

Document class Release Note
Document ID 2NGA002260
Classification Public
Business Unit ABB Oy, Distribution Solutions
Page 1/4
Date (dd.mm.yyyy) 28.05.2024

Firmware update release 1.1.4 for REC615 / RER615 protection and control relays

Scope

The firmware update release 1.1.4 is for the following REC615 / RER615 products:

- REC615 IEC & CN version 1.1
- RER615 IEC & CN version 1.1

To verify that the firmware update applies to the protection relay version, ensure that the first and last two characters of the order code on the label on top of the human-machine interface (HMI) match the corresponding characters of the order code in Fig. 1.

HXXXXXXXXXXXXXXXXX1F

Fig 1. Order code of the REC615 / RER615 control and protection relays

To identify the current firmware (SW) revision of the REC615 / RER615 protection and control relay, please Refer to Fig. 2.

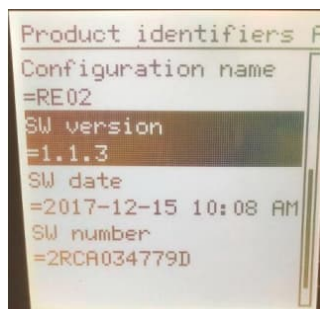


Fig. 2 The firmware revision of the REC615/RER615 control and protection relay

Implemented usability improvements

The firmware update release includes usability and operational improvements. The following improvements have been implemented:¹

Firmware update release 1.1.4

Supervision

- Improvement to self-supervision watchdog function, by enhanced task scheduling.
- Self-supervision improvements by enhanced Single Event Upset (SEU) detection and application function blocking handling.
- FPGA CRC error (Code 83) self-recovery delay shortened to 5 seconds for the 3 first FPGA error detection. 4th and following FPGA error detections will have the normal 10 min recovery delay, before permanent IRF state. FPGA Error counter remains as long as relay is continuously powered.

Firmware update release 1.1.3

Communication

- IEC 60850-5-104 communication has been improved in case IP adress was set to 0.0.0.0.

Control

- Improvement to the synchrocheck function for preventing unexpected short-period reset of SYNC_OK output. The reset could have been seen in some start-up situations with high load currents even when the synchronism conditions were fulfilled and voltages were aligned on both sides of the breaker.

HMI

- Improved Local HMI firmware to avoid some rare HMI freezing in very short and repetitive auxiliary power interruptions.

Protection

- Improvement to intermittent earth-fault protection function in minimum operate current scaling.

¹ The relay firmware update may also include some minor usability improvements not listed in this note.



Date	28.05.2024
Page	3/4
Subject	Firmware update release

Update procedure

Firmware updates represent an integral part of ABB's life cycle management of distribution protection and control relays. The updates ensure optimized usability throughout the relay's entire life cycle by offering the latest improvements. The ideal time for a firmware update would be at device commissioning, during periodical testing or a maintenance break.

Please also install the latest version of the connectivity package for PCM600. (This is available via the update manager tool within PCM600)

Please note that ABB will not be liable for any direct or indirect costs related to the firmware update procedure. The update procedure shall be performed at the sole responsibility of the possessor of the devices.