

ZEE600 ROP

Remote operating panel for medium and low voltage switchgear



The ZEE600 remote operating panel makes switchgear operation safer and more secure. Bringing together the strengths of digital switchgear, IEC 61850 and ABB zenon Electrification Edition, the ZEE600 ROP is more compact, easier to install and faster to commission than conventional systems.

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01 Safe & secure operation with ZEE600 ROP

A cost-effective and future-proof solution for:

- Remote manual & semi-automated switching
- Switchgear supervision and alarming
- Asset and operation data logging
- Incident investigation
- Gateway applications

Benefits include:

- Increased operator safety
- Easy installation, commissioning and operation
- Universal solution for medium and low voltage equipment at new and existing sites
- IEC 61850 compliant communication with flexibility for modern, legacy and 3rd party equipment
- 100% on-premise and cyber secure solution

Safety is our highest priority

Electric arcs can occur during switchgear operation due to human error or faulty connections. Depending on the quality of the switchgear and the installation, personnel in the room are exposed to flames, flying debris, smoke and overpressure.

Maintaining a safe distance from the equipment provides the most effective means of avoiding injury. To keep your personnel safe, invest in remote operation technology enabled by ABB zenon Electrification Edition - ZEE600.

Maximum value delivery for new & existing sites

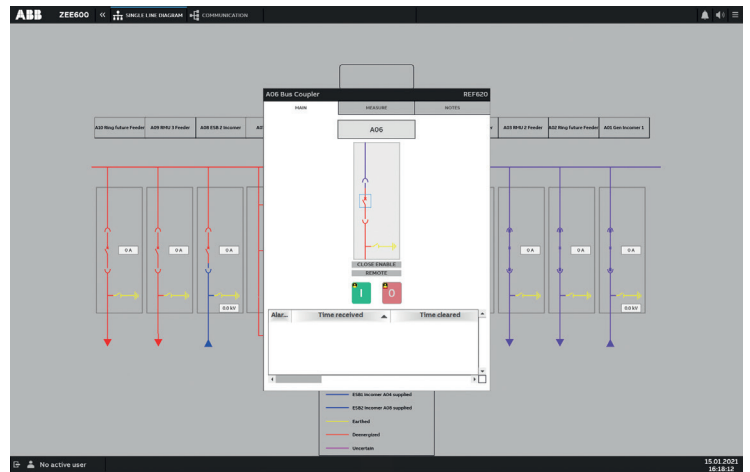
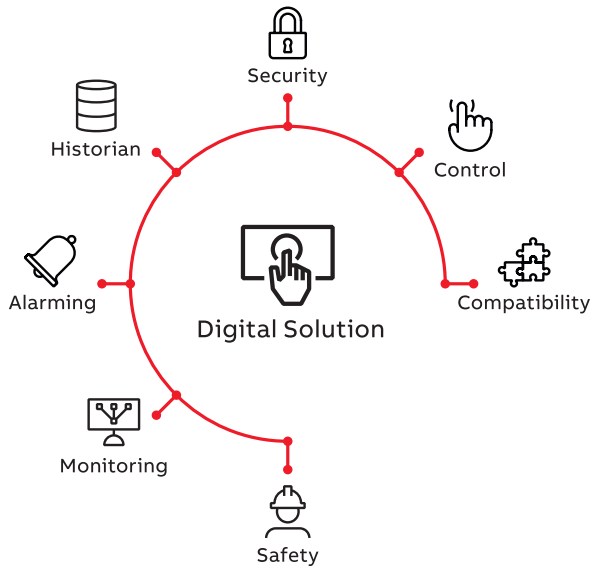
Delivered as a wall-mount cabinet with a touch screen interface, the ZEE600 remote operating panel (ROP) enables comprehensive and intuitive supervision of medium and low voltage switchgear. It can be installed in the electrical room or - for safer switching - in a separate control room.

Installation is straightforward. With bus-based communication, pulling copper control cabling is a thing of the past. As for commissioning, the factory-tested panel is operational within minutes.

The ZEE600 ROP delivers highest value when paired with ABB's Relion® family protection relays for MV systems and with ABB's smart circuit breakers from the Emax 2 and Tmax XT product families in LV switchgear. For retrofit projects, ZEE600 provides >300 drivers for compatibility with legacy and 3rd party equipment.

Leverage digitalization for safe & secure operation

Incorrect or unwanted switching in a distribution grid, datacenter or factory can damage equipment, lead to millions in financial losses and endanger personnel. Security features of the ZEE600 platform ensure that only trained and authorized personnel can control the switchgear and only when conditions are suitable.



01

- 01 Full range of functionality
- 02 Station-wide visibility with ZEE600

The ZEE600 ROP is a completely on-premise solution that requires no internet connection. It can be operated as a stand-alone system or within the local network and is hardened against external interference.

User management on the panel ensures that only approved users can access and operate the switchgear. ZEE600 offers over 120 configurable authorization levels and can be integrated with central user administration systems such as Active Directory.

Navigation and control over the touch screen interface are straightforward and intuitive. ZEE600 provides clear visual indications and user-friendly text for any issues that could block safe operation.

All commands require confirmation before execution so there is no risk of unintentional actions. To take switching a step further, the command sequencer extension allows complete sequences to be configured and tested in simulation mode before execution on the live system.

In the rare cases in which work on the switchgear is required, for example during maintenance by ABB-certified service engineers, control from the ZEE600 ROP can be disabled with a local/remote selector switch.

The universally-applicable design allows users to work confidently over multiple sites, voltage levels and switchgear types with minimal training.

02

Root cause analysis in secure conditions

With ZEE600, past incidents in the installation can be analyzed to ensure they don't happen again.

The remote operating panel continuously logs switchgear data like alarms as well as user actions such as login attempts and switching commands. Additional data incl. model, serial number, last service date or inspection results can also be archived for future reference. All information is stored securely and remotely, so analysis is possible even after a major fault.

For detailed investigation, the remote operating panel can be extended to include measurement trending as well as central disturbance record collection and viewing. All new data logs are then available on the ROP, so operators no longer need to access compromised equipment to collect disturbance files.

A comprehensive digital solution that stays up to speed with the latest requirements

ABB ZEE600 is a future-proof system. New equipment and functions can be added on-site to match the evolving operation philosophy. As the workforce changes, users accounts can be updated directly by the site administrator without any intervention by ABB.

To unlock the full potential of digitalization, communication interfaces can be added to upgrade the remote operating panel into a complete supervision, control & gateway platform.