Release Notes for Firmware of H&H QL Series Source-Sinks

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
GI: GPIB Interface Board

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

New Features/Added

- Added functionality for a configurable delay before data acquisition during the dwell phases in LIST mode.

Bugfixes / Corrected

- Fixed an issue that could cause a system crash during cyclic operation.

Backwards Compatible
Hardware: Yes
Software: Yes

Firmware Release: AI1.4.1, DI1.4.2, UI1.4.1

New Features/Added

- Added binary block data transfer for data reading from the internal memory (according to IEEE488.2 8.7.9 Definite Length Block Response Data).

Backwards Compatible
Hardware: Yes
Software: Yes

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

New Features/Added

- Added commands, queries and monitor dialog for Scan & Temperature board.
- Added support for non-volatile diagnostic values.

Enhancements / Changed

- Changed order of displayed information in Status Overview popup dialog.

Bugfixes / Corrected

- Fixed comma error in option string generation.

Backwards Compatible
Hardware: Yes
Software: Yes

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

New Features/Added

- Added new isolated I/O port option QL07.
- Added master-slave functionality.
- Added USB info dialog.

Enhancements / Changed

- Enhanced errors dialog and UI tests.
- Enhanced user messages with information about bandwidth and damping in dynamic functions.

- Enhanced DAC initialization procedure.
- Extended memory driver.

Bugfixes / Corrected
- Fixed error in accordance with SCPI header visualization.
- Fixed bug in output mode change function.
- Corrected function execution bug in accordance with recall settings.

Backwards Compatible
Hardware: No, master-slave function only with option QL07
Software: Yes

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

New Features/Added
- Added functionality for capacitor simulation.

Enhancements / Changed
- Improved and restructured Errors screen.
- Added popup dialog for changing AC level, DC offset and frequency in main screens when AC output mode is set.

Bugfixes / Corrected
- Fixed an error in the data viewer screen that prevented display of the measurement data.
- Fixed calculation of the resulting AC waveform in AC Waveform Graph dialog when a predefined DC offset was set.

Backwards Compatible
Hardware: No, only from production series B
Software: Yes

Firmware Release: AI1.2.2 DI1.2.0 UI1.2.1

Enhancements / Changed
Enhanced initialization procedure of external DACs.

Backwards Compatible
Hardware: Yes
Software: Yes

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

Enhancements / Changed
- Optimized calibration procedure for external voltage measurement.

Backwards Compatible
Hardware: Yes
Software: Yes

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

Bugfixes / Corrected

- Corrected the evaluation and display of user manual version in Technical Data and Firmware Update selection dialog.

Backwards Compatible
Hardware: Yes
Software: Yes

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

New Features/Added

- Added UI-specific cycling function.
- Added functionality for measuring and calibrating external voltage.
- Added functionality for power and resistance regulation with external controlled level.

Enhancements / Changed

- Removed Diagnostic dialog from the H&H Service menu.
- Updated download link for the manual QR code.
- Improved rounding of range end values for edit widgets.
- Updated display controller driver.
- Added displaying of externally applied immediate level value in main screen.
- Enhanced mouse wheel evaluation in order to run in GUIU task context.
- Added check and auto correction functions if output mode should be changed from AC to DC.
- Added confirmation popup window if actual function mode differs from desired modulator mode.
- Added notification in Graphical Data Viewer dialog if data sampling is not equidistant.
- Enhanced USB write operations to USB flash drives when running out of memory.

Bugfixes / Corrected

- Corrected voltage measurement timeout error after reset command.

Backwards Compatible
Hardware: Yes
Software: Yes

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

Enhancements / Changed

- Improved reset procedure of the touch controller during startup.
- Enhanced user notification popup after changing from remote to local operation.
- Removed support for non-volatile diagnostic values.

Backwards Compatible
Hardware: Yes
Software: Yes

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

Initial Release