



**Power Plant Electrical
Technologies (Pty) Ltd**



PRO-FLEX RANGE

A Practical Training and Demonstration Platform
for the ABB REX615 Relay

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INTRODUCTION

The Pro-Flex training platform gives engineers and technicians practical experience with ABB's latest REX615 multifunction relay - without risking operational equipment.

The REX615 is the replacement for the entire 615 and 620 series of ABB relays, and due to its large range of applications as the all-in-one protection and control solution for power generation and distribution, will be, or already is, one of the most used relays on the market, and on your specific site.

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- Feeder protection
- Bay control
- Transformer protection
- Line differential protection
- Motor protection
- Generator protection
- Busbar protection
- Capacitor bank protection
- Voltage protection.

With its **versatility and comprehensive** suite of protective functions, the **REX615** is designed to enhance the reliability and efficiency of electrical systems. Whether it's safeguarding vital components in a power plant or ensuring the smooth operation of industrial motors, this relay provides robust protection and control capabilities.

The integration of the REX615 into your systems not only simplifies maintenance but also optimizes performance, as it can be easily adapted to meet specific site requirements. Its modularity allows for tailored configurations, making it suitable for a wide range of environments and applications. As industries continue to evolve, the REX 615 stands as a pivotal tool in modernizing infrastructure and ensuring operational continuity.



The **REX615** is configured using the user friendly PCM600 software engineering tool, wherein I/O and signal mapping can be conducted. Users of the Pro-Flex will be able to familiarize themselves with this tool and gain exposure on how protection and control equipment is managed on their site, how the protection and control equipment can be monitored and how breakdowns can be diagnosed and prevented.

PRO-FLEX ALLOWS USERS TO LEARN HANDS-ON HOW A REX615 RELAY OPERATES BY PROVIDING ACCESS TO:

- Human Machine Interface
- Binary and Analog Inputs and Outputs
- Protection Settings
- Local & Remote Control
- Condition Monitoring
- Fault Monitoring
- PLC Logic
- Test Points
- An externally connected contactor allowing demonstration with a real load.
- All necessary wiring and cabinetry allowing the Pro-Flex to be operated as-is, using only a 220VAC domestic socket, in a training centre or workshop.

This setup ensures that users can engage with realistic scenarios without the complexities typically associated with field installations. By offering a comprehensive and safe training environment, **Pro-Flex** empowers individuals to gain practical experience, enhancing their technical skills and confidence.

This hands-on approach not only fosters a deeper understanding of relay operations but also encourages proactive problem-solving, making it an invaluable tool for both novice learners and seasoned professionals looking to refine their expertise.

THIS ENABLES A USER TO CONDUCT AND PRACTICE IMPORTANT RELAY TESTS SUCH AS:

- **Secondary Injection Tests:** start/operate/reset values, pickup/dropout and operate time.
- **Circuit-breaker control verification:** local/remote open-close, trip simulation, trip/close coil outputs, status feedback checking and interlocks.
- **HMI and event verification:** readouts of test responses and logical signals via the front HMI.
- **Internal Relay Fault and auxiliary circuits testing:** internal fault output test, arc-flash sensor checking, and verification of related external circuitry.



TECHNICAL PERSONNEL WILL NOW BE ABLE TO:

- **Develop** competence and familiarity with a component which is usually attached to their most operation-critical electrical infrastructure.
- **Practice and train** themselves to be able to conduct important electrical relay tests.
- **Simulate** relay protection and verify settings.

All without the risk of negatively impacting their processes or being exposed to the dangerous levels of electricity that areas in which the **REX615** is used, typically contain.



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