

ARCO Control

What's New in Version 1.60

Compared to Version 1.50



1 General

ARCO Control 1.60 is a recommended update for all users, offering feature improvements and resolving some issues.

The major changes compared to ARCO Control 1.50 are listed below. Many other minor improvements and fixes have also been implemented, but they are not mentioned here.

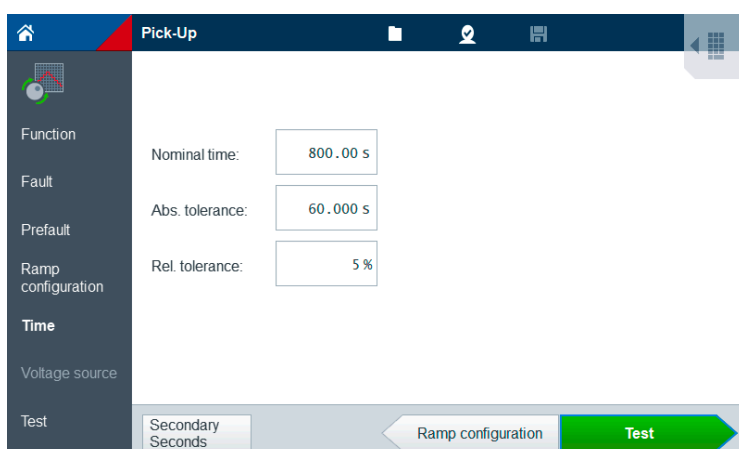
2 What's new

2.1 Anti-Islanding Protection Testing within the Pick-Up Test Tool

The **Pick-Up** test tool now has additional modes for anti-islanding protection testing. These are:

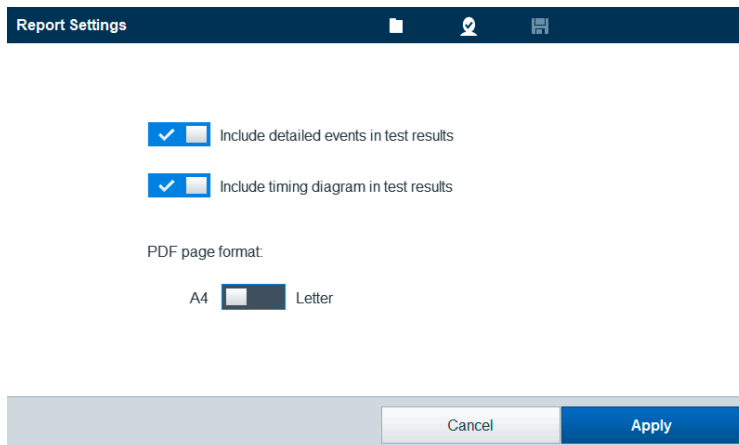
- > **Voltage stage 2** and **Frequency stage 2** enable the testing of stage 2 protection functions using a pulse ramp method, thus avoiding the triggering of stage 1 protection.
- > **Vector shift** enables the testing of voltage phase angle shifts.
- > **RoCoF** enables the testing of the rate of change of frequency protection functions using a frequency gradient method.

Additionally, pre-fault settings are now available for all modes. These settings enable you to output normal signals for a specified duration before simulating the actual fault. Furthermore, timers have been extended to support longer trip durations, making it easier to work at solar sites that require trip times exceeding ten minutes.



2.2 Customizable PDF Export for Smarter Reporting

ARCO Control now supports the saving of reports in PDF format, which makes it easier to share and archive test results. You can choose to include detailed event logs and timing diagrams in the report. You also have the option to export in A4 or Letter page format.



Report Settings

Include detailed events in test results

Include timing diagram in test results

PDF page format:

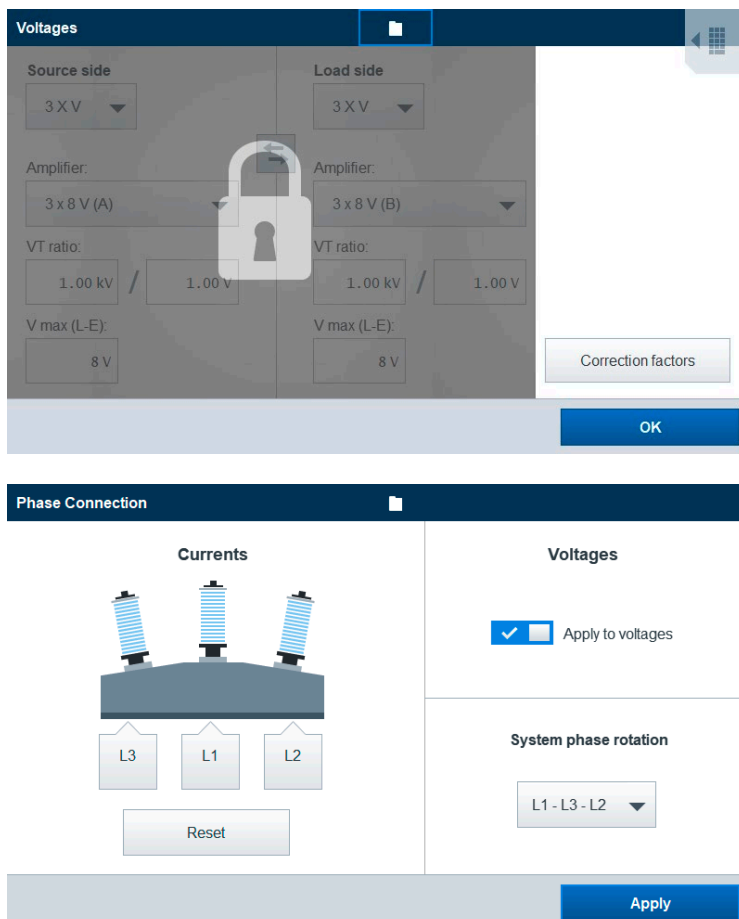
A4 Letter

Cancel Apply

2.3 Correction Factors and Phase Connection Adjustable in Test Plan Mode

You can now adjust voltage correction factors and phase connection directly within individual test plans. This new capability allows flexible adaptation to different system conditions without needing to create a separate test plan for each system under test. By enabling customization at the parameter level, the update simplifies test setup workflows and enhances scalability across a wide range of testing environments.

Note: VT ratios and CT ratios cannot be changed within that mode.



Voltages

Source side: 3 X V

Load side: 3 X V

Amplifier: 3 x 8 V (A) (locked)

Amplifier: 3 x 8 V (B)

VT ratio: 1.00 kV / 1.00 V

VT ratio: 1.00 kV / 1.00 V

V max (L-E): 8 V

V max (L-E): 8 V

Correction factors

OK

Phase Connection

Currents

L3 L1 L2

Reset

Voltages

Apply to voltages

System phase rotation

L1 - L3 - L2

Apply

3 Minor changes

- > **ReCoPlan:** Changing the phase connection for current inputs now updates the trip and close signals visibly, providing clearer feedback during configuration.
- > **ReCoPlan:** Opening a sample test plan no longer changes your last folder location, which makes file navigation smoother and more intuitive.
- > **Improved Report Workflow:** Cancelling report creation for the first time no longer prevents access to the Save Report dialog, allowing you to continue without restarting the process.
- > **Vulnerability Management:** All software components have been updated to address known vulnerabilities and ensure alignment with the latest security standards.

4 Fixed issues

- > The issue in the **Pick-Up** test tool that caused the application to crash when using automatic ramps with 'from = to' has been resolved.
- > Load times in the **Tripping Sequence** test tool are now labeled correctly in the case of recloser/successful reclose.
- > The overcurrent time adder in the **Trip Time Characteristics** test tool now provides the correct calculation.
- > The progress bars in the **Restoration** test tool now works as intended for line or midpoint reclosers (N/C) – open for upstream fault work.
- > Previously, certain voltage values could trigger error messages. This issue has been resolved.
- > Unnecessary line breaks in reports have been removed, resulting in cleaner layouts and more professional-looking documentation.
- > Various smaller fixes have been made to the user interface.

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www.omicronenergy.com

Subject to change without notice.