

Subject: PowerLogic P5 Firmware Release Note
Date: 16th February 2026
Revision: V1 for V02.503.101
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Digital Power Line of Business has the pleasure to announce a new firmware release of PowerLogic™ P5 protection and control relays available in February 2026

1. Executive summary for Feb 2026 release.

The Digital Power Line of Business, Protection & Control announces a new firmware and hardware release which brings an important functionality update of the PowerLogic P5 protection and control relay. In addition, the enhancements to existing protection functions have been delivered as well as a regular package of corrections and bug-fixes. This firmware release is based on V02.502.103 firmware and concerns all the models: P5U20, P5V20, P5F30, P5M30, P5T30 and P5L30.

Please visit your local Schneider Electric website, PowerLogic P5 product page or contact Customer Care Center to get the documentation about this release.

2. What's new?

Offer structure	The 3 LPCT + CSH + 4 LPVT analogue module is now available in P5L30 Line Differential model. It allows to apply line differential protection between the switchgears equipped with proportional low power instrument transformers (LPCT). What is more, the ANSI 87L line differential protection can cooperate in a mixed scheme where P5L30 at one line end works with LPCTs and P5L30 at another line end works with conventional CTs. This feature brings the opportunity to use low power instrument transformers more widely, improving operational safety and boosting sustainability.
Protection	Directional Transient Earth-Fault Protection (ANSI 67NT) has been introduced in P5F30. The protection element includes innovative detection method to improve the reliability. The function operates on the transients of neutral voltage and neutral current at the earth-fault inception. It uses pre-trained neural network element and deep learning technique for direction judgement. Combined with a standard earth-fault confirmation based on neutral voltage, this delivers a new performance and reliability level. The function works for all types of faults (permanent, self-extinguishing, intermittent) in 50 Hz isolated and compensated radial systems.

Platform	Firmware upgrade is now possible with retention of the settings. Retained data are protection settings, logic, IEC 61850 configuration, Passwords/Access, Zigbee sensors data, advanced logic and second language. This reduces the risk of human errors and improves the maintenance time of PowerLogic P5 protection and control relay. Please check the conditions and guidelines in the User Guide. Bootling process of the PowerLogic P5 protection and control relay has been improved. Two step approach has been introduced where protection is enabled first, and IEC 61850 protocol functionality comes later. In addition, the behaviour of Maintenance LED has been aligned with the new bootling sequence.
Continuous engineering	A regular package of enhancements, corrections and bug-fixes has been introduced.

3. The latest firmware release for P5x20 and P5x30.

Hardware version: B Firmware version: V02 Release / Build: 503.101 Language: V5.401 Release date: 16 th Feb 2026 First serial number:	Platform	Auto-reset of latched LEDs has been introduced.
		Disturbance record file transfer through WebHMI has been introduced.
		Editable label and Editable description functions have been enhanced.
		3rd party low power instrument transformers (LPITs) without shorting of pins 3-6 (Schneider Electric specific) can be used now with PowerLogic P5.
		The customized alarm display has been introduced.
		Bootling process of the relay has been improved.
		Configuration restoration after firmware upgrade has been introduced.
	Protection	The calculated neutral voltage (VN) channel is now available in disturbance recorder.
		Directional Transient Earth Fault Protection (ANSI 67NT) has been introduced in P5F30.

		The option of LPCT/LPVT analogue module has been introduced to P5L30 Line Differential model.
		Line differential protection (ANSI 87L) has been enhanced to operate with LPCT-LPCT and mixed CT-LPCT schemes.
		Energy sign convention settings has been introduced which allows definition of energy import and export measurement independent from the power flow direction.
		User selection of trip signal (global trip, general trip 1, general trip 2) has been introduced in SOL reset configuration.
		The maximum operate delay setting of over/undervoltage protection (ANSI 27 and ANSI 59) has been increased from 600 s to 1800 s.
		Broken conductor I2/I1 (ANSI 46BC) pick-up value setting range has been extended to 2%–90%.
		The reset ratio of overfluxing V/f protection (ANSI 24) in P5T30 has been updated from 95% to 98%.
		The voltage value is now forced to zero if the measurement is lower than 5‰.
		The pick-up value setting of frequency protection (ANSI 81) has been extended to 40Hz - 70Hz.
		The indication of 5th harmonic signal has been introduced to the matrix of P5T30 Transformer Differential model.
		The indication of unrestraint differential protection trip has been introduced to the matrix of P5T30 Transformer Differential and P5L30 Line Differential models.
		Auto-reclose sequence co-ordination setting has been introduced to facilitate the protection grading between upstream and downstream re-closing devices.

	Control	Object/CB control mechanism has been enhanced.
		Intermediate/running indication (00, 11) is being signaled now after the maximum intermediate position time elapsed.
		The control order is now active for set "Control pulse length", independently from object position indication.
	Communications	Logic timer settings have been added for Modbus protocol.
		New logical node (ZMOT) for motor running hours has been added to the IEC 61850 protocol.
		VLAN functionality has been introduced.
		The GOOSE NI status is memorized during the device re-boot.
		Zigbee module (EXR) firmware upgrade function has been improved.
		The firmware services for optional 2nd Ethernet RSTP communication module with fiber optic interface have been introduced to P5F30, P5M30 and P5T30 models (slot L).
	Continuous engineering	P5-48096 The issue with resetting of operate time delay after ANSI 87L tripping has been fixed.
		P5-48103 The potential issue of watchdog de-energization after device reboot has been corrected.
		P5-48248 Missing IEC61850 logical nodes with VPP/VPPy voltage mode selected have been added.
		P5-48192 The issue of displaying wrong frequency difference value in Synch Check protection (ANSI 25) has been fixed.
		P5-47626 The offline template issue of 'CB failure x' value missing in block matrix has been fixed.
		P5-32016 The parameter "Max length" in disturbance

		recorder has been removed.
		P5-30703 The setting of “OK pulse length” in Sync Check protection (ANSI 25) has been removed.
		P5-47591 The setting change event report has been improved.
		P5-48287 The communication link status alarm issue when the CLIO module is frozen has been fixed.
		P5-48271 The issue of IEC 61850 communication broken when writing the intgPd parameter has been fixed.
		P5-48251 The issue of no clearing of disturbance record files in backup memory restore process has been fixed.
		Other minor enhancements and bug-fixes have been introduced in purpose of improving the product quality.

4. Cybersecurity

The following security vulnerability has been addressed in this release:

- CVE-2024-7322
- CVE-1999-0524
- CVE-1999-0511
- CVE-2025-5296
- CVE-2025-6021

5. Associated assets

Protection Relay User Manual	Communications User Manual	
P5/EN M/02-503A 01/2026 P5/ANSI M/02-503A 01/2026	P5/EN M/02-503A 01/2026 P5/ANSI M/02-503A 01/2026	
eSetup Easergy Pro software	CET850 IEC61850 configuration software	Easergy Studio software
Version V4.11.0 or higher	Version V4.17.0 or higher	Version V9.3.10 or higher

6. Offer structure.

This release introduces new hardware configuration options to the offer:

New option to combine P5L30 and LPITs	P5L30-xxxx-lxxxx-Bxxx	GCR_P5L30	Protection relay P5L30 with LPITs
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7. Settings compatibility information

OK – previous setting file can be directly reused, maybe with some minor adjustment.

Conversion – previous setting file needs to be converted with Easergy Pro.

NOK – no compatibility, file must be recreated from scratch.

 - no use scenario

EPZ configuration file backward compatibility											
Target → Original	V01.300	V01.301	V01.302	V01.303	V01.400	V01.401	V01.402	V01.500	V02.501	V02.502	V02.503
V01.300.xxx	OK	OK ⁽¹⁾	OK ⁽¹⁾	OK ^{(1) (2)}	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.301.xxx		OK	OK	OK ⁽²⁾	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.302.xxx			OK	OK ⁽²⁾	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.303.xxx				OK	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.400.xxx					OK	OK ⁽³⁾	OK ⁽⁴⁾	Conv.	Conv.	Conv.	Conv.
V01.401.xxx						OK	OK ⁽⁴⁾	Conv.	Conv.	Conv.	Conv.
V01.402.xxx							OK	Conv.	Conv.	Conv.	Conv.
V01.500.xxx								OK	Conv.	Conv.	Conv.
V02.501.xxx									OK	Conv.	Conv.
V02.502.xxx										OK	Conv.
V02.503.xxx											OK

⁽¹⁾ Legacy Modbus mapping needs to be enabled between V01.300.xxx and later versions.

⁽²⁾ “GOOSE configuration” and “IEC 61850 measurement config” parameters removed from the epz setting file in V01.303.xxx. From V01.400.xxx equivalent settings are in the CID configuration file.

⁽³⁾ The subnet mask setting for HSR/PRP mode must be added manually.

⁽⁴⁾ Protections ANSI 27D, 25, 21FL, 47, 37, 21YN, 32N must be corrected manually due to setting units evolution from % to pu (ex. 5% replaced by 0.05 pu).

CID configuration file backward compatibility											
Target → Original	V01.300	V01.301	V01.302	V01.303	V01.400	V01.401	V01.402	V01.500	V02.501	V02.502	V02.503
V01.300.xxx	OK	OK	OK	NOK	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.301.xxx		OK	OK	NOK	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.302.xxx			OK	NOK	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.303.xxx				OK	NOK	NOK	NOK	NOK	NOK	NOK	NOK
V01.400.xxx					OK	NOK	NOK	NOK	NOK	NOK	NOK
V01.401.xxx						OK	NOK	NOK	NOK	NOK	NOK
V01.402.xxx							OK	NOK	NOK	NOK	NOK
V01.500.xxx								OK	NOK	NOK	NOK
V02.501.xxx									OK	NOK	NOK
V02.502.xxx										OK	OK
V02.503.xxx											OK

Important notice: Handling of firmware upgrade has been enhanced from eSetup Easergy Pro v4.11.0 and PowerLogic P5 firmware V02.503.101. Depending on the initial and target firmware versions, settings, configurations and language files can be retained, provided this option is enabled by the engineer. If this feature is not enabled or not supported for the intended firmware up- or downgrade, all settings are reset to their default values. After the reset, setting files can be reloaded to the device under condition of the compatibility information listed above. The language files must be uploaded again accordingly. In all cases, the correctness of settings must be verified after the firmware change.

The firmware upgrade procedure must be carried out in accordance with all safety instructions provided in the User Guide (Maintenance chapter). We recommend reviewing the conditions and guidelines for this functionality in the User Guide.

We, SCHNEIDER ELECTRIC, being a leading company in energy management, protection, and control solutions, are continuously investing in innovation, providing the latest technologies to support our customers to face future challenges with the best-in-class solutions. The firmware upgrade is a core of our life cycle management and ensures maximized user's experience of our products. We recommend keeping on upgrading the firmware during periodical maintenance time windows. The guidelines on firmware upgrade procedure can be found in User Guide / Maintenance / Firmware upgrade chapter. We encourage to contact our Customer Care Center in case of any questions.