22 March 2016

**Maximum energy efficiency with SAUTER EMS**

*With the energy management system from SAUTER, energy flows can be easily understood, evaluated and optimised. With its new functions and an extended range of products for energy data logging, SAUTER EMS is the key to company-wide energy management.*

When buildings and properties are situated across a wide area, it takes more than simple diagrams to reveal the vast energy savings they have to offer. The latest versions of SAUTER EMS Server and EMS Mobile provide many extended tools for quantifying and maximising energy efficiency.

**New visualisation forms**

SAUTER EMS now provides supported representation of energy data in the form of Sankey diagrams. Visualised energy flows whose thickness is based on the flow volume are used to represent clearly the energy flows in buildings or production processes. Main inflows and outflows are immediately visible, and flows are automatically identified by colour.

A further highlight is the option to derive polynomial regression lines from the energy data. In contrast to linear regressions, the polynomial method enables users to determine maximum values on a derived efficiency curve with much greater precision. It is therefore valuable for determining the energy signature of a system or component.

Carpet plots are displayed to enable system behaviour over the course of a day or over a longer period to be analysed and optimised. Here, for example, the output or consumption values are visualised using colours.

**Individual details or everything at once**

Detailed analysis is enabled by the new aggregation zoom, with which the user can switch smoothly from the monthly view to the weekly and daily views. The powerful portals of SAUTER EMS Server and EMS Mobile serve as a dashboard and provide direct access to important key figures and tools. The users also now have the option to display the five top consumers in an overview. The same option is also available for various premises and includes sorting based on consumption.

**Data capture made easy**

SAUTER energy data loggers (EDL) are ideal data capture devices with many communication options and an integrated firewall. They enable local and system-independent measured and metered values to be recorded securely and economically on site. The data is aligned periodically with the EMS server, and the measured series can be buffered for several days should the connection to the server be interrupted.

The new SAUTER EDLs are based on powerful processors and are an addition to the existing portfolio in the range of 50 to 10,000 data points. Using the newly integrated HTML5 web interface, projects can be efficiently set up, managed and even integrated into the EMS portals in real time.



*As a leading provider of solutions for building automation technology in Green Buildings, SAUTER provides pleasant 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 of the development of the costs involved.*

The SAUTER Group

* An international corporation with its headquarters in Basel, Switzerland
* Founded in 1910, it can rely on more than 100 years of tradition and experience
* With around 2,200 employees, it is present and active globally
* Complete building management solutions from a single source Focusing on maximum energy efficiency and sustainability
* Safeguarding investments and operational reliability throughout the life-cycle of a building
* Technology leader in the building automation and system integration sector
* Member of eu.bac, BACnet Interest Group (BIG-EU), BACnet International, EnOcean Alliance
* Impressive references at www.sauter-controls.com