Digital twin of your power distribution
Your substation as part of the digital ecosystem

As an operator or maintenance team member at a power distribution system, the implementation of digitalization brings different challenges. During the present data-driven transformation, it's crucial to leverage performance insights and take decisive action in real time to minimize or even completely prevent downtime.

SIMARIS control: Unlock the full potential of field devices

In electrical substations, medium-voltage switchgear and low-voltage switchboards contain a variety of intelligent field devices, including measuring devices, sensors, and protection relays. These are an excellent source of meaningful data.

SIMARIS control – as an intuitive and intelligent interface – helps operators and maintenance teams unlock the full potential of field devices. 

siemens.com/simaris-control

Your benefits

- Saves up to 20 percent of memory space and resources in the DCS/SCADA system by making local recordings of measured values
- Saves up to 50 percent of costs and space for various monitoring devices in the switchboard by displaying power flows and electrical measured values
- Up to 40 percent more flexibility in local operation thanks to control and parameterization functions
- Higher system availability thanks to health index functionality for optimal maintenance planning
- Parallel independent operation with a higher-level control system (DCS/E-SCADA)
- Easy integration of the SIMARIS control tool into the IT infrastructure and into higher-level automation or cloud-based analysis systems: for example, Mindsphere
Digitalize now, with SIMARIS control: Operate/manage your substation more efficiently

Start your digitalization journey with a state-of-the-art tool for controlling and monitoring electrical power distribution assets, from medium-voltage switchgear to low-voltage switchboards and transformers. SIMARIS control supports you with reliable diagnostics, comprehensive information, parameterization, and control functions. The information simplifies your analysis and improves operational efficiency. Your operational data will be available and stored safely on your company premises so that you have complete control over your data – and peace of mind.

Discover our video tutorials at siemens.com/simaris-control

Power distribution, from medium-voltage to low-voltage

Medium-voltage switchgear with SIPROTEC 5 protection relay

Transformer

SIVACON S8Plus low-voltage switchboard

SIVACON S8Plus low-voltage switchboard with SIMOCODE pro motor management system

SIVACON S8Plus switchboard – Health Index
Manage your energy data – with SIMARIS control

SIMARIS control creates a single integrated system from many individual devices and supports you with five main functions.
Record data – make the most of communication-capable devices

- The data collected from all your field devices will be stored on-site for secure and reliable data analytics
- Helps identify savings potential based on actual operational data and sensor measurements
- Plan predictive maintenance based on reliable status data

Visualize data – get a fast and reliable overview

- Create a comprehensible graphic representation of the system – the digital twin of your power distribution assets
- Visualize the available data in a central panel
- See everything you need to know – with intuitive touch control

Analyze data – easily recognize correlations

- Get your operational diagnostics with the Health Index
- Run analyses faster and more easily and flexibly
- Independent of the higher automation level

Manage switchboard – experience your advantages live

- Set new operational requirements quickly, easily, and flexibly
- Documentation always on hand (parts lists, circuit diagrams, device manuals, and more)

Transfer data – tap the potentials of information exchange

- Download the substation data from existing IT infrastructures or mobile devices
- Integrate your power distribution systems into a comprehensive energy management system or into an overall strategy for predictive maintenance
- Integrate your switchboard into higher-level systems and take advantage of cloud-based analysis systems (like those in MindSphere)
Subject to changes and errors.
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