

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

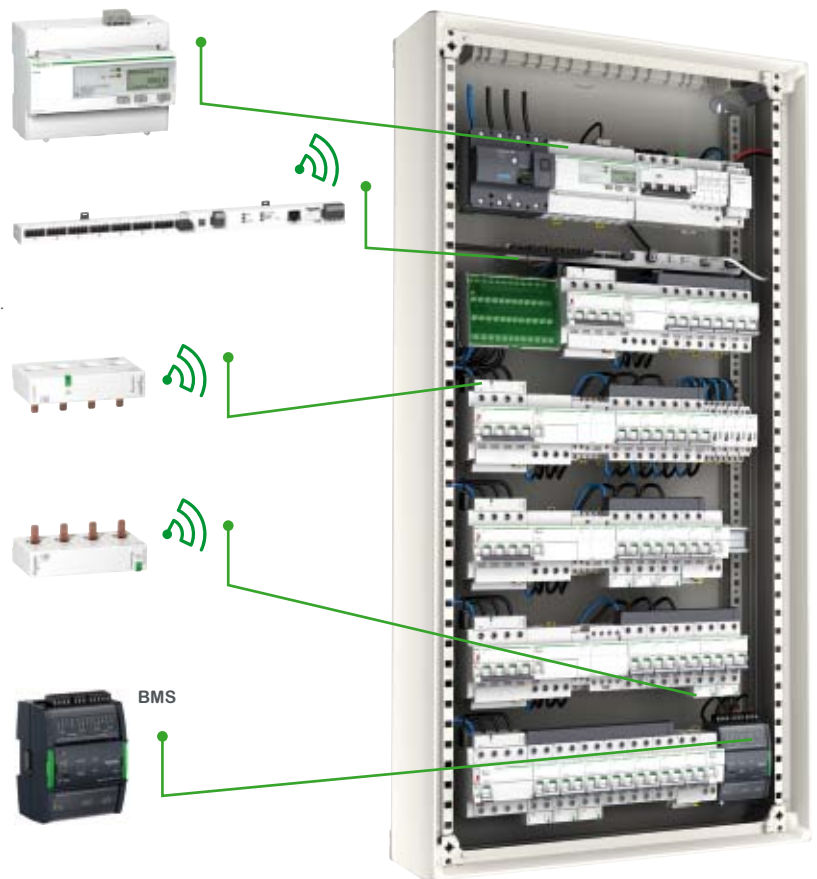
- U, I, V, P values,
- energy: partial and total values, class 1 accuracy,
- wireless communication,
- Smart Widget for StruxureWare Building Operation.

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.



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.

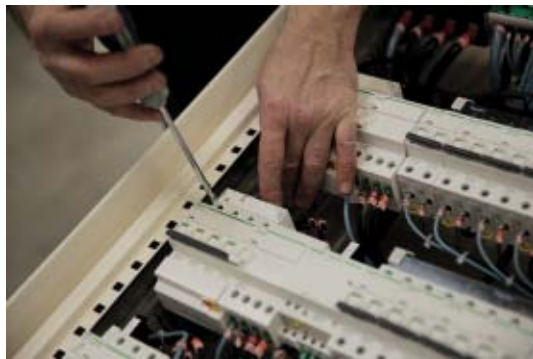
Benefits

- 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.

Preferred application

- office buildings,
- hospitals,
- large buildings.

Implement your simple solution in a few steps



Installation

Head of groups and outgoing 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.

More about PowerTag

<http://www.schneider-electric.com/en/product-range-selector/61356>



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

Product	Description	Cat. no.
Automation server	StruxureWare building operation BMS server	Consult us
Acti 9 Smartlink Si B	Modular ethernet I/O module with wireless communication	A9XMZA08
PowerTag	Energy sensor - 3/4P	A9MEM154●
PowerTag	Energy sensor - 1/2P	A9MEM152●
iEM4300 meter	Modbus meter with external current transformers	A9MEM3250
iEM4300 meter	Modbus meter with built-in current transformers ≤ 125 A	A9MEM3350

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