Quick Start Guide
Relion® 611 series

1 Display
   Use navigation buttons for entering to submenus

2 Self-supervision and protection indicator LEDs
   Ready-LED steady: OK, Ready-LED flashing: Internal Relay Fault (IRF),
   Start-LED steady: protection started, Start-LED flashing: protection function blocked,
   Trip-LED: protection operated

3 Programmable LEDs
   Can be programmed for alarming and indication with latching and/or flashing features

4 Control Circuit Breaker (CB)
   Press open/close and confirm by pressing enter. Note: control has to be in Local mode.

5 Escape / Cancel
   Used for canceling actions and leaving setting mode without saving the values.
   Returns back to menu.

6 Navigation
   Left = go back, Right = go further, Up = scroll up, Down = scroll down.
   Are also used for changing setting values.

7 Enter / Select
   Entering to parameter setting mode and confirming new values

8 Local / Remote
   Changes the control between Local/Remote

9 Help
   View help menu

10 Front communication port
   RJ-45 port can be used for connecting the IED to a PC
Using the local HMI

Accessing main menu and changing parameters
Press 🔄 to navigate to the main menu from the measurements view.

From the main menu, go to Settings and press 🔄. Then press 1 or 2 to select the setting value you want to change. Press 🔄 to change it with 1 or 2 buttons. If there is a “#” mark on the same line as the parameter value, you have to first select which setting group parameter you want to change. If there is no “#” mark then you can change the value directly by pressing 🔄 and then with 1 or 2 or 3 or 4 buttons.

You can change all parameters in the same way. The most common function block names are described at the end of this document.

Storing settings
Parameters have to be stored before taken into use. Store the settings by going back to the main menu by pressing the 🔄 button. The IED will ask for confirmation to commit changes, answer “Yes”. Some changes require the IED to reboot before the changes are taken into use. Reboot the IED by going to main menu Configuration → General → Software reset or by switching the auxiliary power off and back on.

Changing the overcurrent start value
From the main menu, go to Settings → Settings → select setting group, default 1 and press 🔄 → Current Protection → PHLPTOC1 → Start value.

Changing function block naming from IEC 61850 names to IEC 60617
From the main menu, go to Configuration → HMI → FB Naming convention.

Checking binary input value
From the main menu, go to Monitoring → I/O Status → Binary input values → select correct BIO card.

Checking fault records and measurement values of the latest faults
From the main menu, go to Monitoring → Recorded data → Fault record.

Clearing events, indications and programmable LEDs
From the main menu, go to Clear. Select the item you want to clear and press 🔄 and select Clear by pressing 1 (Cancel will disappear). Confirm by pressing 🔄.

Checking IED order code, serial number, HW revision and software version
From the main menu, go to Information → Product Identifiers.

Display header area
The icon area at the upper right corner of the display shows the current action or user level. These are described below:
S = Parameters are being stored
! = Warning and/or indication
V = Viewer
O = Operator
E = Engineer
A = Administrator

Checking the input and output status of a function block
From the main menu, go to Monitoring → I/O status.

Checking the IP address
The address of the front communication port is fixed: 192.168.0.254. If the IED is equipped with a communication card you can check the IP address of the rear communication port from the main menu Configuration → Communication → Ethernet → Rear port(s).

Activating the Web HMI
To activate the Web HMI from the main menu go to Configuration → HMI → Web HMI mode. Activation requires rebooting the IED.

Changing the display contrast
Hold 🔄 and press 1 or 2 to change the display contrast. The display contrast setting is automatically stored when A (Administrator) is visible in the icon area at the upper right corner of the display.
Using the Web HMI

Connect PC to the IED front communication port with an Ethernet cable. Enter the IP address 192.168.0.254 in a web browser. For full access, login with administrator username and password. The username is “ADMINISTRATOR” and the default password is “remote0004”.

Changing the overcurrent start value via WebHMI
It is important to enable writing to the IED. If write is disabled it is not possible to change settings.

Click settings in the left menu bar, then go to Settings → Settings → Current Protection → PHLPTOC1 → Start value.

After you have changed the start value parameter, click “Write to IED” and click “Commit” in the notification bar that opens.

Input and output signal configuration
Click the corresponding area to view a specific logical group, and then the switch groups included in the logical group are listed in the Function View page. Click “Overview” to go back to the overview page.
Most common function blocks

The most common function blocks are listed below, see the full list from the operators manual. Available function blocks varies depending on the selected IED and standard configuration.

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Complete customer documentation is available in the product pages that can be accessed through abb.com/reliion.

For more information, please contact

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