

HLP Data BMS4S Revision information

Version x.x.81

1. Support for 1602 LCD display with i2c interface
2. Corrected SoC calculation when charging

Version x.x.80

1. Improved balancing calculation
2. Improved SoC calculation
3. Minor bugs fixed

Version x.x.76

1. Corrected calculation of unbalance once again. Revision x.x.75 underestimated it too much.

Version x.x.75

1. Corrected calculation of unbalance. Earlier version often overestimated balancing demand.
2. If a second battery is used as backup it is now possible to limit the voltage from the alternator when it is being charged (only board 3.x).
3. An experimental profile used for SoC estimates are available that seems to work well with Winston cells.
4. Minor improvements and bug-fixes

Version x.x.70

1. The bluetooth adapter is no longer automatically switched on when a command is received from the USB-adapter. This increases the possibility to have both the bluetooth adapter and the USB adapter connected simultaneously without disturbances (depending on bluetooth version).
2. If a large load is connected it was earlier possible that the warning for disconnection was bypassed and the disconnection happen without warning (depending on the settings). Now the low voltage warning will always be activated at least one minute before the disconnection happens.
3. The stability of the voltage readings has been improved. The change has only minor effect

on the functionality.

4. It is now also possible to update the settings that are used at a factory reset. Command `sf=314` will save your current settings to be used if later command `fr` (factory reset) is given.

5. No parasite power to the temperature sensors is now the default on version 2.x and 3.x, but it will be automatically switched on when updating from earlier versions.

6. SoC estimates have been improved.

Version x.x.60

First commercial version