

# Life cycle services for distribution protection and control relays

## Relay Retrofit Program for REX 521



ABB's Relay Retrofit Program for REX 521 offers smooth and controlled replacement of existing REX 521 protection relays with new developments from the Relion® 615 series, representing the latest protection and control technology. The result is extended switchgear lifetime, full availability of relay life cycle services, and the possibility to adapt the power protection system to meet new requirements.

01 REX 521 relay and new Relion® 615 series relay as replacement

### Targeting reliable and secure power distribution

The Relay Retrofit Program for REX 521 allows convenient replacement of selected REX 521 relay variants with corresponding new 615 series relays.

The functionality of the replacement relay corresponds to that of the existing REX 521 relay, but can also be extended to include additional protection functions, such as arc flash protection. As the 615 series relays fully support the IEC 61850 standard for communication and interoperability of substation automation devices, the program also provides an opportunity to upgrade the entire communication system at the same time, to better meet today's protection requirements.

The program represents an excellent way to modernize the protection and control system, and to ensure increased productivity and efficiency through further improved reliability of power supply.

### Benefits

- Controlled and repeatable procedure for replacing REX 521 relays with new 615 series relays
- All-in-one program for successful and timely scheduled execution of retrofit projects – saving time and money
- Minimized shutdown time due to fast and easy installation with no major new wiring
- Enhanced personnel safety with access to the latest protection and control functionality
- Benefit of the latest software developments
- Extended switchgear lifetime with new protection relay and technology
- Future-proof protection solution with IEC 61850 standard-based Relion 615 series relays
- Assured, future availability of life cycle services
- Easy, fast and exact machining of existing panel cutout with handheld all-in-one cutting tool



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01 Cutting tool for REX 521 panel cutout

02 REX 521 and REF615 with prewired terminals



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### Fast and easy replacement of protection relays

In addition to the 615 series replacement relays, the Relay Retrofit Program for REX 521 offers all the necessary accessories, and hardware and software tools needed for a successful and timely scheduled execution of retrofit projects. To minimize the need for rewiring and updating the existing schematic drawings, the relays come with prewired terminals. This complete package ensures that the downtime of production or power distribution processes is reduced to a bare minimum.

The Relay Retrofit Program for REX 521 supports the entire replacement process – from engineering, through installation, to testing of the relay and covers:

- Always included
  - Relion 615 series replacement relay with prewired terminals and mounting assembly
  - Documentation
- For installation personnel
  - Configuration template for replacement relay
  - Cutting tool
- On demand
  - Relion® 611/615 BIO-Tester (for stand-alone 615 relay)
  - Training

For more information please contact:

More information:  
[www.abb.com/service](http://www.abb.com/service)  
[www.abb.com/mediumvoltage](http://www.abb.com/mediumvoltage)

