



PM5561 Firmware Revision History

Summary of Releases for PM5561 firmware

Release Version	Date	Reset System	Download System	Operating System	Language File	FPGA System	Comms System	DLF3000 File Name	Upgrade Package Name
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	1-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	01/31/2018	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	01/08/2018	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	11/23/2017	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	10/04/2016	10.05.0000	NA	10.05.0000	---	2.0.3	10.05.0000	None. Cannot update MID meters	NA
10.04.0000	03/04/2016	10.04.0000	NA	10.04.0000	---	2.0.3	10.04.0000	None. Cannot update MID meters	NA
10.03.0001	10/27/2015	10.03.0000	NA	10.03.0001	---	2.0.3	10.03.0001	None. Cannot update MID meters	NA
10.03.0000	10/3/2015	01.01.0	NA	10.03.0000	---	2.0.3	10.03.0000	None. Cannot update MID meters	NA
10.02.0000	10/06/2015	01.01.0	NA	10.02.0000	---	2.0.3	10.02.0000	None. Cannot update MID meters	NA
10.01.0000	12/3/2014	01.01.0	NA	10.01.0000	---	2.0.3	10.01.0000	None. Cannot update MID meters	NA
10.00.0000	08/21/2013	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
12.0.4	10.08.2	<p><b>NOTE:</b></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</li> <li>Account lockout policy for webpage (after consecutive failed attempts of login) - helps prevent unauthorized access to product</li> <li>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><b>New Feature:</b></p> <ul style="list-style-type: none"> <li>Firmware checksum in HMI (MB register number 20533)</li> </ul> <p><b>Fixed Defect:</b></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><b>New Feature</b></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	<b>Fixed Defect</b> <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	<b>Fixed Defect</b> <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	<b>Fixed Defect</b> <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	<b>Fixed Defect</b> <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	<b>New Features</b> <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> <b>Fixed Defect</b> <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	<b>New Features</b> <ul style="list-style-type: none"> <li>Added DPWS Functionality to the PM55xx meters.</li> <li>Added MAC-ID display in HMI .</li> </ul> <b>Fixed Defect</b> <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>
10.04.0000	10.02.0000	<b>New Features</b> <ul style="list-style-type: none"> <li>Added BMS Functionality to the PM55xx meters</li> </ul> <b>Fixed Defect</b> <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>
10.02.0000	10.01.0000	<b>QR Code Functionality</b> <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>
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</li> <li>Input Metering bug fixes</li> <li>Additional bug fixes</li> </ul>



		<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>
10.00.0000	None	<ul style="list-style-type: none"><li>• First Firmware release</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.)