



Solar

Monitor SM2-MU FIRMWARE - CHANGE LOG

23.10.2017

Release SM2-MU revision 2.1.1 Build 40

- Fixed RS485 communication in full-duplex mode.
 - Release Build 38 and Build 39 worked in full-duplex mode properly only in case half-duplex was selected before, now all cases are handled.

19.10.2017

Release SM2-MU revision 2.1.1 Build 39

- Data communication with GSM module was optimized (PPP over GPRS).
 - Minimal signal intensity for a connection is now -105 dBm, formerly it was -83 dBm.
 - Optimized according to the IETF RFC1661 /The Point-to-Point Protocol (PPP)/.
 - All possible combinations during connection negotiation are now handled (configuration and timing). Tested with several operators.
 - Automatic connection redial, if this is closed by operator due to no traffic.
 - Immediate reaction to a connection close.

10.10.2017

Release SM2-MU revision 2.1.0 Build 38

- SD card operations are optimized and protected against possible failures. The goal is to offer an operational device without a need for service intervention.
 - **ATTENTION!** After upgrading from previous revisions, internal SD card is formatted and you need to upload the firmware once again.
 - The card is now divided into 3 partitions – system, operational and backup (safety), previously, there was only 1 common partition.
 - In case of a failure in the operational partition, the partition is formatted.
 - In case of a failure in the system partition, the partition is recovered from the backup partition.

18.08.2017

Release SM2-MU revision 2.0.11 Build 37

- Before a restart, device waits until operation with SD card is finished.
- Steca – protocol tuning in cooperation with Steca Elektronik GmbH.
- Steca – FIX: if the second RS485 interface is configured, detected device was shown as offline.
- Context ComBox – energy name corrected.
- Web page refresh now continues also after communication with device is interrupted.
- No more delay period before a form for user authentication is displayed.
- Analog output control conditions are now properly displayed.

09.06.2017

Release SM2-MU revision 2.0.10 Build 36

- WattRouter & GreenBonO – Calculation of energy fixed.
- Upload base page is now fixed to English language.
- Enable RS232 for SM2-BE without a need to restart.
- Detailed device overview fixed.
- Qeed - baudrate list fixed.

09.05.2017

Release SM2-MU revision 2.0.10 Build 35

- WattRouter – inverted sign fixed for power.

04.05.2017

Release SM2-MU revision 2.0.10 Build 34

- WattRouter – change in variable multipliers (W instead of kW).

27.04.2017

Release SM2-MU revision 2.0.10 Build 33

- WattRouter protocol changes & optimization – Energy calculation by power integration

21.04.2017

Release SM2-MU revision 2.0.10 Build 32

- WattRouter meter communication protocol added (beta).
- Iridon SPM1 Basic meter communication protocol added.
- Some English localization strings modified.
- DHCP client optimized.

11.04.2017

Release SM2-MU revision 2.0.10 Build 31

- DHCP optimization - if IP address assignment never succeeds, IP address 169.254.1.1 and mask 255.255.0.0 is assigned.
- Steca inverter variables modified.
- Qeed variables fixed.
- LCD fixed.

30.03.2017

Release SM2-MU revision 2.0.10 Build 30

- If a DHCP server boots later than SM2-MU, the IP address was not assigned. We now continue to periodically poll for IP assignments also after initial set of requests.

22.03.2017

Release SM2-MU revision 2.0.10 Build 29

- Studer Innotec - SNMP MIB: multiplier fix
- SunSpec UNI - multiplier fix, SolarEdge events
- SunSpec UNI – battery block (124) implementation

17.03.2017

RC1 SM2-MU revision 2.0.10 Build 28

- GPRS - added support for data transmission to the cloud portal
- DHCPc – IP address assignment speed optimized
- default DNS server IP address setup added
- web UI
 - device web interface optimized
 - automatic and manual device detection added
 - unit firmware upgrade optimized for slower connections
 - firmware upgrade progress is now visualized
- unit is no more restarted after device detection
- protocols
 - SunSpec UNI - added
 - Qeed - added
 - Steca on-grid i off-grid Tarom - added
 - Fronius SunSpec - MPPT variable reading fixed
 - Siemens a Refusol - sensor reading added
 - Fronius SunSpec, SunSpec UNI, Studer-Innotec – variable multipliers optimized
 - ZPA meters (EN 62056-21) - individual phase energies and $\cos \varphi$ added
- energy counter accuracy increased to 2 decimal places

24.02.2017

Release SM2-MU revision 2.0.00 Build 27

- device energy counting fixed
- Delta protocol - support for models 212-222 added
- all drivers - data read optimization on TCP interface - a connection is not closed for same IP address

30.01.2017

Release SM2-MU revision 2.0.00 Build 26

- Fronius Symo - suppression of alarm code 32 (Power Low) , 64 (DC Low) and 96

26.01.2017

Release SM2-MU revision 2.0.00 Build 25

- fixed unit reset when energy counters exceeded internal FRAM cache

- fixed upgrade from previous FRAM data structure version

29.11.2016

Release SM2-MU revision 2.0.00 Build 22

- fixed detection and communication with ZPA meters (EN 62056-21)
- fixed unit name saving and its retrieval after reset to factory defaults
- fixed SM2-GSM modem reset
- added support for ABB UNO-2.0/3.0-TL-OUTD detection (formerly PowerOne)

04.11.2016

Release SM2-MU revision 2.0.00 Build 21

- added portal back channel functionality for remote firmware upgrade and configuration backup / restore

21.10.2016

Release SM2-MU revision 2.0.00 Build 20

- fixed GreenBono meter reading
- added support for SNMPv3 for Studer-Innotec (encrypted, secured communication)
- added support for Xantrex protocol on TCP interface
- added support for Fronius Sunspec protocol on RS485 interface
- added support for selection of more counter types (web interface)

19.09.2016

Release SM2-MU revision 2.0.00 Build 19

- added support for sending alarms from meters, batteries and trackers
- added support for piggy-back module (RS232 on RS485 YZ terminals)
- enhanced support for Studer-Innotec products
 - communication speed increased to 115200 Bd
 - added event message handling
 - added support for System block variables
- added support for Fronius SmartMeter in Fronius Sunspec protocol

14.07.2016

Release SM2-MU revision 2.0.00 Build 18

- added support for GreenBono device
- added support for Solutronic inverters
- added support for Satcon inverters and stringboxes
- added support for SNMPv1 for Studer-Innotec
- added support for variable min, max and average values

16.06.2016

Release SM2-MU revision 2.0.00 Build 17

- added support for KMB SMC144 power quality analyzer (submetering and smart metering applications)
- changed unit web design
- added support for unit setup wizard
- new graphs for energy counters

18.03.2016

Release SM2-MU revision 2.0.00 Build 16

- fixed current reading in MorningStar protocol
- fixed sending of portal data queue
- added support for LCD presentation in HD resolution
- incorporated new Delta protocol specification
- incorporated new Studer-Innotec protocol specification

29.02.2016

Release SM2-MU revision 2.0.00 Build 15

- added support for Sunways communication protocol
- added support for Fronius Sunspec protocol
- added support for 3 pulse counters with energy historical data stored inside unit (formerly only 1x S0 pulse input)