94.051
EY-RU314F001	User control panel ecos 5	NTC, dXs, 2 buttons, without frame	94.051
EY-RU316F001	User control panel ecos 5	NTC, dXs, 4 buttons, without frame	94.051
EY-RC502F001	Room automation station	Double, 18 relays	94.110



Programmable and individual: the indoor climate using **SAUTER ecos.**

Fully automatic or at the push of a button with SAUTER ecos.

Programmable functions for highly personal air-conditioning preferences fulfil every individual wish when people are present, automatically or manually. When people are absent, the EY-modulo runs the entire energy provision for the overall functions – such as ventilation, lighting, heating or cooling, etc. – in the room down to a minimum, which considerably reduces the running costs. In addition to the active protection of the environment achieved by reduced CO₂ emissions, the investment is amortised by the savings after only a short time.

Systems

Components

Services

Facility Management

70011040003 V4

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