



Bakery application

EcoStruxure™
Innovation At Every Level

Acti9 PowerTag Link C
Facility Expert SB



Requirements

Bakery owner

Reduce prolonged breakdowns of cold storage equipment:

- avoid loss of stored raw materials, semi-finished and finished products
- avoid disruption to the production of bread and pastries
- react quickly in the event of a breakdown.

Monitor bakery operations remotely:

- ensure that the proofing cabinet heats normally at night.

Use as little energy as possible:

- have a clear view of the total energy consumption and that of the most energy-consuming equipment
- choose the optimum oven temperature and heating time to reduce energy consumption in line with expected production.

Installer

The electrician working on the project wants a solution that:

- can be very easily and quickly installed in an existing switchboard
- is easy to choose, cost and put into service
- is innovative, to better meet his customer's needs
- increases customer satisfaction and loyalty.

Proposed solution

Facility Expert SB is the mobile app for bakery owners that provides alerts and lets them view their key equipment in operation.

It also lets them monitor and compare energy consumption.

It is connected to the baker's personal account in Schneider Electric's secure server.

Connected switchboard

Acti9 PowerTag Link C turns a switchboard into a connected object.

It retrieves information from the switchboard and sends the data to the Schneider secure server in the Cloud for processing and analysis.

Acti9 PowerTag Link C is connected to the Internet via the bakery's Internet router.

Devices connected to the switchboard: PowerTag energy sensors for load monitoring and energy measurement.

Advantages

Bakery owner

Monitor key equipment to check that it is working normally:

- receive alerts when any cold storage equipment stops working (negative cold room, positive cold room, chilled cabinets in the sales area)
- check that the deck oven is off and receive alerts if it comes on outside scheduled times
- reduce energy consumption by working efficiently
- monitor total energy consumption
- monitor the energy consumption of key equipment: cold storage, proofing cabinet, oven
- compare energy consumption for different ways of using the oven to make daily production as energy efficient as possible
- and finally, reduce energy costs and increase profits.

Advantages for installers

- Stand out from competitors and get more lucrative projects
- Increase income by selling connected switchboards
- Make their work easier with plug-and-play configuration provided by the mySchneider Electrician eSetup smartphone app.

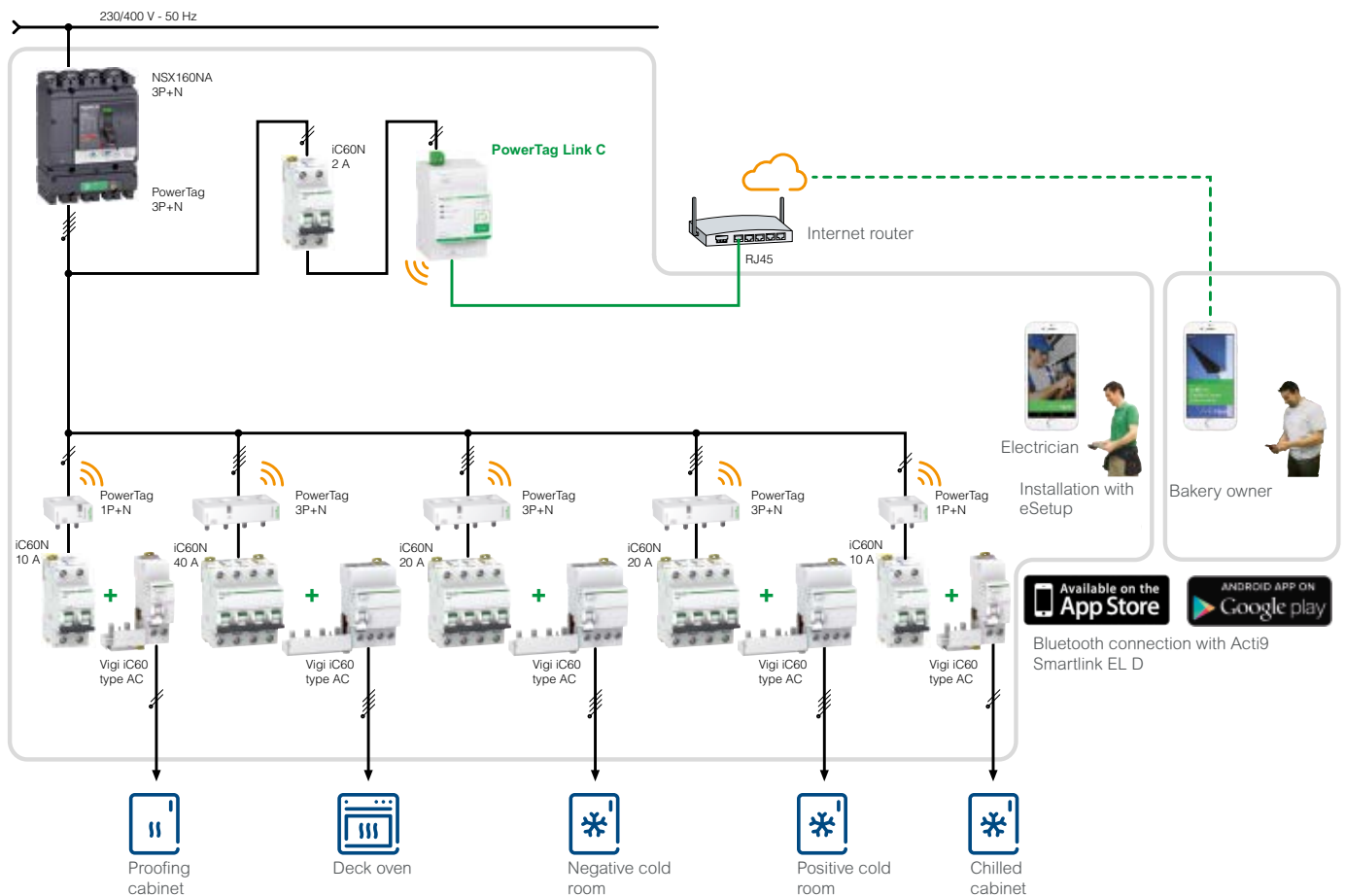


Applications

- Restaurant
- Small supermarket
- Small business
- Small industrial workshop
- etc.

Connected switchboard + smartphone app = efficient management

Solution diagram



Products used

Product	Description	Quantity	Reference
NSX160NA	Compact 4P switch-disconnector	1	LV430639
iC60N	Circuit breaker 4P C20 A	2	A9F77420
iC60N	Circuit breaker 4P C40 A	1	A9F77440
iC60N	Circuit breaker 1P+N C2 A	1	A9F74602
iC60N	Circuit breaker 1P+N C10 A	2	A9F77610
Vigi iC60 4P	Earth leakage module 25 A 300 mA type AC	2	A9Q14425
Vigi iC60 4P	Earth leakage module 40 A 300 mA type AC	1	A9Q14440
Vigi iC60 2P	Earth leakage module 25 A 30 mA type AC	2	A9Q11225
PowerTag NSX 3P+N	Wireless energy sensor - NSX 3P+N	1	LV434021
PowerTag A9 M63 3P+N Top	Wireless energy sensor - iC60	3	A9MEM1541
PowerTag A9 M63 1P+N Top	Wireless energy sensor - iC60	2	A9MEM1521
Acti9 PowerTag Link C	Wireless to Ethernet concentrator	1	A9XELC10