

- Firmware Changelog -

Energy Monitor

MG Energy Systems B.V.

To update the Energy Monitor, install the Diagnostic tool from the [MG Download Center](#) and follow instructions given by the Diagnostic tool.

Latest release:

Energy Monitor firmware: Version 2.20

MG Diagnostic Tool: Version 3.11

<https://downloads.mgenergysystems.eu/diagnostic-tool/>

v02.20 - 12-09-2024

Changes:

- Updated supported software versions for supported devices
- Added support for SmartLink PLC
- General performance and reliability improvements
- Fixed bug with combined BMS status data being set to Energy Portal incorrectly
- Renamed settings to make functionality clearer
- Redesigned programmable IO settings
- Added voltage and current to devices overview page
- Fixed bug with down arrow being unintentionally available in event view
- SmartLink version support:
 - SmartLink MX v1.13;
 - SmartLink Connect v1.05;
- Master version support:
 - Master LV 12V v1.18;
 - Master LV v1.38;
 - Master HV v1.28;

v02.19 - 23-05-2024

Changes:

- Updated supported software versions for supported devices
- Added support for RS230
- General performance and reliability improvements
- Fixed bug with system current being sent to Energy Portal incorrectly
- Fixed bug with displaying highest instead of lowest cell temperature on extended start page
- SmartLink version support:
 - SmartLink MX v1.12;
 - SmartLink Connect v1.04;
- Master version support:
 - Master LV 12V v1.17;
 - Master LV v1.37;
 - Master HV v1.27;

v02.18 - 19-03-2024

Changes:

- General improvements
- SmartLink version support:
 - SmartLink MX v1.11;
 - SmartLink Connect v1.04;
- Master version support:
 - Master LV 12V v1.17;
 - Master LV v1.37;
 - Master HV v1.27;

v02.17 - 08-03-2024

Changes:

- Updated supported software versions for supported devices
- SmartLink version support:
 - SmartLink MX v1.11;
 - SmartLink Connect v1.04;
- Master version support:
 - Master LV 12V v1.17;
 - Master LV v1.37;
 - Master HV v1.27;

v02.16 - 20-02-2024

Changes:

- Updated supported software versions for supported devices
- SmartLink version support:
 - SmartLink MX v1.10;
 - SmartLink Connect v1.04;
- Master version support:
 - Master LV 12V v1.17;
 - Master LV v1.37;
 - Master HV v1.27;

v02.15 - 06-02-2024

Changes:

- Updated supported software versions for supported devices
- Removed display status from big status icons on minimal and extended start pages
- Changed type of "CAN Bus protocol violated" to warning from error
- Renamed Master setting "Combined battery control" to "External control"
- General UI improvements
- SmartLink version support:
 - SmartLink MX v1.09;
 - SmartLink Connect v1.03;
- Master version support:
 - Master LV 12V v1.16;
 - Master LV v1.36;
 - Master HV v1.26;

v02.14 - 13-11-2023

Changes:

- Updated supported software versions for supported devices
- Added new SmartLink MX events, settings and statuses
- General UI improvements
- Improved "Almost discharged" pop-up
- Added automatic clearing of pop-ups if source of event has been resolved
- Added additional status icons to the minimal start page
- Not (fully) supported devices now show a dedicated icon requesting updates of the device
- Added additional variables to devices pages
- Fixed bug with incorrect statuses for redundancy units
- Fixed bugs relating to getting series parallel configuration of the batteries
- Fixed bug with pop-ups not appearing if another was already active
- SmartLink version support:
 - SmartLink MX v1.08;
- Master version support:
 - Master LV 12V v1.15;
 - Master LV v1.35;
 - Master HV v1.25;

v02.13 - 04-07-2023

Changes:

- Updated supported software versions for supported devices
- Added new SmartLink MX events and statuses
- Added new Master events and statuses
- General UI improvements
- SmartLink version support:
 - SmartLink MX v1.07;
- Master version support:
 - Master LV 12V v1.15;
 - Master LV v1.35;
 - Master HV v1.25;

v02.12 - 01-05-2023

Changes:

- Updated supported software versions for supported devices
- Added new Master events and statuses
- SmartLink version support:
 - SmartLink MX v1.06;
- Master version support:
 - Master LV 12V v1.14;
 - Master LV v1.34;
 - Master HV v1.24;

v02.11 - 28-02-2023

Changes:

- Updated supported software versions for supported devices
- Redesigned minimal start view to better display charging state
- Unknown statuses are now shown as if they were information type statuses
- Fixed bug with battery status not showing in the correct location
- Improved demo mode
- SmartLink version support:
 - SmartLink MX v1.05;
- Master version support:
 - Master LV 12V v1.13;
 - Master LV v1.33;
 - Master HV v1.23;

v02.10 - 09-01-2023

Changes:

- **Added support for SmartLink MX devices**
- Updated supported software versions for supported devices
- Added support for tracked data
- Renamed "General purpose" with "Programmable" with regard to inputs and outputs
- Improved UX for entering custom numbers as used for settings
- Updated minimal start view, with new UI and more feedback to the user
- Split no "state of charge" from "no device found" UI feedback, orange border is now only shown if no device could be detected
- Overhauled devices view to allow for displaying more data about the given devices
- Improved programmable relay handling
- SmartLink version support:
 - SmartLink MX v1.05;
- Master version support:
 - Master LV 12V v1.12;
 - Master LV v1.32;
 - Master HV v1.22;

v02.09 - 21-09-2022

Changes:

- Fixed UI issues relating to the scrollbar
- Fixed issues with redundancy unit support
- CAN reliability improvements
- Master version support:
 - Master LV 12V v1.11;
 - Master LV v1.31;
 - Master HV v1.21;

v02.08 - 18-08-2022

Changes:

- *Implemented a new encoding method for the included resources, reducing the size of the update file and speeding up the update process.*
- *Added support for the latest battery firmware*
- *Master version support:*
 - *Master LV 12V v1.11;*
 - *Master LV v1.31;*
 - *Master HV v1.21;*

v02.07 - 25-04-2022

Changes:

- *Added support for LFP 230 Ah battery*
- *Added latest events*
- *Improved displaying of Master events*
- *General UI improvements*
- *Improved handling of devices in bootloader mode*
- *Added support for the latest battery firmware*
- *Master version support:*
 - *Master LV 12V v1.10;*
 - *Master LV v1.30;*
 - *Master HV v1.20;*

v02.06 - 28-01-2022

Changes:

- *Added support for RS battery release: 1.9*
- *Added latest events and device statuses*
- *Added new CAN-Bus protocol option.*
- *Master version support:*
 - *Master LV 12V v1.09;*
 - *Master LV v1.29;*
 - *Master HV v1.19;*

v02.05 - 20-12-2021

Changes:

- *Master version support:*
 - *Master LV 12V v1.08;*
 - *Master LV v1.28;*
 - *Master HV v1.18;*

v02.04 - 08-12-2021

Changes:

- *A lightning bolt is shown on devices where the contactor is closed.*
- *Renamed "Alarms" to "Events".*
- *Increased touch area of some buttons.*
- *Added showing of information events.*
- *Updated event data handling to show more data in a scrollable list.*
- *Colour coded events based on type.*
- *Added page for showing slave status.*
- *Changed Devices->System->Info page to allow for longer device names.*
- *Updated device naming to follow the latest standard.*
- *Changed default values selected on "ExpandedStart" page.*
- *Added sending of live event data to the portal.*
- *Optimisation to reduce size.*
- *Master version support:*
 - *Master LV 12V v1.07;*
 - *Master LV v1.27;*
 - *Master HV v1.17;*

v02.03 - 16-08-2021

Changes:

- *implemented a number of stability and performance improvements*
- *improved CAN bus off error handling*
- *added support for updated master events with new variables*
- *Master version support:*
 - *Master LV 12V v1.06;*
 - *Master LV v1.26;*
 - *Master HV v1.16;*

v02.02 - 26-03-2021

Changes:

- **Highly recommended update.**
- *Fixed issue with CAN Bus not re-initialising after error, introduced in version 2.01*
- *Added support for new LFP battery type.*
- *Added new setting: show notification on Master status "Almost discharged".*
- *Fixed intermittent portal transmission issue.*
- *Master version support:*
 - *Master LV 12V v1.05;*
 - *Master LV v1.25;*
 - *Master HV v1.15;*

v02.01 - 08-03-2021

Changes:

- *Added support for new RS battery types.*
- *Added support new BMS setting programmable relay mode, External pre-charge.*
- *Master version support:*
 - *Master LV 12V v1.05;*
 - *Master LV v1.25;*
 - *Master HV v1.15;*

v02.00 - 14-12-2020

Changes:

- *Added/Changed dark blue icons instead of grey icons*
- *The save icon is greyed out when disabled caused by there being no unsaved changes.*
- *Added check if saved BMS settings are the same as the retrieved settings.*
- *Changed name of device settings to local settings*
- *Changed name of system settings to BMS settings*
- *Added local setting to either send data to live server or staging server*
- *Added local setting to block retrieval of stored events*
- *Added option to save changed settings before returning or reloading settings*
- *Fixed bug where the constraints on settings were not correctly loaded*
- *BMS settings are only retrieved if necessary*
- *Added support for the new energy portal implementation*
- *Added support for MG register list variable naming in transmissions*
- *Updated Wi-Fi control.*
- *Master version support:*
 - *Master LV 12V v1.04;*
 - *Master LV v1.24;*
 - *Master HV v1.14;*

v01.09 - 05-10-2020

Changes:

- *Fixed bug caused by new state of charge message.*
- *Added check for changes in system settings between sent and received settings.*
- *Added systems settings warning icon.*
- *Fixed bug with zero length SSID's (caused by hidden networks).*
- *Added support for start/ stop and restart general purpose inputs system settings.*
- *Improved support for live events.*
- *Improved detection of not fully supported devices.*
- *Changed name for battery strategy option in system settings from "Default" to "Economic".*
- *Filtered external CAN Bus protocol system settings to only show the supported options for each Master type.*
- *Master version support:*
 - *Master LV 12V v1.04;*
 - *Master LV v1.24;*
 - *Master HV v1.14;*

v01.08 - 28-07-2019

Changes:

- *Charge indication changed from lightning bolt to arrows indicating direction of current.*
- *Show invalid battery sensor values as "N/A".*
- *Simplified ordering and location of different settings and options.*
- *Added a full QWERTY keyboard.*
- *Improved status messages and icons.*
- *Added the option to name the energy monitor. Name is visible on minimal and extended start pages.*
- *Added different protection levels to protect against unwanted changes.*
- *Added Fahrenheit as a unit.*
- *Improved time to go calculation. Where available use master sent value.*
- *System settings are now only shown if they are supported by the connected Master device.*
- *Added (dis)charge current limit setting to system settings.*
- *Added Bluetooth enabled setting to system settings.*
- *Fixed bug where last event in the event log could be out of order.*