

What's new in RelayHelper 3.1

1. Channel zoom (in/out)

You can now zoom in and out of waveforms in the extended main window view. Two centering algorithms and a reset function are available.

2. Protection page updates

New protection modules added:

- **7UTxxx V5** transformer differential protection (5th generation relay series, German manufacturer)
- **7SSxxx V5** busbar differential protection (5th generation relay series, German manufacturer)
- **DB linker** (power protection page) for **7UMxxx** generator protection
- **P6xx** transformer differential protection (US manufacturer)
- **Phase selection** module for **REx670** protection systems (Japanese manufacturer)

Fixes:

- **Load Encroachment** module for **REx670** now correctly responds to phase-to-phase loops
- **Q→Y ; P→X** option (power protection) now correctly redraws the trajectory

Changes:

- **Fault location** module now supports unit switching (units/km ↔ units)

3. Calculation updates

- Added **V/Hz channel** calculation
- Averaging is now available for the **Frequency channel** and **df/dt** calculation
- Fixed division-by-zero handling in **Custom Channels** (results are now saved correctly)
- Fixed **Three phase** power calculation when power flow directions differ between phases
- Fixed **Band-Pass filter** (higher frequency band is now calculated correctly)

4. Added support for FLOAT32 COMTRADE files

5. Plan updates

- **Complex calculator** is now available in all plans
- **Distance protection** is now available in the Basic and Pro plan
- **Differential protection** moved to the Pro plan