Release Notes for Firmware of H&H PMLA Series Electronic Loads

Contact H&H to check possibility of firmware update for your specific device. Provide serial number.

Concerning Components:

AI: Analog Interface Board
DI: Data Interface Board
UI: User Interface Board

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Firmware Release: AI1.6.0, DI1.6.1, UI1.6.0

Bugfixes / Corrected

- Fixed a bug that caused the software to crash at startup if the LSE crystal is defective.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.6.0, DI1.6.0, UI1.6.0

New Features/Added

- Initial release for UI with 4.3" touch display.
- Added functionality to distinguish between different variants Standard, LP, HP.
- Added functionality to handle various temperature sensors depending on the detail assembly.
- Added functionality for querying the CPU temperature.
- Added programmable trigger delay time to the trigger system.
- Added functionality for external voltage/level measurement.
- Added functionality for external controlled level with active power or resistance regulation mode.
- Added functionality for the calibration of the external setting level.
- Added higher baud rates for RS-232 and USB-VCP.
- Added functionality for list-synchronous data acquisition.
- Added binary block transfer for data reading from the internal memory (according to IEEE488.2 8.7.9 Definite Length Block Response Data).
- Added SyncroLink functionality for RS-232 interface.

Enhancements / Changed

- Enhanced fan control to four steps for HP variant.
- Change of valid address range to 1 - 98.
- Changed maximum number of data points from 100 to 500.
- Changed update time of LAN status task.
- Changed the activation status of the optional CAN interface to “activated” by default.

Bugfixes / Corrected

- Corrected a fan parameter name and set default values of new fan parameters.

Backwards Compatible
Hardware: No, only for production series D
Software: Yes

Firmware Release: AI1.5.1, DI1.5.1, UI1.5.0

Bugfixes / Corrected

- Corrected synchronization for watchdog, MPPT and list function responses.

Backwards Compatible
Hardware: supports version 9 of PMLA load module with PMLA memory module

Software: Yes

Firmware Release: AI1.5.1, DI1.5.0, UI1.5.0

New Features/Added

- Added MPP tracking functionality.

Backwards Compatible
Hardware: supports version 9 of PMLA load module with PMLA memory module
Software: Yes

Firmware Release: AI1.4.1, DI1.4.0, UI1.4.0

Enhancements / Changed

- Optimized firmware for PMLA load module with PMLA memory module.

Backwards Compatible
Hardware: supports version 9 of PMLA load module with PMLA memory module
Software: Yes

Firmware Release: AI1.4.0, DI1.4.0, UI1.4.0

New Features/Added

- Added functionality for getting list execution status (time and points).
- Added commands/queries for user-specific notification messages and beeps.
- Added a LIST function specific main screen.

Enhancements / Changed

- Improved notification popup window in order to stay on top on a serious warning and to display different user texts properly.
- Added possibility to update GPIB firmware in production mode and during initial operation.
- Enhanced the error queue management for local and remote errors.
- Changed time representation in DISC function specific main screen.

Bugfixes / Corrected

- Corrected order of channel-specific technical data.
- Fixed potential type errors in format strings for sscanf functions.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.3.1, DI1.3.0, UI1.3.3

New Features/Added

- Added "USB Locked" icon which is displayed if there are any open files on the USB flash drive on UI.
- Added displaying of max. resistance value in Technical Data screen.
- Added settings export to and import from an attached USB flash drive.

- Added Alarms dialog.
- Added variable calibration points for the adjustment of the device via the user interface.

Enhancements / Changed
- Improved the evaluation of the rotary encoder to avoid unwanted encoder events.
- Enhanced indication of RV and OV conditions in order to allow entering the parameter menu during pending RV or OV conditions.
- Enhanced Help Window.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.3.1, DI1.3.0, UI1.3.1

Enhancements / Changed
- Optimized adjustment procedure on AI.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.3.0, DI1.3.0, UI1.3.1

Enhancements / Changed
- Added Tips and Tricks dialog window.

Bugfixes / Corrected
- Fixed bug which prevented from switching on/off all load inputs with Shift -> Input (concerning versions 1.2.0, 1.2.1 and 1.3.0)

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.3.0, DI1.3.0, UI1.3.0

New Features/Added
- Added functionality for channel grouping (subsystem CHANnel:GROup).

Enhancements / Changed
- Added displaying of the channel names in "Channel Focus" screen.
- Added functionality for indicating HSE error.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.2.0, DI1.2.0, UI1.2.1

Enhancements / Changed

- Added the displaying of German “Umlaute” in the help texts.
- Added the displaying of channel names in "Channel Focus" screen.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.2.0, DI1.2.0, UI1.2.0

New Features/Added

- Added discharge function.
- Added triggered activation state to acquisition and list function.
- Added list function in local mode

Enhancements / Changed

- Disabled the External Settings checkbox in CP and CR function mode to avoid settings conflicts.
- Added a warning notification if the External Setting is activated and the CP or
- CR function mode should be selected to avoid settings conflicts.
- Disabled the protection edit boxes depending on the protection state and mode.
- Changed label text of right function key from "BACK" to "ESC".
- Changed label text of left function key from "SAVE" to "OK".
- Added the possibility to exit a menu or dialog window with the "Esc" key.
- Added the user interface test to the H&H service menu.
- Added message boxes for user queries.
- Added a message box before resetting the device settings, before reloading the factory settings and before the firmware update procedure.
- Changed target directory for screenshots.
- Added buzzer and encoder settings dialog.
- Improved broadcast and event evaluation.
- Added new H&H logo.
- Extended screen help texts.
- Enhanced the formatting of the measurement values in the main screens.
- Added the quick boot selection.
- Added Main screen settings dialog.
- Added Graph screen settings dialog.
- A lot of minor enhancements.

Bugfixes / Corrected

- Corrected power-on value, reading and clearing of Standard Event Status Register.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.1.1, DI1.1.0, UI1.1.1

Enhancements / Changed

- Changed functionality for initializing EEPROM with default parameter values and strings after first application startup on AI.

Bugfixes / Corrected

- Fixed bug which prevented the displaying of the Device Version in Technical Data screen

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.1.0, DI1.1.0, UI1.1.0

New Features/Added

- Added functionality for watchdog

Enhancements / Changed

- Added scroll functionality for a stopped graph display
- Added QR code to Contact dialog on UI
- Added a check for activated options at startup
- Added save, recall, power-on, reset and factory setting screens on UI
- Changed "Device Settings" menu to "System Settings" menu
- other minor enhancements

Bugfixes / Corrected

- Minor bugfixes

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.0.1, DI1.0.1, UI1.0.1

New Features/Added

- Initial Release