

MicroSCADA For Substation Automation



Intelligent investment offer from ABB

ABB's Substation Automation solution not only provides intelligent controls, but it also adds up to an intelligent investment. Utilizing the proven MicroSCADA technology, this single technology-based solution **integrates local and remote control of your substation with one open platform, resulting in savings in engineering, maintenance and training costs.**

Open for growth

Scalable from a single-user to a multi-user redundant hot stand-by system, this application grows along with you, allowing you to **add on new equipment, functionality and I/Os.** As such, it helps you to fully optimise the benefits of Substation Automation, starting either gradually with a retrofit or immediately with a greenfield investment. The ABB system allows you to operate your network at its full capacity.

Flexible solution

Local control and monitoring can be implemented through the flexible system; furthermore, **control can be carried out simultaneously from a remote control center.** With the MicroSCADA technology you get relay parameter settings and event history available whenever you need it. Information can easily be filtered, thereby transmitting **only essential and real-time information to the operator.** Also personnel safety is secured as operations can be done from a separate control room.

Increase availability of your substation

The real-time information on your network status and the quick response time from the protective relays, help you effectively reduce possible outage time. **With real-time process control, you can significantly improve electricity quality not only during normal operation but also during station maintenance and fault situations.**



Save time, space and money

You can save on wiring costs in new installations as the **need for additional auxiliary relays is minimized**. Less hardware also contributes to **savings in operation and maintenance costs**, while the reduction in the space required for the substation installation correspondingly decreases the commissioning time. What is more, all the needed information will be right at hand when performing operations locally.

ABB's MicroSCADA is characterized by availability and flexibility, as it is **suitable for any industry and can be tailored to meet customer specific needs**. Comprising **several communication options**, the required information for external systems is available anytime.



ABB Oy

Substation Automation Products
P.O. Box 699
FIN-65101 VAASA, Finland
Phone: +358 1022 11, Fax: +358 1022 41094
www.abb.com/substationautomation

Substation Automation Technology summary:

Functions

- Control and monitoring of the primary process
- Time-tagged sequence of events and alarm presentation for complete information
- Stationwide HMI for supporting the whole range of ABB's Substation Automation Intelligent Electronic Devices
- System supervision overview displaying the operation and status of the complete installed system as well as the protection and control devices
- Setting of relay parameters to optimize the network
- Uploading of disturbance record files from relays for improved outage management and system analysis
- Power-quality monitoring enhances power distribution
- Single line diagram with busbar coloring showing the status of the station
- GPS time synchronization of the station HMI, gateway and the connected bay level IEDs
- Local integrated HMI control function in all IEDs
- Dial-up or direct connection to the office or control center
- Support for standard and de facto standard communication protocols
- Versatile access to mobile phones (WAP, SMS, GPRS)
- Internet functionality possible

Features

- Adaptable to customer-specific requirements
- System openness based on commercially available hardware and operating systems
- Open to third-party software and databases
- Easily expandable system
- Easy maintenance
- High performance and availability
- Extensive multi-level user-authorization handling
- Versatile language support including operator-specific language sets and fonts
- Multi-user support, enabling simultaneous connections
- Easy and user-friendly process navigation with a common look and feel
- Additional support for third-party products via OPC