

Hospital electricity final distribution

Make Active Safety your new standard



Customer case

Sofia, specifier, is used to work for the hospital of her town. She is currently studying the electrical final distribution for the renovation of the maternity department.

One concern is to mitigate electrical and fire risk generated by the usage of various loads brought by the patients (chargers, hairdryers, fans...). Thus, she is looking for Arc Fault protection.

Other driver is to help the facility manager reduce downtime and ease maintenance work.

She's looking for an adjustable solution with alarm and pre-alarm threshold that could be set during commissioning according to final operating requirement.

Our recommendation

Active Safety System is an all-in-one solution made of:

- Acti9 Active protection range: features a combination of terminal protection (MCB, RCD, AFDD) in a single device.

- EcoStruxure Panel Server (Gateway): connects Acti9 Active to the supervision to provide advanced benefits like alarms and trip diagnostics, pre alarms to notify before the trip happens, circuit monitoring and measurement.

- EcoStruxure analytics solution: unlocks the full potential of your data with proper insights and trend visualizations either with Schneider Electric softwares or other existing supervision systems.

Benefits

For Specifier:

- Possible iterative specification using the benefit of late differentiation of Acti9 Active devices: select today, specify details later.
- Comply with MCB standards IEC 60947-2 and IEC 60898-1.

For Contractor and Panel Builder:

- Save time because no need to look for MCB auxiliaries anymore: they are already included.
- Keep your wiring habits even with such new advanced device: same cabling, same comb busbars.

For Facility manager:

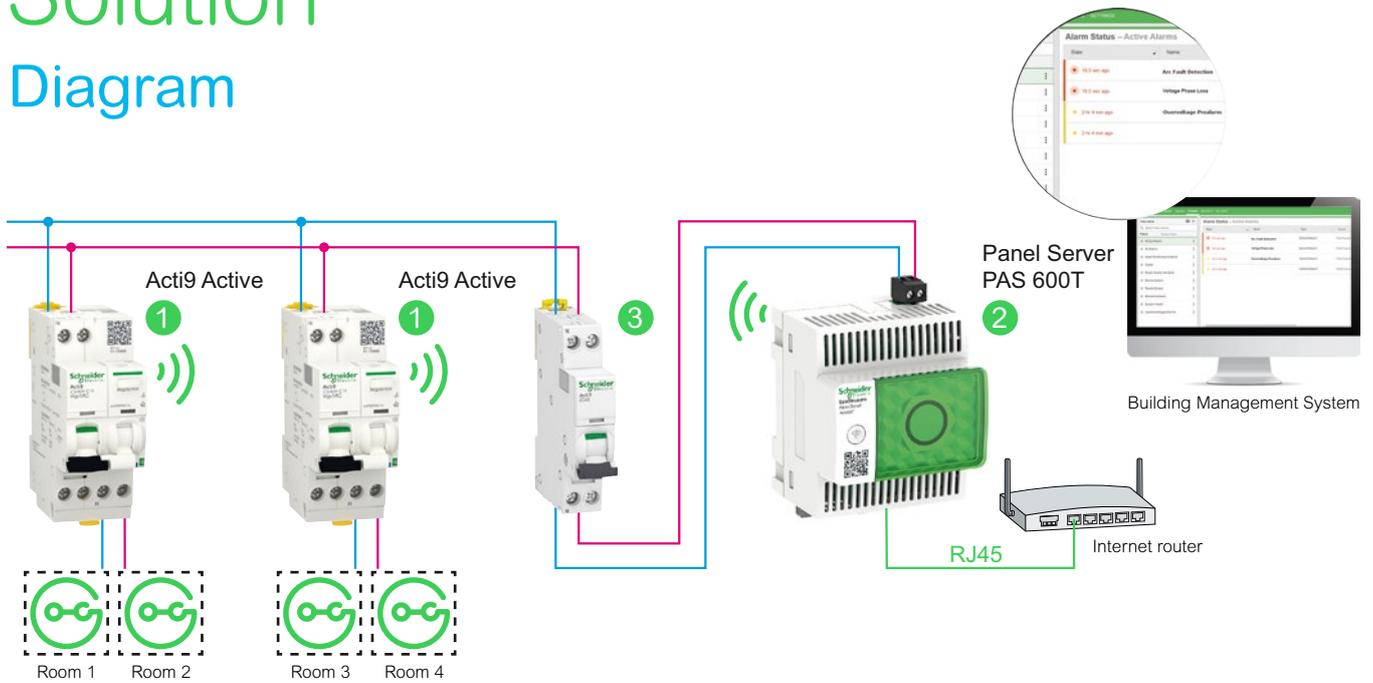
- Anticipate potential downtime thanks to customizable pre-alarming functions.
- Locate and diagnose faster electrical fault.
- Reduce downtime and improve efficiency in operation.

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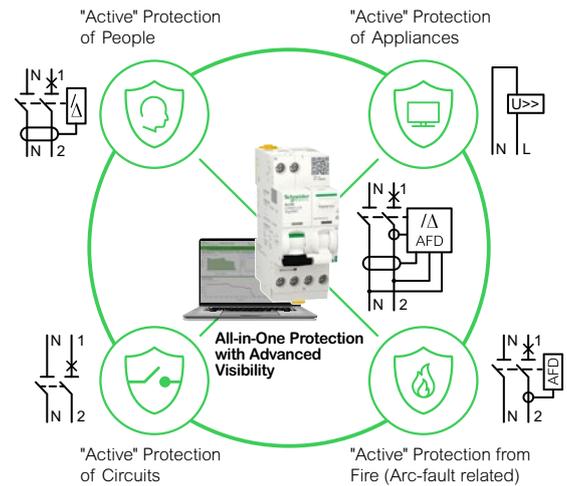
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Solution Diagram



Specifications

- The outgoing should embed into one device: protection against short circuits, overcurrent, overvoltage, residual current and both serial and parallel arc fault.
- Outgoing will embed an inbuilt wireless communication system to notify end-user when approaching tripping threshold.
- The End User shall be able to use the gateway to access downstream Modbus electrical devices, digital inputs and wireless devices values in "real time".
- The gateway shall be able to operate using wide range power supplies: 100 to 240 V AC ($\pm 10\%$) or 24 V DC ($\pm 10\%$).



More About Active Safety System



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Products used		
Product	Function	Reference
1 Acti9 Active	All in One RCBO, AFDD, 16 A, 1P+N	A9TDFD616
2 Panel Server	Gateway EcoStruxure Universal Panel Server	PAS600T
3 Acti9 iC40	MCB protection 2 A, for Panel Server	Depend on country

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