

Digital Fault Recorder – RPV 311

HW-E, FW 15A00.00

Product Notification

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Date of Release

22 Nov 2024, 01 Dec 2024 for production

Summary

The processing unit of the RPV-311 device is composed by CPU, Firmware, and Mechanical Chassis. These components needed to be redesigned to address global component shortage issues, enable new sourcing of critical component, optimize the design and to address Cyber Security Standards.

Since 2018, RPV-311 has been offered with hardware version D and firmware versions 14A00. This product notification announces the availability of a new hardware version (HW-E) and a new firmware version (FW-15A00).

In terms of compatibility, customers using devices with HW-D (and even previous HW-C) can get the benefit of this release by upgrading their devices to the newest firmware version FW-15A00. This upgrade doesn't require an order code change in the device.

RPV-311 processing unit with HW-E and FW-15 includes:

- **New:** Cybersecurity enhanced kernel version
- **New:** Performance enhanced when Simulated SV are in the network.
- **New:** Warning signal for Traveling Waves Records monitoring and diagnostic.
- **Improvements:** Earth connection and Electromagnetic Compatibility Performance (EMC).
- **Removed:** Console ports (DB9, USB, RJ11)
- **Removed:** Flash player for web configuration.
- **Backwards compatible:** FW-15 is backward compatible with HW-C and HW-D Models.

RPV311 documentation and ordering tools has been updated to add the new revision of the Hardware and Firmware.

Note 1: Before executing FW updates in HW-D and HW-C please refer to the linked release note.

Background

RPV-311 HW and Firmware Revisions:

- HW-C and FW 11 (April 2016)
- HW-D and FW 14 (December 2018)
- **New** HW E and FW 15 (November 2024). This redesigned version of the Hardware and Firmware Versions are direct replacement of previous versions.

Recommendation

The redesigned RPV-311 Hardware and Firmware are mechanically and electrically compatible with existing and previous RPV-311.

HW-E keeps all previous RPV-311 features except the ones related to console ports described above.

HW-E is only compatible with FW 15A00.

FW-15A00 enhances cyber security and monitoring functions while keeps all previous FW-14A00 features except the ones related to Flash Player Web configurator described above.

HW-E and FW 15A00 are only compatible with DR Manager version 9.3.0.

RPV-311 HW-E and FW-15A00 Order Code

The order code of an RPV-311 device were updated to include the new HW and FW versions as per below:

Variants	Order Number						
	1-6	7	8	9-11	12	13-14	15
Model Type RPV311 Multifunction Recorder	RPV311						
Power Supply 100-250 Vdc / 110-240 Vac		3					
Network Interface Two RJ45 copper or duplex ST-type connector 100BASE-X Ethernet interfaces			0				
Functions and Protocols Fault Recorder Sequence of Events Recorder Disturbance Recorder Continuous Fault and Disturbance Recorder Phasor Measurement Unit (PMU) GOOSE Message Subscription MODBUS/DNP3.0 Interface Power Quality IEC 61850-9-2LE Inputs Travelling Wave Fault Location Waveform Measurement Unit (WMU)				*** *** *** *** *** *** *** *** *** ***			
Customization / Regionalisation GE branding						C	
Firmware Version Firmware 15							15
Hardware Design Suffix Fith version							E

For Further Assistance

For questions or further product support, please contact the GE support team using:

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