Connect switchboards with your Building Management System for energy monitoring and control

iEM3350 - 125 A Modbus energy meter
• built-in current transformers,
• up to 125 A (or >125 A with ext. CTs, iEM3250)
• native smart widget in StruxureWare building operation.

Acti 9 Smartlink Si B - I/O module with wireless communication
• concentrates PowerTag sensors,
• controls contactors and collect breaker status (open, close, trip),
• can collect analog sensors (T°C, CO₂, humidity…),
• easy to wire,
• native communication driver in BMS (Ethernet, Modbus).

PowerTag - Wireless energy sensors on head of groups
• U, I, V, P values,
• energy: partial and total values, class 1 accuracy,
• wireless communication,
• Smart Widget for StruxureWare Building Operation.

PowerTag - Wireless energy sensors on outgoers
• U, I, V, P values,
• active energy partial and total values, class 1 accuracy,
• wireless communication,
• voltage loss alarm,
• Smart Widget for StruxureWare Building Operation.

Automation server - Building Management System
• BMS with easy integration of electrical distribution,
• BacNet IP, TP, LON …,
• Modbus RS485, Modbus TCP/IP,
• smart widgets for one-click integration and monitoring of devices (circuit-breakers, power meters…),
• AdaptiApps for customised building application on smartphone tablets and browsers.

BMS

Your need
Compact solution to reliably monitor and control power in a BMS.
Avoid issues with third party system integrators.

Our solution
Connect all electrical loads with:
• breaker status and monitoring with Acti 9 contactors, OF/SD contacts,
• Modbus meter for main incomer and >63 A circuit monitoring,
• PowerTag wireless energy sensors for <63 A “head of group” and outgoers monitoring,
• one single ethernet connection for the entire distribution board with Acti 9 Smartlink data concentrator.

Benefits
• easy to install wireless energy sensors,
• class 1 accuracy,
• smallest footprint in the board,
• simplified wiring of control and monitoring auxiliaries,
• friendly user interface,
• easy commissioning,
• Excel report with switchboard variables for easier BMS integration,
• open system compatible with BMS/EMS.
Implement your simple solution in a few steps

Installation

Head of groups and outgoers meters:
- PowerTag sensors can be installed with no space lost on the DIN rail,
- wireless communication with Acti 9 Smartlink Si D simplify the wiring.

Acti 9 Smartlink communication system:
- no space taken between 2 DIN rails,
- Ti24 connectors for quick error free connection of auxiliaries.

Commissioning

- free commissioning software for Smartlink including PowerTag energy sensors auto-discovery,
- communication test report,
- Excel report with communication data for easier integration in a BMS:
  - IP and Modbus addresses,
  - variables and Modbus registers with comments to explain behaviour of devices,
  - description of the circuits,
- smart widget for quick integration and commissioning of Acti 9 Smartlink and PowerTag energy sensors in StruxureWare building operation.

Operation

- the power of your BMS to improve your energy performance,
- set up your scheduling,
- visualize your alarms,
- force the control of your circuits,
- display energy dashboards.

Products used

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<td>Automation server</td>
<td>StruxureWare building operation BMS server</td>
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<td>Acti 9 Smartlink Si B</td>
<td>Modular ethernet I/O module with wireless communication</td>
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<td>Modbus meter with external current transformers</td>
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<td>Modbus meter with built-in current transformers &lt;= 125 A</td>
<td>A9MEM3350</td>
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More about PowerTag