

What's New in PM5561 Firmware Version 12.4.1

Firmware Version: 12.4.0.

Since Version: 12.1.0

Overview

The latest firmware release for PM5561 brings enhanced display performance, improved reliability, and critical bug fixes to ensure seamless operation in demanding environments. This update focuses on optimizing user experience, strengthening network stability, and enabling advanced diagnostic capabilities.

Changes

Improved Display Interface

To improve reliability in electrically noisy environments, we have optimized the handling of SPI signals for the display interface. This enhancement ensures that meter display performance remains stable even under high EMI/EMC conditions. Key details about how signals are updated.

- Optimized Chip Select (CS) Behaviour: Default CS state is now set to high (1), ensuring better signal integrity. CS is driven low (0) only during data transmission.
- Refined Power-Up Sequence: Updated timing for display RST pin signals for smoother initialization.
- Faster Display Communication: SPI clock frequency increased to 5.25 MHz, delivering quicker screen updates.

Communication improvements

This firmware version significantly improves the meter's Ethernet communication reliability. Previous issues caused by high network traffic and occasional abnormalities and failure during upgrade have been addressed. With this upgrade, the meter now delivers consistent and stable connectivity, ensuring uninterrupted performance even in demanding network environments.

Key issues resolved

- Network Stability: Resolved issue where the meter IP address incorrectly defaulted to 255.255.255.255.
- Firmware Upgrade Robustness: Fixed condition causing the meter to remain stuck in "waiting for host" during upgrades.

Better troubleshoot with device log export

The new firmware enables device log export, allowing users to quickly access detailed data. This feature helps users diagnose issues efficiently, maintain compliance records, and share logs with support teams for faster resolution

Other issues fix/improvements

- Web Interface Improvements: Corrected data log display issues for accurate monitoring.
- Network Fixes: Resolved DNP3 disconnection issues

- Power Factor Accuracy: Removed rounding PF to 1 when exceeding ± 0.9965 ; now only calculated values for KVAR and PF are shown.

Upgrade Recommendations

Before upgrading to this firmware version:

- Backup all meter data.
- Use the webpage or upgrade tool v3.8
- Refer to the User Manual for upgrade procedures and prerequisites.

More Information and Resources

Visit www.se.com to download:

- Firmware upgrade files
- Latest ION Setup and web page templates
- Technical notes and user manuals
- Installation guides and datasheets

In case of further support, please contact local Schneider Electric customer care centre

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