Life Cycle Services for distribution protection and control
Relion® BIO-Testers

Customer support throughout the entire product life cycle.

Did you know that testing binary inputs and outputs can be fast and easy?

Relion® BIO-Testers are intended for testing the binary inputs and outputs of Relion® protection relays. These easy-to-use and compact testers can be used both for simulation during the design of the application configuration, including troubleshooting, as well as for routine maintenance and testing.

Relion® BIO-Testers – an easy, fast and safe choice
Binary inputs and outputs (BIOs) play an important role in the overall operation of protection relays, for example in various control and interlocking schemes, and by generating alarm and trip signals to the circuit breaker. Incorrect operation of a control scheme may pose a safety risk to the personnel, damage the equipment and result in process or revenue loss. Ensuring the healthiness of the BIOs through simulation and testing is therefore advisable.

BIOs can be tested already at the primary design stage to ensure the correctness of the logic as well as during routine maintenance and testing. Relion® BIO-Testers have been specifically developed to facilitate the testing of both the configuration and the operation of inputs and outputs. Where using a digital ohmmeter is laborious, the BIO testers make the simulation and testing fast, safe and easy.
Relion® BIO-Tester range
BIO-Tester Relion® 611/615 can be used with the following Relion relays:
• REF611, REM611, REB611
• REF615, REM615, RET615, RED615, REU615, REV615
• REC615, RER615

BIO-Tester Relion® 630 can be used with the following Relion relays:
• REF630, REM630, RET630, REG630

BIO-Tester Relion® REX640 can be used with the all-in-one protection and control relay REX640.

Benefits
• Easy and fast simulation of the configuration during the entire relay lifetime
• Minimized risk of configuration errors
• Less time required for testing the operation of inputs and outputs
• Short payback due to time savings and reduced number of configuration errors
• Safe to operate due to low operating voltage and fully sheltered housing
• Easy to use – no training required
• Easy to bring on-site due to portability

Content of delivery
The BIO tester delivery includes:
• Tester with connector cables
• AC adapter and power cord (only power cord for BIO-Tester Relion® REX640)
• User guidelines

Additional information
For more information, please contact your local ABB representative or visit our website at:
- www.abb.com/service
- www.abb.com/mediumvoltage