



PowerLogic™ PM5570, PM5650, PM5660 & PM5760 Firmware Revision History

Summary of Firmware Releases (Public) for PowerLogic™ PM5650

Release Version	Date	Reset System	Download System	Operating System	Language File	FPGA System	Comms System	Firmware Upgrade Method	Upgrade File Name
4.10.3	May-2022	4.10.3	N/A	4.10.3	3.0.1	2.0.3	4.10.3	Firmware Upgrade Tool	PM5650_V4.10.3_UTv3.10_Release
2.11.4	Apr-2022	2.11.4	N/A	2.11.4	2.19.0	2.0.3	2.11.4	FTP	PM5650_upgrade_V2.11.4_Release
2.11.2	Oct-2020	2.11.2	N/A	2.11.2	2.18.0	2.0.3	2.11.2	FTP	PM5650_upgrade_V2.11.2_Release
2.10.1	Mar-2020	2.10.1	N/A	2.10.1	2.18.0	2.0.3	2.10.1	FTP	PM5650_upgrade_V2.10.1_Release

Version Number	Changes Since Version:	Description of Changes
4.10.3	2.11.4	<p>NOTE:</p> <ol style="list-style-type: none"> Once upgraded to version 4.10.x from 2.10.x/2.11.x, you cannot downgrade to 2.10.x/2.11.x For upgrading to 4.10.x first time from 2.10.x/2.11.x, you must use PM55xx Firmware Upgrade Tool software in the upgrade package After upgrading to 4.10.x first time from 2.10.x/2.11.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) <p>New Feature</p> <ul style="list-style-type: none"> HTTP replaced with more secure HTTPS protocol and TLS 1.2 transport layer security New webpage design and layout Product Configuration via webpages restored Future firmware upload now via secure webpage over HTTPS (not via FTP) for better user experience Firmware binaries now packaged in single .SEDP format file Encrypted firmware binaries to prevent malicious operation with FW Digitally signed firmware to ensure authenticity of firmware before upgrade and during boot up Improved Role based Access (RBAC) for better user management for the users defining and controlling privileges and rights Improved Password management: Complex Password mandate -and- no algorithmically generated or hard-coded passwords - helps prevent unauthorized access to product Account lockout policy for webpage (after consecutive failed attempts of login) - helps prevent unauthorized access to product Secure FTP introduced (FTP is disabled by default), FTP automatic disable timeout is removed Logging of firmware upgrade details and count are increased from 10 to 25. <p>Fixed Defect</p> <ul style="list-style-type: none"> Improved handling of "TCP Keepalive" and "Modbus TCP/IP Server Connection Idle Time" configurations
2.11.4	2.11.2	<p>New Feature</p> <ul style="list-style-type: none"> Added option to configure protocols via Modbus
2.11.2	2.10.1	<p>New Feature</p> <ul style="list-style-type: none"> OS Firmware checksum readable over HMI, and via Modbus Register 20533 <p>Fixed Defect</p> <ul style="list-style-type: none"> Affecting zero-day vulnerabilities from "Ripple20" in low-level TCP/IP software library developed by Treck, Inc.- Fixed BACnet setting not working when the deice ID is 0 - Fixed BBMD IP 0.0.0.0 Not accepted in commands even BBMD disabled – Fixed HTTP port number value is reset to default value after changed using Modbus commands - Fixed
2.10.1	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Initial Firmware release



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Release Version	Date	Reset System	Download System	Operating System	Language File	FPGA System	Comms System	Analog Input Measurement System	Firmware Upgrade Method	Upgrade File Name
3.1.3	Oct-2020	3.1.3	N/A	3.1.3	2.18.0	2.0.3	3.1.3	3.0.0	FTP	PM5570_Upgrade_V3.1.3_Release
3.1.0	Mar-2020	3.1.0	N/A	3.1.0	2.18.0	2.0.3	3.1.0	3.0.0	FTP	PM5570_Upgrade_V3.1.0_Release

Version Number	Changes Since Version:	Description of Changes
3.1.3	3.1.0	<div><div>New Feature</div><ul style="list-style-type: none">OS Firmware checksum readable over HMI, and via Modbus Register 20533<div>Fixed Defect</div><ul style="list-style-type: none">Affecting zero-day vulnerabilities from "Ripple20" in low-level TCP/IP software library developed by Treck, Inc.- FixedBACnet setting not working when the deice ID is 0 - 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 - Fixed</div>
3.1.0	None	<ul style="list-style-type: none">Initial Firmware release



Summary of Firmware Releases (Public) for PowerLogic™ PM5660

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3.1.3	Oct-2020	3.1.3	N/A	3.1.3	2.18.0	2.0.3	3.1.3	3.0.0	FTP	PM5660_Upgrade_V3.1.3_Release
3.1.1	Mar-2020	3.1.1	N/A	3.1.1	2.18.0	2.0.3	3.1.1	3.0.0	FTP	PM5660_Upgrade_V3.1.1_Release

Version Number	Changes Since Version:	Description of Changes
3.1.3	3.1.1	<div><div>New Feature<ul style="list-style-type: none">OS Firmware checksum readable over HMI, and via Modbus Register 20533</div><div>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.- FixedBACnet setting not working when the deice ID is 0 - 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 - Fixed</div></div>
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3.1.1	Mar-2020	3.1.1	N/A	3.1.1	2.18.0	2.0.3	3.1.1	3.0.0	FTP	PM5760_Upgrade_V3.1.1_Release

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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.)