GRÜNE ANTWORT

#INTELLIGENTSOLUTIONS

ENERGYCLIPPER

THE INTELLIGENT BUILDING CONTROL

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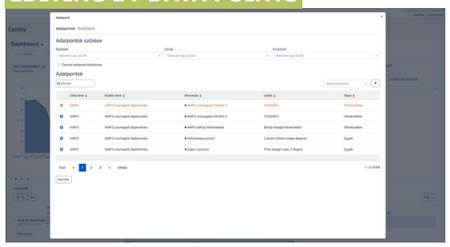
INTELLIGENT CONTROL

CUSTOMIZABLE DASHBOARD

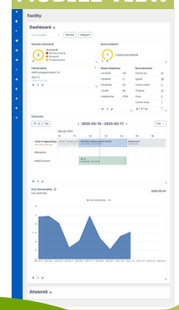
EDITING BY DATA POINTS



CUSTOM DASHBOARD

- Fully customizable widgets and layouts
- Works on both desktop and mobile devices
- Display different measurement points on a single graph
- Custom naming options
- User-friendly interface
- Simple search functionalities
- Around 10 widget types available

MOBILE VIEW

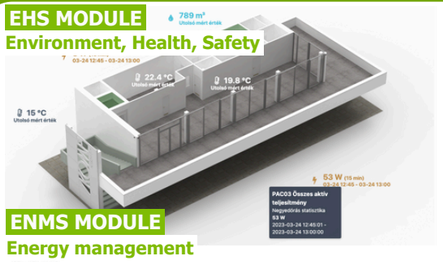


DEVICE OVERVIEW

GRAPHS

EHS MODULE

Environment, Health, Safety

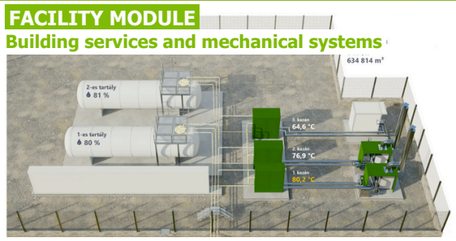


ENMS MODULE

Energy management

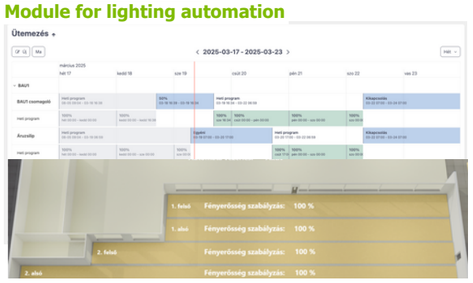
FACILITY MODULE

Building services and mechanical systems



LIGHTING MODULE

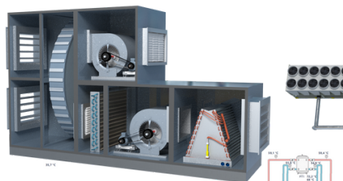
Module for lighting automation

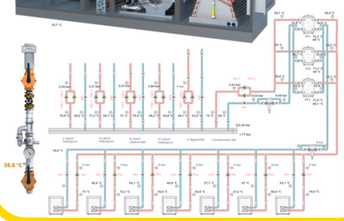


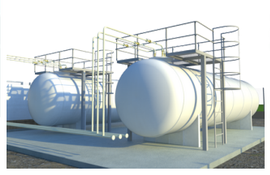
MODULES

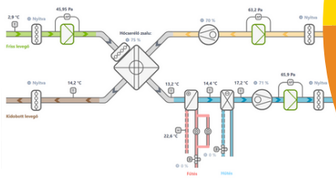
- Facility = Environmental Monitoring System
- EHS = Environment, Health and Safety
- ENMS = Energy Management System
- Lighting module
- Quality
- Logistics

DIGITAL TWIN, SCHEMATIC DRAWINGS AND AI









DIGITAL TWIN

- Realistic graphics
- Active control options
- Customized implementation
- Machine status monitoring

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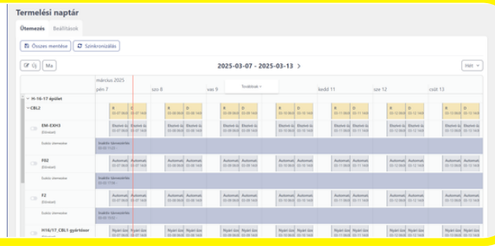
PEAK SHAVING

- Coordinated control of machine groups
- Smart Intervention to Support Energy Management

CONTRACTED POWER MANAGEMENT

INTELLIGENT CONTROL

- System-initiated modes
- Calendar-based scheduling
- Setpoint and status control
- Control of machine groups

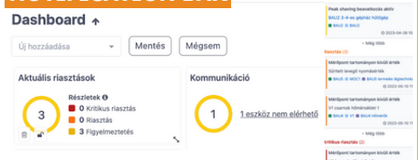


MULTI-LEVEL ALARM CONDITIONS

THRESHOLD ALARMS

STATUS VALUE ALARMS

NOTIFICATION BAR



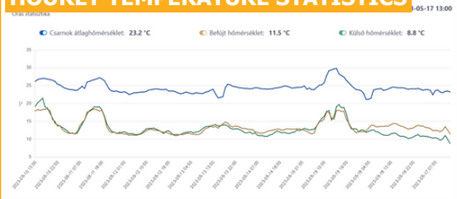
MULTI-LEVEL ALARMS

- Predefined multi-level alarm conditions
- Threshold and status value alarms
- Automatic notifications
- Alarm log

STATISTICS, CHARTS

- Export options (.pdf, .xls, .csv)
- Customizable data, time intervals, measurement types, and formats
- Statistics for specific data points

HOURLY TEMPERATURE STATISTICS



DATA POINT STATISTICS

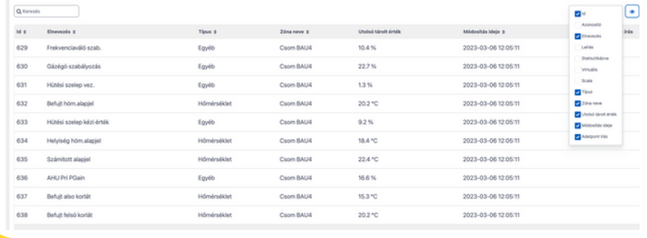
SUMMARY STATISTICS

Solution Partner
Building Technologies
SIEMENS
BACnet
KNX
Modbus
DALI

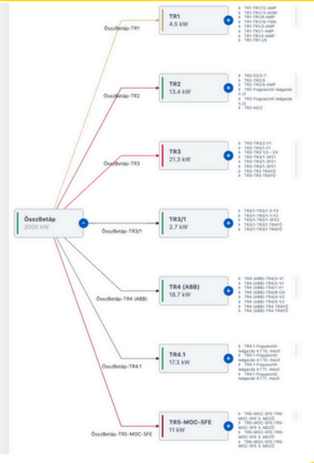
CUSTOM DATA BROWSING FEATURES

- Detailed display of data points
- Machine blocking and maintenance logs
- Data browser
- Hierarchy view
- Reports (scheduled and custom)

DETAILED DISPLAY OF DATA POINTS



SUBMETER HIERARCHY VIEW



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THE INTELLIGENT BUILDING CONTROL

OPERATIONAL RELIABILITY

System stability is always a top priority when developing a building management system. Several features are available to enhance operational safety and to detect possible failures. The system is flexible enough to adapt to network disconnections and automatically restores communication once the device becomes available again.

EXCEPTIONAL ENERGY EFFICIENCY

The building management system offers numerous features that inherently ensure performance optimization. Intervention sequences can be fine-tuned based on local intelligence, allowing for even greater energy efficiency.

CUSTOMIZED USER EXPERIENCE

The system can manage multiple users, each with different levels of access. Additionally, the system's various modules are only accessible with the appropriate permissions. Users can also customize certain content and notifications.

THIRD PARTY DATA POINT INTEGRATION

Regardless of the device manufacturer, our system can communicate with any device that supports major industrial communication standards such as BACnet, Modbus, Profinet, or RestAPI. All data points can be read through regular sampling, and statistics can optionally be calculated from them. A limited number of read/write data points can be integrated, with functions available in the system for their management and modification.

DIGITAL TWIN

Building management devices can feature a unique graphical representation that precisely mirrors reality. Using photos, videos, schematics, or overview images, we create a digital model of the actual equipment and integrate it into the building management system. These graphical elements can later be enhanced with real-time data from any data point.

MAXIMUM CONTROL

We can control any building management device, regardless of the manufacturer, as long as it has network connectivity and communication capabilities. The ability to control the device largely depends on the available read/write data points. Based on this, we can configure additional functions or custom operating modes.

EHS ENVIRONMENT HEALTH AND SAFETY

We provide a dedicated user interface for environmental, health, and safety purposes. Factors affecting the safety of workers (e.g., temperature, humidity, air pressure) are monitored, and alarm notifications can be configured accordingly.

LIGHTING CONTROL

The software's lighting module enables scheduled lighting management, including weekly programming and other scheduled switching options. This ensures energy efficiency and flexible automation.

PEAK SHAVING

A smart energy management solution that not only measures consumption but also actively reduces energy usage through intelligent intervention. By adjusting machine performance according to predefined rules, the system effectively cuts energy peaks, optimizing overall efficiency.

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