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## SAUTER Smart Actuator – Flexibility combined with predictive maintenance

The Smart Actuator enables the heating, ventilation and air-conditioning regulation to be performed, autonomously. SAUTER provides cloud-based configuration data for controlling various components – heating and cooling circuits, ventilation system heating and cooling registers, and heated and chilled ceilings in the many rooms. Commissioning then follows through simple configuration in the MobileApp. Operating data is visualised graphically via the SAUTER Cloud, allowing operation to be optimised online with this sophisticated app.



In the simplest case the wireless network (WLAN) is used, with the SAUTER Smart Actuator conveniently integrated directly into the cloud. Small plant operators in particular benefit from smartphone monitoring and control of their systems through the SAUTER Cloud. Further communication interfaces offer users connection options for all applications. This flexible Smart Actuator features RS-485 and WiFi interfaces, allowing integration in BMS networks. If a BMS (building management system) network already exists, integration is possible through BACnet/IP, MS/TP or even Modbus. Two universal I/Os enable more sensors or actuators to be connected. The optional I/O box can extend the range of applications: the Smart Actuator then regulates the energy flow in individual room control – or heating or cooling generation – with automatic hydronic balancing, for example.

## Predictive instead of reactive maintenance

SAUTER Cloud Services range from commissioning to plant monitoring (inspection) to optimisation (adjustments) and predictive maintenance. Central to these services is continuous inspection. This is possible through additional sensors on the Smart Actuator that record information on its state which is then transferred to the SAUTER Cloud. Here the data is analysed by comparing it to reference values. The actuator's current state can thus be retrieved at any time, allowing maintenance work to be scheduled in a timely manner.

Furthermore, the system takes this data as a basis for recommendations regarding user actions. When compared to a standard installation with controllers and valve actuators, the size and cost of the control cabinet fields are also reduced. And because it requires less wiring, the fire load of the Smart Actuator is lower as well.

## About SAUTER

As the leading provider of solutions for building automation technology in Green Buildings, SAUTER ensures good climate conditions and a sense of well-being in sustainable environments. SAUTER is a specialist in developing, producing and marketing products and systems for energy-efficient total solutions, and offers a comprehensive range of services to ensure the energy-optimised operation of buildings. Our products, solutions and services enable high energy efficiency throughout the entire life-cycle of a building – from planning and construction through to operation – in office and administrative buildings, research and educational facilities, hospitals, industrial buildings and laboratories, airports, leisure facilities, hotels and data centres. With over 100 years' experience and a track record of technological expertise, SAUTER is a proven system integrator that stands for continuous innovation and Swiss quality. SAUTER provides users and operators with an overview of energy flows and consumption, and therefore of the development of the costs involved.

### The SAUTER Group

- Company active worldwide with headquarters in Basel, Switzerland
- Founded in 1910, it is built on more than 100 years of tradition and experience
- With more than 2,300 employees, it is present and active globally
- Complete building management solutions from a single source  
Focus: maximum energy efficiency and sustainability
- Investment protection and operational reliability over the entire building life-cycle
- Technology leader in the building automation and system integration sector
- Member of eu.bac, BACnet Interest Group (BIG-EU), BACnet International, EnOcean Alliance
- Excellent references available at [sauter-controls.com](http://sauter-controls.com)