



PowerLogic™ PM5561 Firmware Revision History

Summary of Firmware Releases (Public) for PowerLogic™ PM5561

Release Version	Date	Reset System	Download System	Operating System	Language File	FPGASystem	Comms System	DLF3000 File Name	Upgrade File Name
12.5.0	23-APR-2026	12.5.0	NA	12.5.0	3.1.0	2.0.3	12.5.0	NA. through webpage firmware can be upgraded	PM5561_upgrade_12.5.0_Release
12.4.1	24-NOV-2025	12.4.1	NA	12.4.1	3.0.1	2.0.3	12.4.1	NA. through webpage firmware can be upgraded	PM5561_upgrade_12.4.1_Release
12.3.0	25-SEP-2024	12.3.0	NA	12.3.0	3.0.1	2.0.3	12.3.0	NA. through webpage firmware can be upgraded	PM5561_upgrade_12.3.0_Release
12.2.0	23-MAY-2024	12.2.0	NA	12.2.0	3.0.1	2.0.3	12.2.0	NA. through webpage firmware can be upgraded	PM5561_upgrade_12.2.0_Release
12.1.0	15-DEC-2023	12.1.0	NA	12.1.0	3.0.1	2.0.3	12.1.0	NA. through webpage firmware can be upgraded	PM5561_upgrade_12.1.0_Release
12.0.4	25-APR-2022	12.0.4	NA	12.0.4	3.0.1	2.0.3	12.0.4	NA. Supported via FTP download	PM5561_V12.0.4_UTv3.4_Release
10.8.2	01-DEC-2020	10.8.2	NA	10.8.2	2.19.0	2.0.3	10.8.2	NA. Supported via FTP download	PM5561_V10.8.2_Release
10.7.0003	12-OCT-2020	10.7.0003	NA	10.7.0003	2.18.0	2.0.3	10.7.003	NA. Supported via FTP download	PM5561_upgrade_10.7.3_Release
10.7.2	11-OCT-2020	10.7.2	NA	10.7.2	---	2.0.3	10.7.2	NA. Supported via FTP download	PM5561_V10.7.2_Release
10.7.0001	13-MAR-2019	10.07.0001	NA	10.07.0001	---	2.0.3	10.07.0001	NA. Supported via FTP download	PM5561_V10.7.1_Release
10.6.0004	05-JUN-2018	10.06.0004	NA	10.06.0004	---	2.0.3	10.06.0004	NA. Supported via FTP download	PM5561_V10.6.4_Release
10.6.0003	14-MAR-2018	10.06.0003	NA	10.06.0003	---	2.0.3	10.06.0003	NA. Supported via FTP download	PM5561_V10.6.3_Release
10.06.0002	31-JAN-228	10.06.0002	NA	10.06.0002	---	2.0.3	10.06.0002	NA. Supported via FTP download	PM5561_V10.6.2_Release
10.06.0001	08-JAN-2018	10.06.0001	NA	10.06.0001	---	2.0.3	10.06.0001	NA. Supported via FTP download	PM5561_V10.6.1_Release
10.06.0000	23-NOV-2017	10.06.0000	NA	10.06.0000	---	2.0.3	10.06.0000	NA. Supported via FTP download	PM5561_V10.6.0_Release
10.05.0000	04-OCT-2016	10.05.0000	NA	10.05.0000	---	2.0.3	10.05.0000	None. Cannot update MID meters	NA
10.04.0000	04-MAR-/2016	10.04.0000	NA	10.04.0000	---	2.0.3	10.04.0000	None. Cannot update MID meters	NA
10.03.0001	27-OCT-2015	10.03.0000	NA	10.03.0001	---	2.0.3	10.03.0001	None. Cannot update MID meters	NA
10.03.0000	03-OCT-2015	01.01.0	NA	10.03.0000	---	2.0.3	10.03.0000	None. Cannot update MID meters	NA
10.02.0000	02-OCT-2015	01.01.0	NA	10.02.0000	---	2.0.3	10.02.0000	None. Cannot update MID meters	NA
10.01.0000	03-DEC-2014	01.01.0	NA	10.01.0000	---	2.0.3	10.01.0000	None. Cannot update MID meters	NA
10.00.0000	21-AUG-2013	01.00.0	NA	10.00.0000	---	2.0.3	10.00.0000	None. Cannot update MID meters	NA



Version Number	Changes Since Version:	Description of Changes
12.5.0	12.4.1	<b>Official public release for 12.5.0 with OS Checksum 0x671C</b> <b>New feature: -</b> <ul style="list-style-type: none"><li>Addressing Modes: Added support for IPv4-only, IPv4/IPv6 dual-stack, and IPv6-only operation with complete IPv4 disable.</li><li>IPv6 Compatibility: All existing meter features now operate over IPv6.</li><li>Supports protocols with IPv6 for Modbus TCP, SNMP, FTPS, HTTPS, DPWS, SNTP, and SMTP.</li><li>IPv6 Address Scope: Supported IPv6 Link-Local and Global addressing modes.</li><li>Device log export functionality available over IPv6.</li></ul> <b>HMI enhancements: -</b> <ul style="list-style-type: none"><li>Introduced timed display refresh to maintain display integrity and operational reliability.</li></ul> <b>Fixed Defect: -</b> <ul style="list-style-type: none"><li>Fix for Extra Byte Issue in Modbus Exception Responses. Resolved an issue where an extra byte was included in Modbus exception response packets due to incorrect message parsing.</li></ul>
12.4.1	12.3.0	<b>Official public release for 12.4.1 with OS Checksum 0xEE6A</b> <ul style="list-style-type: none"><li>Modified Chip Select (CS) pin behaviour for display interface: Default CS state set to high (1). CS is driven low (0) only during data transmission.</li><li>During power up display RST pin signals timings updated</li><li>Clock frequency of display SPI is updated to 5.25MHz</li></ul> <b>Fixed Defect: -</b> <ul style="list-style-type: none"><li>Resolved issue where the meter IP address incorrectly fell to 255.255.255.255.</li><li>Fixed problem causing the meter to remain stuck in “waiting for host” during firmware upgrade.</li><li>Enabled device log export functionality.</li><li>Fixed data log display issues on the webpage.</li></ul>
12.3.0	12.2.0	<b>Official public release for 12.3.0 with OS Checksum 0x505B</b>  <b>Fixed Defect: -</b> <ul style="list-style-type: none"><li>DNP3 network disconnection issue fixed.</li><li>Blank display and scattered display issue fixed.</li></ul>
12.2.0	12.1.0	<b>Official public release for V12.2.0 with OS Checksum 0xE591</b>  <b>Fixed Defect: -</b> <ul style="list-style-type: none"><li>PF round off to 1 when PF is more than +/-0.9965 and setting KVAR to zero is removed. Only calculated value of KVAR and PF are available</li></ul>

12.1.0	12.0.4	<p><b>New Feature</b></p> <ul style="list-style-type: none"><li>Stack upgraded from Monaco to mbedtls</li><li>Weak cipher suites (CBC mode) are disabled</li></ul> <p>Warning banner for webpage as configurable</p> <ul style="list-style-type: none"><li>CSRF token implemented for webpage service</li><li>DHCP input parameter is configurable to MACID or DeviceID</li><li>Upgraded the web client jquery to V3.6.4</li><li>Configurable Pulse width for Digital outputs</li></ul> <p><b>Fixed Defect:</b></p> <ul style="list-style-type: none"><li>Ping loss issue fixed</li><li>Unencrypted Web Pages: The ability to use an HTTP connection exists bug fixed</li><li>EIP Reset service is disabled</li><li>Phase loss alarm malfunctioning issue fixed</li><li>HTTPS disable/Enable option provided</li><li>User Account management issue fixed</li><li>EIP implicit message connectivity issue fixed</li><li>Blank 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</li></ul>
12.0.4	10.08.2	<p>NOTE:</p> <ol style="list-style-type: none"><li>Once upgraded to version 12.x.x from 10.x.x, you cannot downgrade to 10.x.x</li><li>For upgrading to 12.x.x first time from 10.x.x, you must use PM55xx Firmware Upgrade Tool software in the upgrade package</li><li>After upgrading to 12.x.x first time from 10.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)</li></ol> <p><b>New Feature</b></p> <ul style="list-style-type: none"><li>HTTP replaced with more secure HTTPS protocol and TLS 1.2 transport layer security</li><li>New webpage design and layout</li><li>Product Configuration via webpages restored</li><li>Future firmware upload now via secure webpage over HTTPS (not via FTP) for better user experience</li><li>Firmware binaries now packaged in single .SEDP format file</li><li>Encrypted firmware binaries to prevent malicious operation with FW</li><li>Digitally signed firmware to ensure authenticity of firmware before upgrade and during boot up</li><li>Improved Role based Access (RBAC) for better user management for the users defining and controlling privileges and rights</li><li>Improved Password management: Complex Password mandate -and- no algorithmically generated or hard-coded passwords - helps prevent unauthorized access to product <input type="checkbox"/> Account lockout policy for webpage (after consecutive failed attempts of login) - helps prevent unauthorized access to product <input type="checkbox"/> Secure FTP introduced (FTP is disabled by default), FTP automatic disable timeout is removed</li><li>Logging of firmware upgrade details and count are increased from 10 to 25.</li></ul> <p><b>Fixed Defect</b></p> <ul style="list-style-type: none"><li>Improved handling of "TCP Keepalive" and "Modbus TCP/IP Server Connection Idle Time" configurations</li></ul>
10.08.2	10.7.3	<p><b>New Feature</b></p> <ul style="list-style-type: none"><li>Energy Overflow Scaling feature added</li></ul> <p><b>Fixed Defect</b></p> <ul style="list-style-type: none"><li>At UPF VAR sometimes shows non-zero (higher) value when CT / PT ratio is High – Improved such that VAR reading will be more accurate in this condition</li></ul>



10.7.3	10.7.1	<p>New Feature:</p> <ul style="list-style-type: none"><li>Firmware checksum in HMI (MB register number 20533)</li></ul> <p>Fixed Defect:</p> <ul style="list-style-type: none"><li>Affecting zero-day vulnerabilities from "Ripple20" in low-level TCP/IP software library developed by Treck, Inc.- Fixed</li><li>HTTP port number value is reset to default value after changed using MB commands. ( via ION setup )</li><li>BACnet setting not working when the device ID is 0</li><li>BBMD IP 0.0.0.0 Not accepted in commands even BBMD disabled</li></ul>
10.07.0001	10.06.0004	<p>New Feature</p> <ul style="list-style-type: none"><li>Implemented the DNP3 Over Ethernet</li><li>HMI Language file change for Russian Language</li><li>Input metering accumulation backup frequency increased to one second</li><li>Added Model ID for PM5580 in HMI and webpages</li></ul>
10.06.0004	10.06.0003	<p>Fixed Defect</p> <ul style="list-style-type: none"><li>Fixed the energy data retention issue for energy data accumulated within 1 minute of an auxiliary power cycle</li></ul>
10.06.0003	10.06.0002	<p>Fixed Defect</p> <ul style="list-style-type: none"><li>Changed the product name from PM55xx to actual model name (PM5560, PM5561, PM5562, PM5563) to follow ODVA standard</li><li>Fixed the Interface capability attribute value of EtherNet/IP Ethernet Link Object</li></ul>
10.06.0002	10.06.0001	<p>Fixed Defect</p> <ul style="list-style-type: none"><li>Encapsulation timeout of TCP/IP object (Ethernet/IP) is now stored in non-volatile memory.</li><li>Fixed the speed, duplex and Interface Label attributes of Ethernet Link Object in Ethernet/IP</li></ul>
10.06.0001	10.06.0000	<p>Fixed Defect</p> <ul style="list-style-type: none"><li>Corrected odometer values for Base Energy object and Electrical energy objects</li></ul>
10.06.0000	10.05.0000	<p>New Features</p> <ul style="list-style-type: none"><li>Firmware upgrade is now possible in MID meters.</li><li>Added Ethernet/IP protocol support</li><li>Option in both webpages and HMI (Front Display) to Disable/Enable Ethernet/IP feature.</li><li>Date/Time of firmware download, firmware version, communication channel and status of firmware download can now be read through Modbus registers.</li></ul> <p>Fixed Defect</p> <ul style="list-style-type: none"><li>Made heap management routines thread-safe to avoid potential heap corruption issues in firmware.</li><li>Made changes to trigger watchdog timer in cases of Fatal errors.</li></ul>



10.05.0000	10.04.0000	<div>New Features<ul style="list-style-type: none"><li>Added DPWS Functionality to the PM55xx meters.</li><li>Added MAC-ID display in HMI .</li></ul><div>Fixed Defect<ul style="list-style-type: none"><li>Watchdog Timer is now enabled in the PM556x meter (enabled to address 255 IP issue).</li><li>Webpage new user password not stored at first time : Fixed</li></ul></div></div>
10.04.0000	10.02.0000	<div>New Features<ul style="list-style-type: none"><li>Added BMS Functionality to the PM55xx meters</li></ul><div>Fixed Defect<ul style="list-style-type: none"><li>Corrected issue where the QR Code PF Log 3084 urls were incomplete, the urls now functions properly.</li><li>Corrected issue where the QR Code KW Log register 3204 where the log contained one too many entries, the log now contains 75 entries.</li></ul></div></div>
10.02.0000	10.01.0000	<div>QR Code Functionality<ul style="list-style-type: none"><li>The meter now supports Enabling / Disabling of the QR code on the screen via the HMI or Modbus interface.</li><li>Four demand registers were added to the Data Logs which can be viewed on the Web Page</li></ul></div>
10.01.0000	10.00.0000	<ul style="list-style-type: none"><li>The meter now supports two LCD displays (Varitronix and Tianma)</li><li>Added QR Code feature to the meter</li><li>Added Float32 registers in conjunction with INT64 registers    □ Input Metering bug fixes</li></ul> <div>Additional bug fixes</div>
10.00.0000	None	<ul style="list-style-type: none"><li>The system now updates RS code when updating OS code.</li><li>Improve RS-485 communications.</li><li>Enhance DLF support for daisy-chained meters.</li><li>Provide saved Subnet Mask and Gateway settings even when no Ethernet connection is established.</li><li>Provide more reliable display of power supply failure message and recovery.</li><li>Fixed issue where ftp and http settings were not always applied immediately when saved.</li><li>Fixed possible data corruption issue when saving FTP port, HTTP port, or ethernet configuration</li></ul>

Firmware version numbering system:  
xx.yy.tttt.zzzz

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