

Simple Digital Solution for Small Office Buildings

Selection criteria

New building or new electrical installation

- < 5000 m²

Connectivity

- LoRaWAN* public network available on site
- Cloud-based solution
- No impact on building IT infrastructure

Other criteria

- Compliance with energy standards and sustainable initiative
- Cost effective solution with reduced integration time
- Remote operation capability

Performance

Remote monitoring only, no control.

20 switchboards maximum per site to benefit of EcoStruxure Facility Expert efficiency.

15 maximum wireless sensors per PrismaSeT Active wireless Panel Server:

- PowerTag Energy sensors: up to 7
- PowerLogic HeatTag: up to 3
- Other wireless Schneider Electric sensors (OF-SD Auxiliary Contact...)



Future-ready small office building

Customer needs



Building investor/owner

- Maximum value: maintenance and energy cost effective
- Attracting tenants by promoting the building high efficiency
- Respecting energy standards
- Maximizing equipment lifetime
- Optimizing investment



Facility Manager

- Helping the operation team to respond without delay (24/7 monitoring switchboard)
- Condition based monitoring: reduce thermal monitoring inspection while improving fire prevention
- Allowing efficient diagnosis before intervention
- Preventing equipment damage



Contractor

- Keeping close relation with my customer during all the panel's lifecycle
- Opportunity to propose additional services
- Easy service activation (cloud connection < 5min.)



Panel builder

- Easy panel building and commissioning (<1 hour for digital equipment)

Solution functionalities

For commissioning

- Commissioning with mobile app (EcoStruxure™ Power Commission)

For operation

- Power and Voltage loss alert
- Energy metering, including energy index
- Cable overheating detection
- Remote alert on mobile
- 24/7 Low voltage switchboard condition monitoring

Native connectivity
Fire prevention
Simple energy metering

Applications

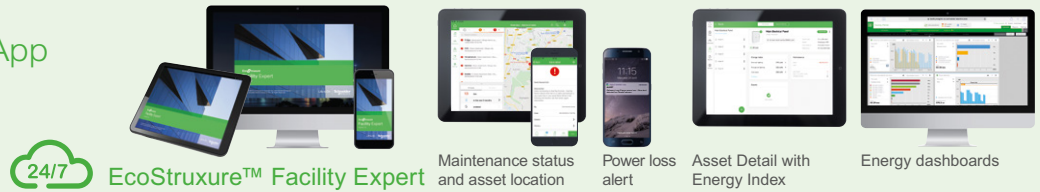
> [Native connectivity for Power Availability](#)

> [Loads Availability and Energy Metering](#)

> [Early detection of cable connection overheating](#)

* **LoRaWAN** (Long-Range Wide-Area Network) is a network protocol designed to connect devices within the IoT-enabled architecture.

Cloud-based Software and App



EcoStruxure™ Facility Expert

Maintenance status and asset location

Power loss alert

Asset Detail with Energy Index

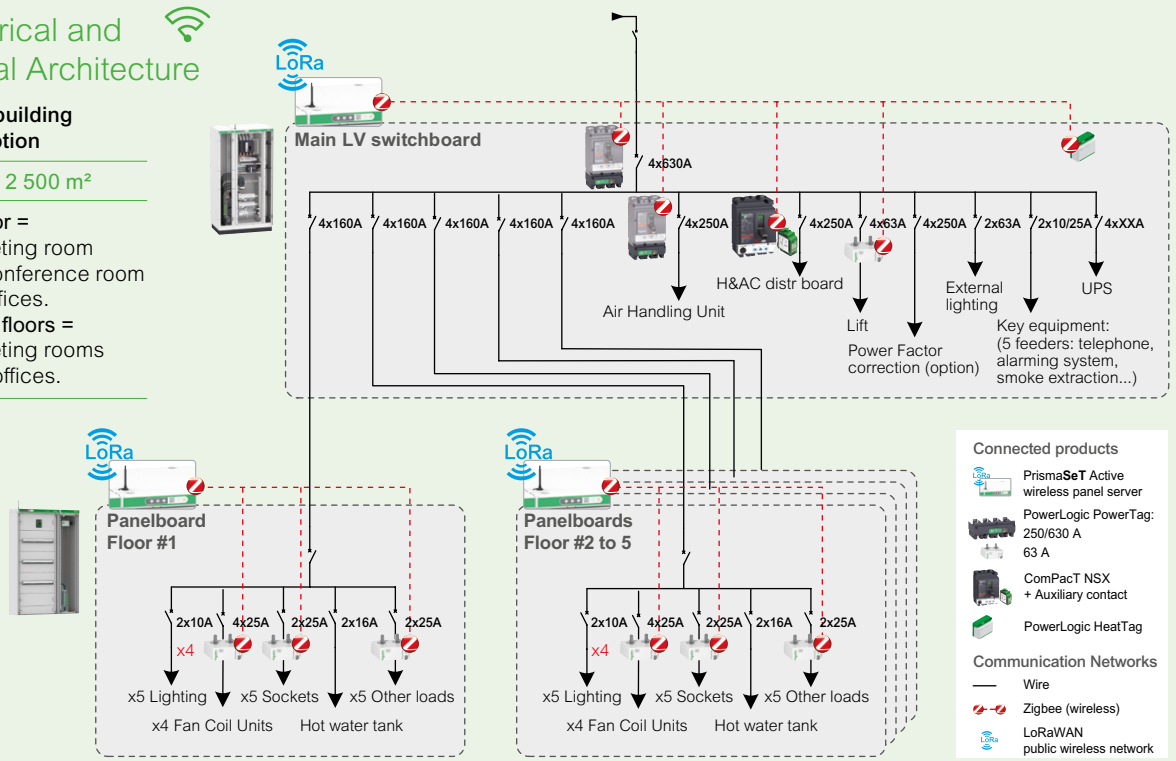
Energy dashboards

Electrical and Digital Architecture

Office building description

5 floors 2 500 m²

- 1st floor =
1 meeting room
+ 1 conference room
+ 4 offices.
- Other floors =
2 meeting rooms
+ 23 offices.



Bill of Material

| Products | | |
|---|---|------------------------|
| Wireless sensor | Function | Reference |
| PowerLogic™ PowerTag Energy | Energy sensor Monoconnect 250 A / 630 A | LV43402• |
| | Energy sensor 63 A | Depend on model |
| PowerLogic™ HeatTag | Wireless sensor for early detection of overheating cables | SMT10020 |
| Auxiliary contact | Auxiliary contact for ComPacT NSX/NSXm | LV429454/LV429453 |
| Panel Type | Function | Reference |
| PrismaSeT P Active / G Active | Wireless panel server | Built-in each panel |
| PrismaSeT G Active Wall Mounted | Optional roof to implement wireless panel server (width 300/600) | LVS08884D/LVS08880D |
| Cloud-based Software and App | | |
| EcoStruxure™ Power Commission | A mobile App to complete easily the commissioning of PrismaSeT Active and sensors. | Free |
| EcoStruxure™ Facility Expert | A cloud-based software and App that helps you to optimize field operations, reduce energy consumption and ensure business continuity. | SVSFE0002 SVSFE0003 |

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