



PowerLogic™ PM5560, PM5563 , PM5580 Firmware Revision History

Model	Release Version	Date	Reset System	Download System	Operating System	Language File	FPGA System	Comms System	DLF3000 File Name	Upgrade File Name
PM5560	4.4.5	25-Feb-2025	4.4.5	N/A	4.4.5	3.00.1	2.0.3	4.4.5	N/A	PM5560_PM5580_PM5563_V4.4.5_Release
PM5560	4.4.1	14-Oct-2024	4.4.1	N/A	4.4.1	3.00.1	2.0.3	4.4.1	N/A	PM5560_PM5580_PM5563_V4.4.1_Release
PM5560	4.4.0	25-Sep-2024	4.4.0	N/A	4.4.0	3.00.1	2.0.3	4.4.0	N/A	PM5560_PM5580_PM5563_Release_v4.4.0_Release
PM5560	4.3.4	6-June-2024	4.3.4	N/A	4.3.4	3.00.1	2.0.3	4.3.4	N/A	PM5560-5563-5580_Release_v434_UTv3.60_Release
PM5560	4.3.2	22-Dec-2023	4.3.2	N/A	4.3.2	3.0.1	2.0.3	4.3.2	N/A	PM5560-5563-5580_Release_v432_UTv3.6.0_Release
PM5560	4.2.5	10-Aug-2023	4.2.5	N/A	4.2.5	3.00.1	2.0.3	4.2.5	N/A	PM5560-5563-5580_Release_v425_UTv3.10_Release
PM5560	4.2.1	25-Jan-2023	4.2.1	N/A	4.2.1	3.0.1	2.0.3	4.2.1	N/A	PM5560_PM5563_PM5580_V4.2.1_UTv3.10_Release
PM5560	4.1.8	25-Apr-2022	4.1.8	N/A	4.1.8	3.0.1	2.0.3	4.1.8	N/A	PM5560_PM5563_PM5580_V4.1.8_UTv3.4_Release
PM5560	4.1.3	28-Sep-2021	4.1.3	N/A	4.1.3	3.0.1	2.0.3	4.1.3	N/A	PM5560_PM5563_PM5580_V4.1.3_UTv2.5_Release
PM5560	2.8.3	12-Oct-2020	2.8.3	N/A	2.8.3	2.18.0	2.0.3	2.8.3	N/A	PM5560_PM5563_V2.8.3_Release
PM5560	2.7.8	25-Dec-2019	2.7.8	N/A	2.7.8	2.18.0	2.0.3	2.7.8	N/A	PM5560_PM5563_V2.7.8_Release
PM5560	2.7.7	20-Dec-2019	2.7.7	N/A	2.7.7	2.17.0	2.0.3	2.7.7	N/A	PM5560_PM5563_V2.7.7_Release
PM5560	2.7.6	25-Sep-2019	2.7.6	N/A	2.7.6	2.16.0	2.0.3	2.7.6	N/A	PM5560_PM5563_V2.7.6_Release
PM5560	2.7.4	20-Nov-2018	2.7.4	N/A	2.7.4	2.14.0	2.0.3	2.7.4	N/A	PM5560_PM5563_V2.7.4_Release
PM5560	2.5.4	25-Jun-2018	2.5.4	N/A	2.5.4	2.10.0	2.0.3	2.5.4	N/A	PM5560_PM5563_V2.5.4_Release
PM5560	2.5.3	03/12/2018	2.5.3	N/A	2.5.3	2.10.0	2.0.3	2.5.3	N/A	PM5560_PM5563_V2.5.3_Release



PM5560	2.5.2	01/31/2018	2.5.2	N/A	2.5.2	2.10.0	2.0.3	2.5.2	N/A	PM5560_PM5563_V2.5.2_Release
PM5560	2.4.3	10/16/2017	2.4.3	N/A	2.4.3	2.9.0	2.0.3	2.4.3	N/A	PM5560_PM5562_V2.4.3.zip
PM5560	2.4.2	06/26/2017	2.4.2	N/A	2.4.2	2.8.0	2.0.3	2.4.2	N/A	PM5560_PM5562_V2.4.2.zip
PM5560	2.3.0	3/14/2016	2.3.0	N/A	2.3.0	2.6.0	2.0.3	2.3.0	N/A	PM5560_PM5563_v2.3.0.zip
PM5560	2.2.1	10/27/2015	2.2.1	N/A	2.2.1	2.1.0	2.0.3	2.2.1	N/A	PM5560_PM5563_v2.2.1.zip
PM5560	2.2.0	10/06/2015	2.2.0	N/A	2.2.0	2.1.0	2.0.3	2.2.0	N/A	PM5560_PM5563_v2.2.0.zip
PM5560	2.1.0	05/05/2015	2.1.0	N/A	2.1.0	2.0.1	2.0.3	2.1.0	N/A	PM5560_PM5563_v2.1.0.zip
PM5560	2.0.1	03/03/2015	2.0.1	N/A	2.0.1	2.0.1	2.0.3	2.0.1	N/A	PM5560_PM5563_v2.0.1.zip
PM5560	01.01.0000	10/06/2014	01.01.0000	N/A	01.01.0000	N/A	N/A	N/A	PM5560_ver_1_01_0000.fw	N/A
PM5560	01.00.0004	07/03/2014	01.00.0004	N/A	01.00.0004	N/A	N/A	N/A	PM5560_63_ver_1_00_0004.fw	N/A
PM5560	01.00.0003	02/05/2014	01.00.0000	N/A	01.00.0003	N/A	N/A	N/A	PM5560_63_ver_1_00_0003.fw	N/A
PM5560	01.00.0002	08/21/2013	01.00.0000	N/A	01.00.0002	N/A	N/A	N/A	PM5560_63_ver1002.fw	N/A



Summary of Firmware Releases (Public) for PowerLogic™ PM5560, PM5563, PM5580

Model	Version Number	Changes Since Version:	Description of Changes
PM5560	4.4.5	4.4.1	Official public release candidate for 4.4.1 with OS Checksum 0xD644 Fixed Defect: - <ul style="list-style-type: none">• Meter IP Address Fallback to 255.255.255.255 issue• Meter stuck in “waiting for host” during upgrade• Device log export feature enabled• Data log issue in the webpage
PM5560	4.4.1	4.4.0	Official public release candidate for 4.4.1 with OS Checksum 0x4CD4 Fixed Defect: - <ul style="list-style-type: none">• Phase reverse Alarm malfunctioning issue fixed.
PM5560	4.4.0	4.3.4	Official public release candidate for 4.4.0 with OS Checksum 0x505B Fixed Defect: - <ul style="list-style-type: none">• DNP3 network disconnection issue fixed.• PF roundoff to 1 issue is fixed.
PM5560	4.3.4	4.3.2	Official public release candidate for 4.3.4 with OS Checksum 0xDEAE Fixed Defect: - <ul style="list-style-type: none">• Blank display and scattered display issue fixed.
PM5560/	4.3.2	4.2.5	Official public release candidate for 4.3.2 with OS Checksum 0xFC60 Neew Feature <ul style="list-style-type: none">• Stack upgraded from Monaco to mbedtls• Cyber security improvements done• Warning banner for webpage as configurable• DHCP input parameter is configurable to MACID or DeviceID Fixed Defect: - <ul style="list-style-type: none">• Cyber security issues fixed• EIP Reset service is disabled• Default LCD type is changed to TIANMA



PM5560	4.2.5	4.2.1	Official public release candidate for 4.2.5 with OS Checksum 0x343E New Feature <ul style="list-style-type: none">Configurable Pulse width for Digital outputs Fixed Defect: - <ul style="list-style-type: none">Phase loss alarm malfunctioning issue fixedHTTPS disable/Enable option providedUser Account management issue fixed
PM5560	4.2.1	4.1.8	Fixed Defect <ul style="list-style-type: none">EIP implicit message connectivity issue fixedBlank display for RMS values for 1 to 2 seconds when there is a change in value from 99 to 100 or 999 to 1000 in LCD display
PM5560	4.1.8	4.1.3	New Feature <ul style="list-style-type: none">Logging of firmware upgrade details and count are increased from 10 to 25.
PM5560	4.1.3	2.8.3	NOTE: 1. Once upgraded to version 4.x.x from 2.x.x, you cannot downgrade to 2.x.x 2. For upgrading to 4.x.x first time from 2.x.x, you must use PM55xx Firmware Upgrade Tool software 3. After upgrading to 4.x.x first time from 2.x.x, the default password (to set new password) for Administrator account is the meter’s MAC address in UPPER case (For example, for a meter with MAC address 00:80:6B:4C:30:AD, the default password would be 00806B4C30AD) New Feature <ul style="list-style-type: none">HTTP replaced with more secure HTTPS protocol and TLS 1.2 transport layer securityNew webpage design and layoutProduct Configuration via webpages restoredFuture firmware upload now via secure webpage over HTTPS (not via FTP) for better user experienceFirmware binaries now packaged in single. SEDP format fileEncrypted firmware binaries to prevent malicious operation with FWDigitally signed firmware to ensure authenticity of firmware before upgrade and during boot upImproved Role based Access (RBAC) for better user management for the users defining and controlling privileges and rightsImproved Password management: Complex Password mandate -and- no algorithmically generated or hard-coded passwords - helps prevent unauthorized access to productAccount lockout policy for webpage (after consecutive failed attempts of login) - helps prevent unauthorized access to productSecure FTP introduced (FTP is disabled by default), FTP automatic disable timeout is removed Fixed Defect <ul style="list-style-type: none">DHCP IP acquisition issue on v2.8.3 - FixedImproved handling of Digital Output statusImproved handling of “TCP Keepalive” and “Modbus TCP/IP Server Connection Idle Time” configurations
PM5560	2.8.3	2.7.8	New Feature <ul style="list-style-type: none">OS Firmware checksum readable over HMI, and via Modbus Register 20533 Fixed Defect <ul style="list-style-type: none">Affecting zero-day vulnerabilities from "Ripple20" in low-level TCP/IP software library developed by Treck, Inc.- FixedBBMD IP 0.0.0.0 Not accepted in commands even BBMD disabled – FixedHTTP port number value is reset to default value after changed using Modbus commands - FixedBACnet setting not working when the deice ID is 0 - Fixed



PM5560	2.7.8	2.7.7	New Feature <ul style="list-style-type: none">To comply with California 2020 and Schneider Electric Cyber Security guidelines, features over HTTP and FTP have been temporarily limited:<ul style="list-style-type: none">Product configuration through HTTP removedNeed to enter username and password for logging into HTTP removedAdded automatic timeout for FTP service – if FTP is enabled and has been idle for 20 minutes, FTP will be automatically disabledAdded Enable/Disable toggle on meter display HMI for FTPApplicable for PM5563 – Added internal functions that enable configuration of Ethernet communication and PM5RD hardware version selection using ION Setup
PM5560	2.7.7	2.7.6	Fixed Defect <ul style="list-style-type: none">Applicable for PM5563 – Improved compatibility with PM5RD HW version Ax (x = number)
PM5560	2.7.6	2.7.4	New Feature <ul style="list-style-type: none">Option to select Average V-LL to be displayed on Summary Screen.Prompt user on webpage to update password from default to complex value for added securityAdded internal ID for new model PM5580 Fixed Defect <ul style="list-style-type: none">TCP ports unreachable after subjected to malformed Modbus requests – ImprovedInformation disclosure in FTP Server – PreventedInput metering accumulation backup frequency increased to one second
PM5560	2.7.4	2.5.4	New Features <ul style="list-style-type: none">Support for PM5RD Display type selection in the webpages (Hardware versions Ax / Bx)Implemented DNP3 Protocol support over EthernetAdded options in LCD HMI and Web Page to Enable/Disable the DNP3 over Ethernet feature Fixed Defect <ul style="list-style-type: none">LCD HMI Russian Language strings fixed
PM5560	2.5.4	2.5.3	Fixed Defect <ul style="list-style-type: none">Fixed the energy data retention issue for energy data accumulated within 1 minute of an auxiliary power cycleFixed issue of multi-tariff not working while being set to time of day from HMI • PM55xx Cyber-security improvement
PM5560	2.5.3	2.5.2	Fixed Defect <ul style="list-style-type: none">Ethernet/IP changes in Identity object changed the product name to choose unique names for each modelEthernet/IP changes in link object. Changed the Attribute 11, to remove speed duplex pairs from Interface capability
PM5560	2.5.2	2.4.3	New Features <ul style="list-style-type: none">Added Ethernet/IP protocol support.Option in both webpages and HMI (Front Display) to Disable/Enable Ethernet/IP feature. Fixed Defect <ul style="list-style-type: none">Made heap management routines thread-safe to avoid potential heap corruption issues in firmware.Made changes to trigger watchdog timer in cases of Fatal errors
PM5560	2.4.3	2.4.2	New Features <ul style="list-style-type: none">Option in both webpages and HMI (Front Display) to Disable/Enable DPWS feature Fixed Defect <ul style="list-style-type: none">None



PM5560	2.4.2	2.3.0	New Features <ul style="list-style-type: none">DPWS feature: Allows self-discovery of the meter when connected in Local Area NetworkAdded MAC-ID display in HMI. Fixed Defect <ul style="list-style-type: none">Corrected issue Power Factor not displaying *** when only auxiliary is given.Corrected issue Load Timer not working.Watchdog Timer enabled in the PM556xWebpage new user password not stored at first time: Fixed
PM5560	2.3.0	2.2.0	New Features <ul style="list-style-type: none">Added BACnet/IP Functionality to the PM55xx meters. Fixed Defect <ul style="list-style-type: none">Corrected issue where the QR Code PF Log 3084 urls were incomplete, the urls now functions properly.Corrected issue where the QR Code KW Log register 3204 where the log contained one too many entries, the log now contains 75 entries.
PM5560	2.2.0	2.1.0	QR Code Functionality <ul style="list-style-type: none">The meter now supports Enabling / Disabling of the QR code on the screen via the HMI or Modbus interface.Four demand registers were added to the Data Logs which can be viewed on the Web Page

PM5560	02.01.0000	02.00.0001	New Features <ul style="list-style-type: none">Power Factor support<ul style="list-style-type: none">Four (4) new registers were added (two Float32 and two INT16) to provide Power Factor in IEC and Lag/Lead format in the range of +1 to -1. Fixed Defects <ul style="list-style-type: none">1152 - Fixed WebPage: Password hash is only SHA-256 without *salt (SALT has been added).1290 - Digital input transitions now detected if the device powers up while input transitions are occurring.1318 - Fixed Maintenance Log: Web Page rollover issue.1526 - The PM5560 will “no longer” show a kW value when voltage and current values are zero, it will show a zero.1540 - MID meters running the new upgrade process will no longer upgrade web pages, and will present an appropriate error message instead.1554 - Corrected Semaphore Lost : In regards to Email on Alarm.1558 - Simultaneous reads/writes from external flash will no longer corrupt data.1564 - Fixed Datalog not wrapping around properly in circular mode.1557 - Removed entry showing the number of “Active Connections” from the Web Page.1569 - Corrected issue where the user is not notified of an upgrade failure.1578 - Will no longer get multiple entries in the maintenance log for a single time sync event.
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PM5560	02.00.0001	01.01.0000	<p>New Features</p> <ul style="list-style-type: none">• Ethernet gateway functionality.<ul style="list-style-type: none">- With minimal configuration, the meter can act as an Ethernet gateway. This means that a Modbus master device can communicate using Ethernet through the meter to serial devices connected to the meter's serial port. A Modbus TCP request is sent over the Ethernet to the gateway meter. The gateway meter uses Modbus RTU to forward the request to the downstreamdevice addressed in the packet. When the downstream device responds, the gateway meter forwards the response back to the master.• Simple Network Management Protocol (SNMP) support<ul style="list-style-type: none">- The meter can now communicate using SNMP, including SNMP traps. The meter comes preconfigured to communicate a wide range of power measurement parameters via SNMP after youenable SNMP on the meter and load the meter's MIB file into your network management station.• TCP/IP filtering<ul style="list-style-type: none">- The meter now has Modbus TCP/IP filtering. This feature lets you specify the Modbus rights for up to 10 unique IP addresses, plus the Modbus access rights for anonymous IP addresses.• Updated PM5563 with optional remote display<ul style="list-style-type: none">- The PM5563 DIN-mount meter has been updated to support an optional remote display. Using the remote display provides the PM5563 with the same viewing and configuration functionality as meter models with an integrated display, allowing you to view data from and configure the PM5563 from a more accessible location.- NOTE: **You can only use the remote display with PM5563 meters that have the dedicated RJ-25 connection.• Email on alarm<ul style="list-style-type: none">- The meter can now send an email or email-to-text message to up to three addresses when alarm conditions are detected. You can configure which alarm types and priorities trigger amessage.- The message contains information about the alarm and the meter that triggered the alarm
			<p>Fixed Defects</p> <ul style="list-style-type: none">• 1215 – Command 4002 resets meter when issued.• 1231 – DHCP device name was being truncated 1 character short causing DHCP IP address to randomly change.• 1254 – Etherbrick(IPCL) registers were unprotected from write access by customer.• 1280 – VLL Harmonics are improperly deadbanded when the total harmonic content was less than about 5V.• 1299 – The HTTP enable/disable screen always showed “Disabled” regardless of the current value.• 1416 – Meter displayed all 255(s) for IP address because of excessive modbus traffic.• 1452 – Modbus connection dropped when float32 value written to registers 64000 and above.• 1501 – Meter will start in a High state when switched to Energy mode for the digital output.• 1517 – Command 1012 returning msec instead of seconds.• 1521 – Wrong IP address was reported in QR code.• 1522 – Missing voltage values in the QR code for datalog.• 1530 – When attempting meter upgrade, the user can't delete the App2.out file if accidentally copied to incorrect folder.• 1561 – Meter acquiring new DHCP address on power cycle.• 1564 – Data log on web page was not always wrapping around properly.• 1571 – DHCP device name was sometimes incorrect causing DHCP IP address to randomly change. <p>Enhancements</p> <ul style="list-style-type: none">• New firmware upgrade method.<ul style="list-style-type: none">- There is a new method for upgrading the firmware on your meter and its Ethernet communications system. The new method simply uses FTP to copy files from your computer to the meter'sFTP server. The FTP server is accessed using the same login credentials as the meter webpages.- NOTE: This method replaces upgrading using DLF3000 software. After you upgrade your meter to 2.0.1 using the FTP method, you can no longer use DLF to perform meter upgrades.• Redesigned and updated webpages<ul style="list-style-type: none">- The meter's default webpages are updated to include more options to configure the meter, including many of the new features.• Improved serial and TCP/IP communications.• Faster Modbus TCP/IP response times.• Faster web pages and better navigation.• Improved communications card general performance.• Enhanced DHCP performance on communications card.• Added additional communications card security.• Soft Reset Command resets the communications card as well as meter card.



PM5560	01.01.0000	01.00.0004	<p>New Features</p> <ul style="list-style-type: none">Added Firmware to support the addition of a new LCD Display (Tianma Display)Added QR Code feature to the PM5560 Product LineAdded Float32 Registers to the PM5560 to support both INT64 and Float32 Registers. <p>Defects fixed</p> <ul style="list-style-type: none">1459 - Fix issue where on power, the Input Metering accumulation channels 2-4 were not being stored in NVram, only channel 1 was saved.1462 - Fix issue where on power, Input Metering registers 3574, 3578 and 3582 are all reset to ZERO while register 3570 holds the last value. Now with the fix all the registers would hold their values they contained before the power cycle. <p>Enhancements</p> <ul style="list-style-type: none">The meter now supports Float32 energy registers in conjunction with INT64 registers.The meter now supports two types of LCD displaysAdded QR Code functionality to the meter
PM5560	01.00.0003	01.00.0002	<p>Defects fixed</p> <ul style="list-style-type: none">1195 – Under voltage L-N alarm now has correct source1196 – Over Current Neut. and GND now log correct number of secondaries1201 – NV Ram no longer corrupted during power loss1203 – Custom alarms can now be ack. via command interface
			<ul style="list-style-type: none">1204 – Custom alarms with data type INT64 are now handled correctly1206 – Data log now reports the correct timestamp when multiple records are read1210 – Fixed energy pulse output inaccuracies at low pulse rates. <p>Enhancements</p> <ul style="list-style-type: none">The system now correctly restores from backups in NOR flash memory, if corrupted data is detected in non-volatile memory.Extra phase information in OVUB, OVLL, OVTHD, UVLL and UVPHL alarms has been removed.Fixed demand reset in rev sec mode checking of password.Language version now shows on HMI before a language is selected.
PM5560	01.00.0002	None	First Firmware release

NOTES:

Firmware version numbering system:xx.yy.tttt

Per CR34 xx = Major (Hardware changes, etc.)yy = Minor (feature add, etc.) tttt = Quality (bug fixes, etc.)