Minimizing downtime and optimizing consumption in a hospital

"One of my concerns for the electrical distribution part is to ensure high availability of current in the common areas of the hospital. Due to increasingly severe economic constraints, I am also looking to save power consumption. I need a simple, scalable and competitive solution which will fit simply into the centralized hospital management system"

Solution

The solution consists of:

- Supervision of the lighting circuit power supply to intervene rapidly in the event of protection system tripping.
- Supervision of the power supply for emergency lighting circuits.
- For non-public areas:
  - remote control of lighting for switching off outside of useful hours
  - allowing local restarting for greater flexibility.
- Checking that the surge arrester protecting the switchboard is in good condition.
- Power consumption measurement.

Equipment used

- An EGX100 gateway for the Modbus TCP/IP Ethernet port at the switchboard level.
- Modbus RS485 Smartlink interface modules especially designed to optimize the electrical distribution boards, connected to the equipment's indication and control auxiliaries.
- A PM3250 power monitoring unit for energy metering and supervision of electrical parameters.

Benefits

For the end user

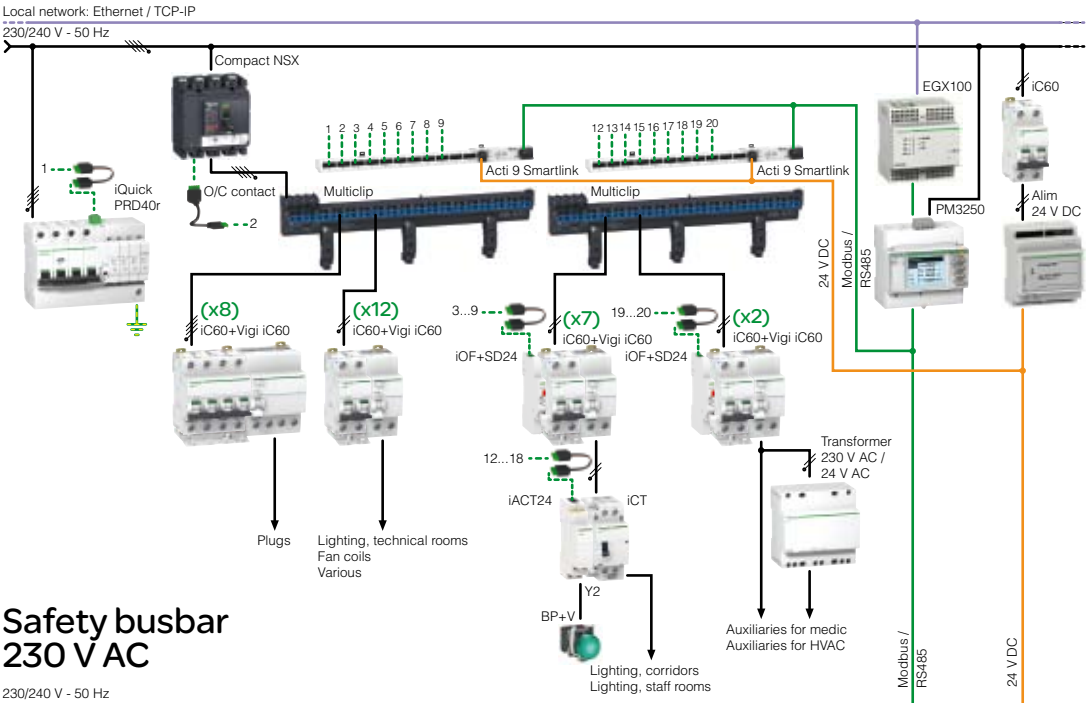
> Minimization of lighting system downtime due to immediate, precise information for more efficient intervention.

> Cost savings due to optimization of lighting time.

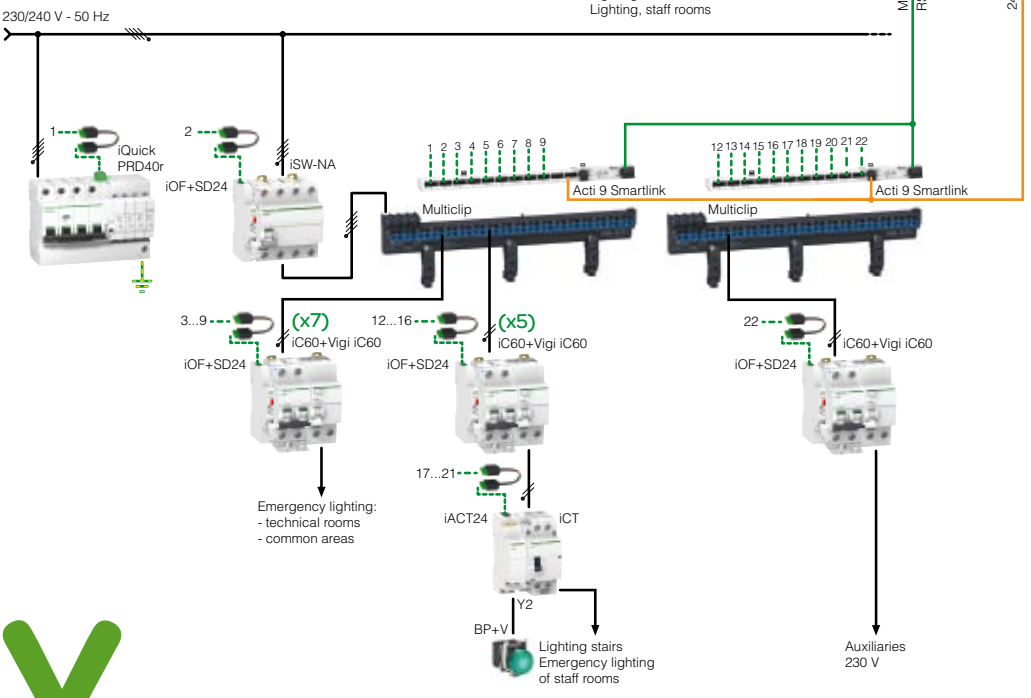
> Control of expenses through visibility of the installation's power consumption and electrical settings.

☑ Measure ☑ Reduce energy consumption ☐ Reduce energy costs

Preferential busbar 230 V AC



Safety busbar 230 V AC



For professionals

+ System integrator

• Time saving for integration into the Building Management System, thanks to the Acti 9 Smartlink which requires no configuration settings.

+ Panelbuilder

• Time saving for installation thanks to pre-wiring between the Acti 9 Smartlink and the switchgear.

Acti 9 Smartlink can very simply connect all the switchboard equipment with a supervision and automatic control system

• Rail mounting, with a row of devices.
• Easy, fast wiring, thanks to 4 types of prefabricated connections and their one-click plug-in connectors.
• 11 channels, to supervise and monitor the Reflex iC60 devices managing lighting.
• Connected to iACT24, Acti 9 Smartlink controls the iCT contactor and obtains feedback from its open/closed position.

PM3250

• This is a cost-attractive, competitive range of DIN rail-mounted power meters ideal for power metering and network monitoring applications in addition to sub-billing and cost allocation applications.

• The Powerlogic PM3000 series power meters are fully compatible with the Acti 9 communication system, which makes it easier than ever to integrate electrical distribution into your customer's facility management system.
• Electrical parameters I, In, U, V, PQS, E, PF, Hz, THD.
• Power/current demand and peak demand.
• Min/max and 14 alarms with time stamping.
• LED to indicate communications.
• Up to 4 tariffs.
• Memory for load profile (demand 10 to 60 min.).
• Wrong wiring detection.
• Display in multiple languages.