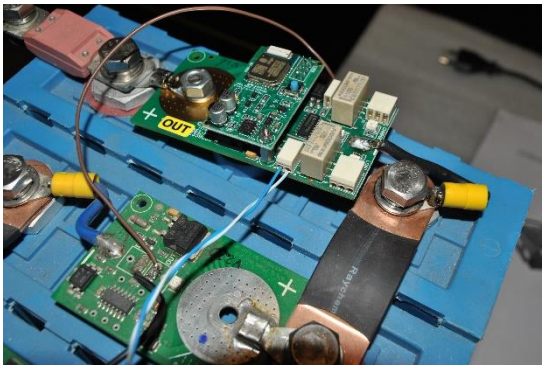
Connection and Software Description

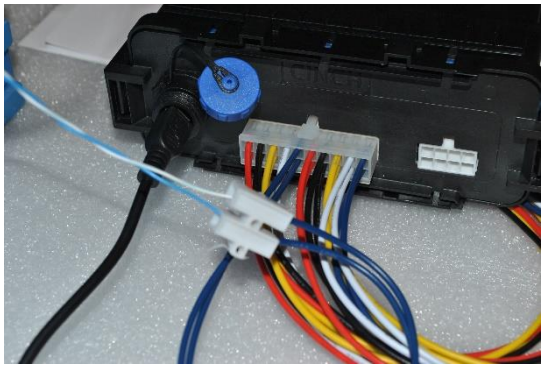
BMS123 Smart – Extended module

This documents describe connection of Extended module and software settings. Please see complete manual for more information.

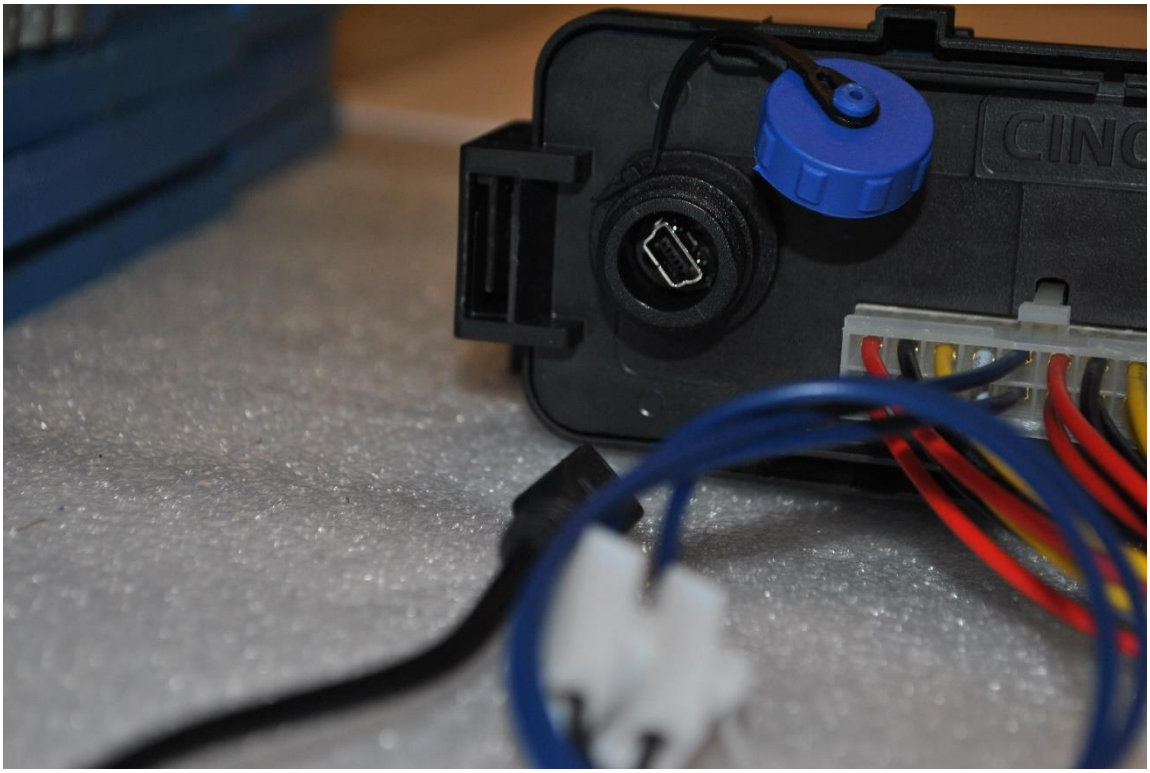
1. CONNECTION

a) Prepare you battery pack by BMS123 Smart modules and connect the Extended module at PIN 6 and 16 (no polarity) by twisted wires to the communication port of BMS123 Smart OUT module at last cell.





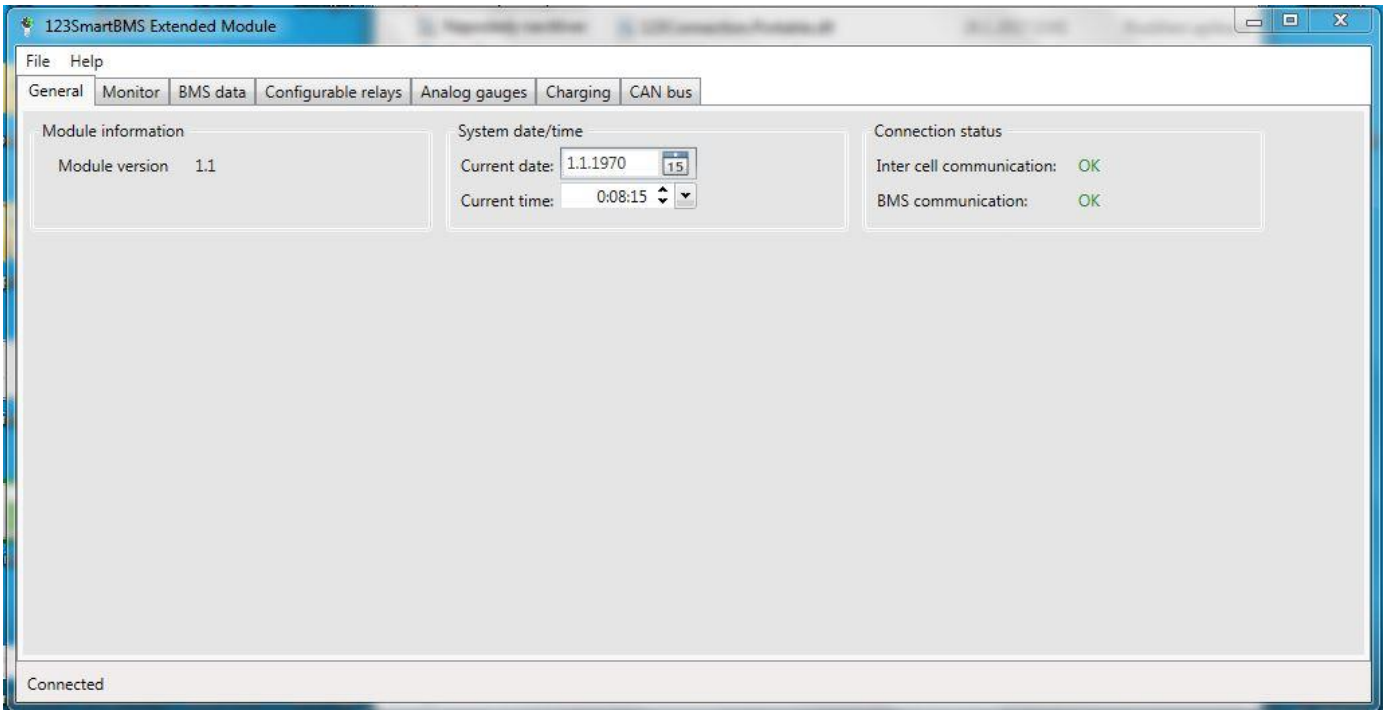
b) Connect the Extended Module by miniUSB - USB cable with you PC.



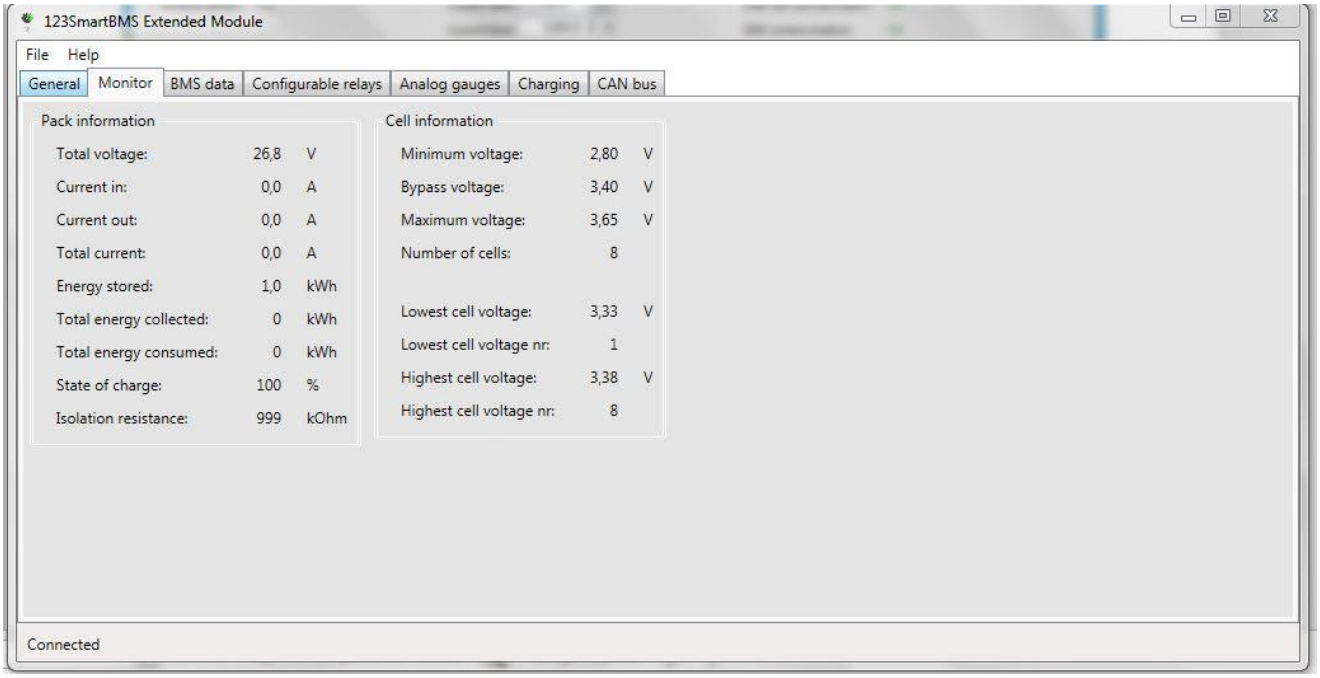
c) PC will find virtual USB/COM port
d) Download the software BMS123 Smart-Extended-1.0.zip and unpack the file
e) Install the software to your PC and run file BMS123 Smart-Extended.exe.
f) Confirm the running of file if OS Windows require this confirmation

2.SOFTWARE

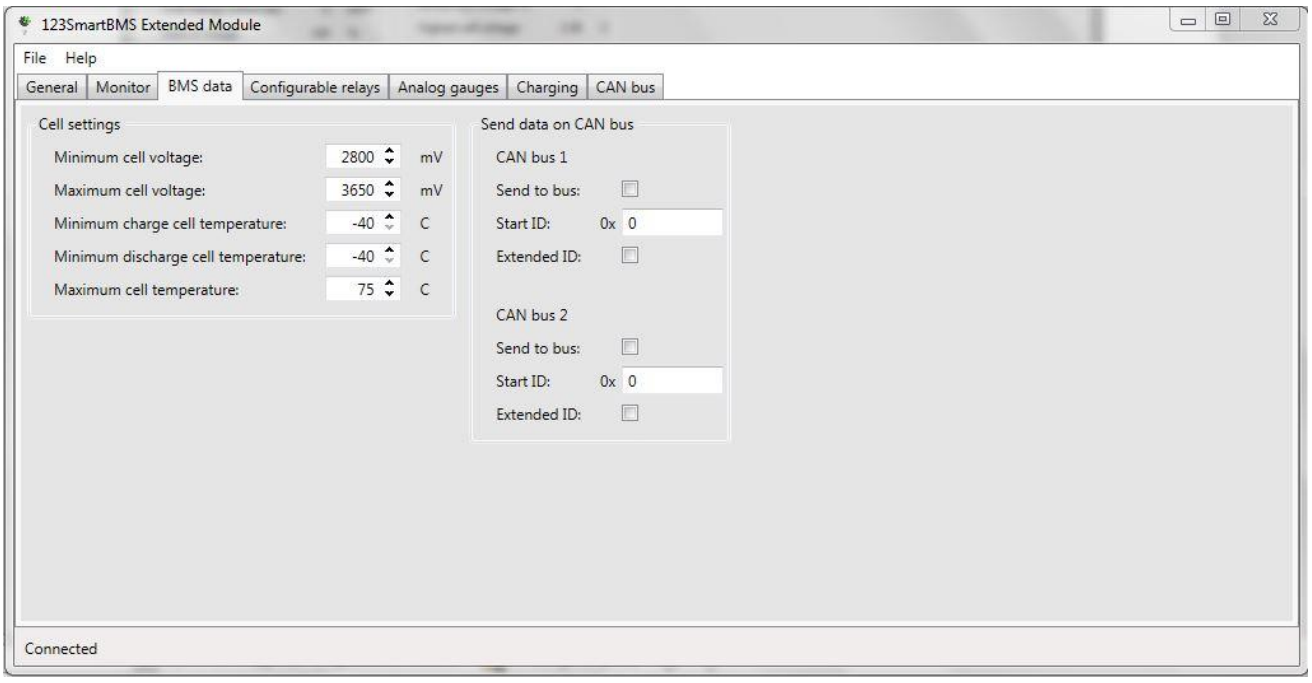
Check the connection status in General settings and set the system day/time



The Monitor show the health of whole battery pack and basic setting s you provided by Android application for BMS123 Smart. Check the values are right by used cells.



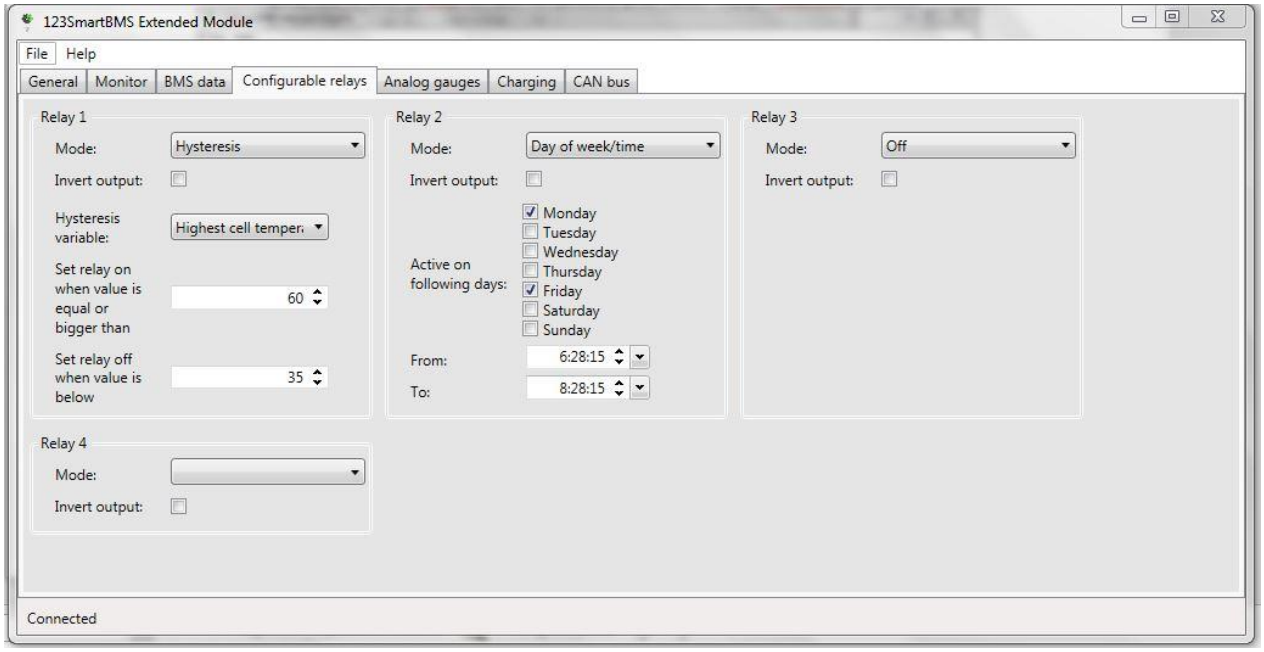
You can set the new values for used cells in the BMS data settings with also temperature protection and CAN ID address to broadcast the values on CAN bus.



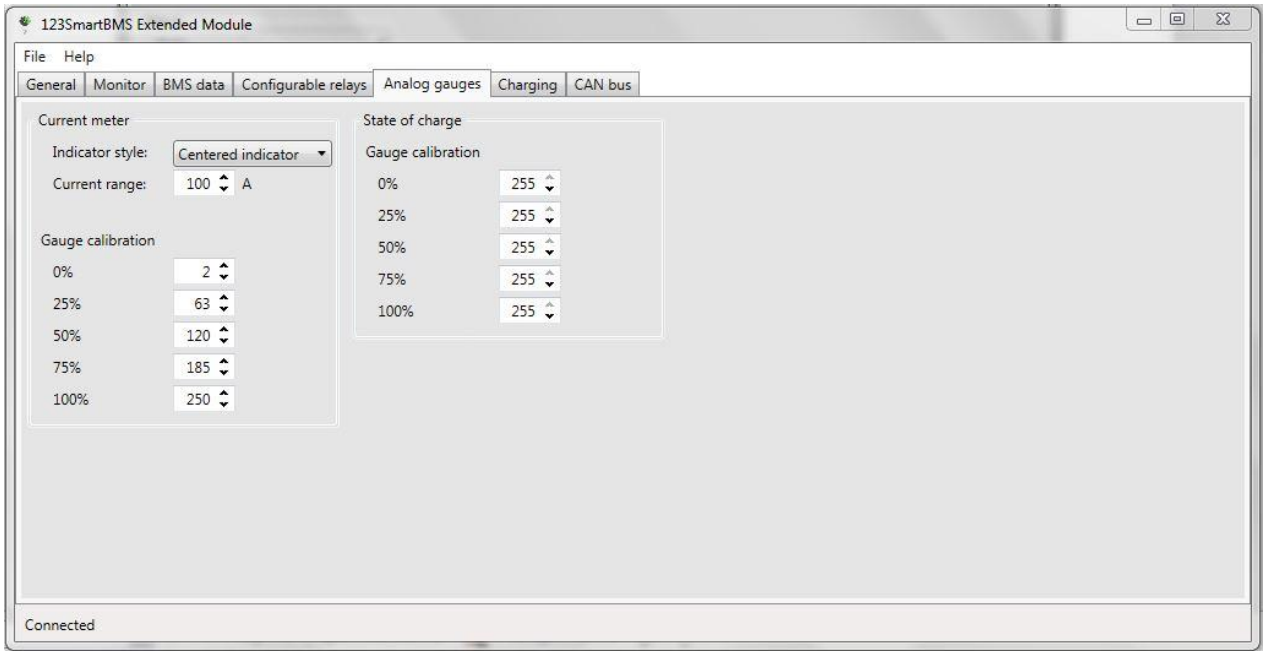
The extended module is equipped by 4 relays and you can configure this function in next setting.

Following example show the first relay switch on fans when the temperature reach 60°C and switch off in case of lower temperature then 35°C.

The second relay switch on charger twice per week for two hours.

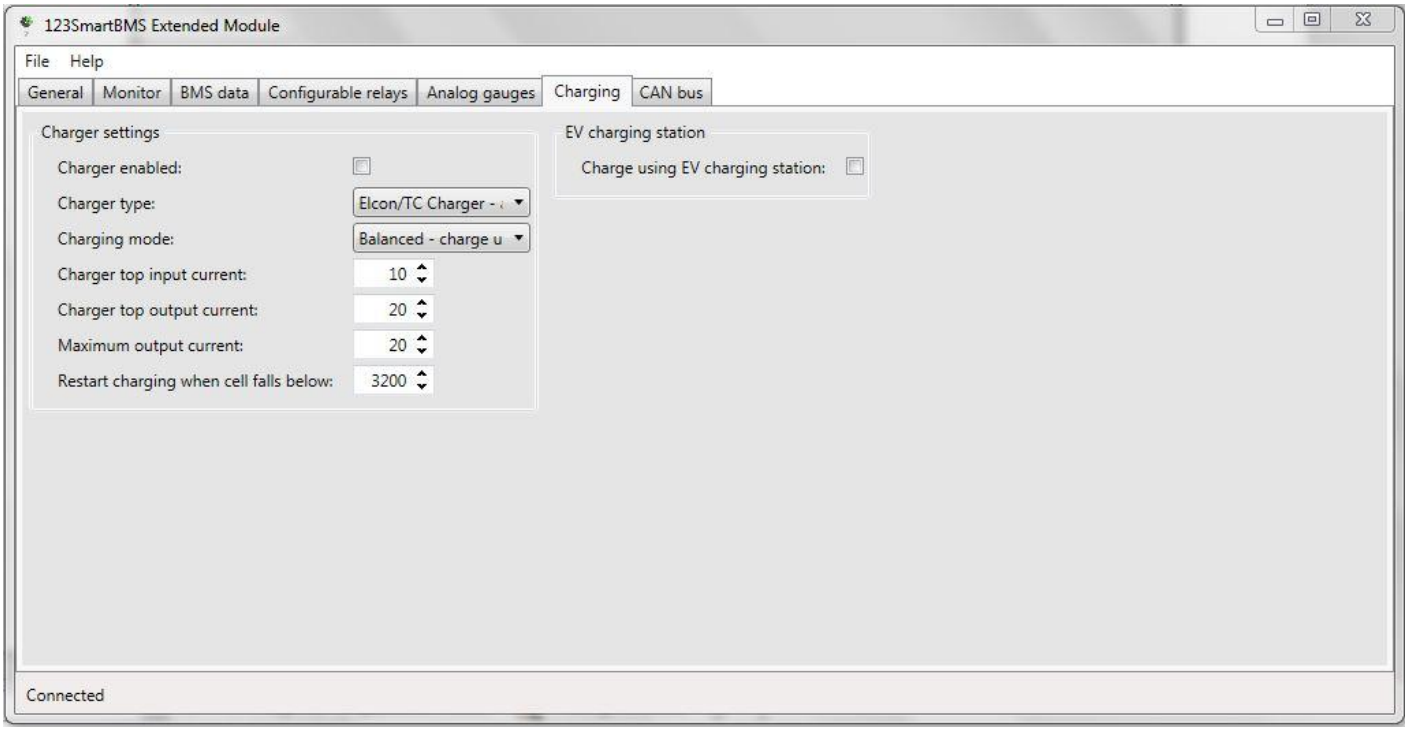


Provide calibration and set the right current meter in next settings if your system will use the [analog gauges](#).

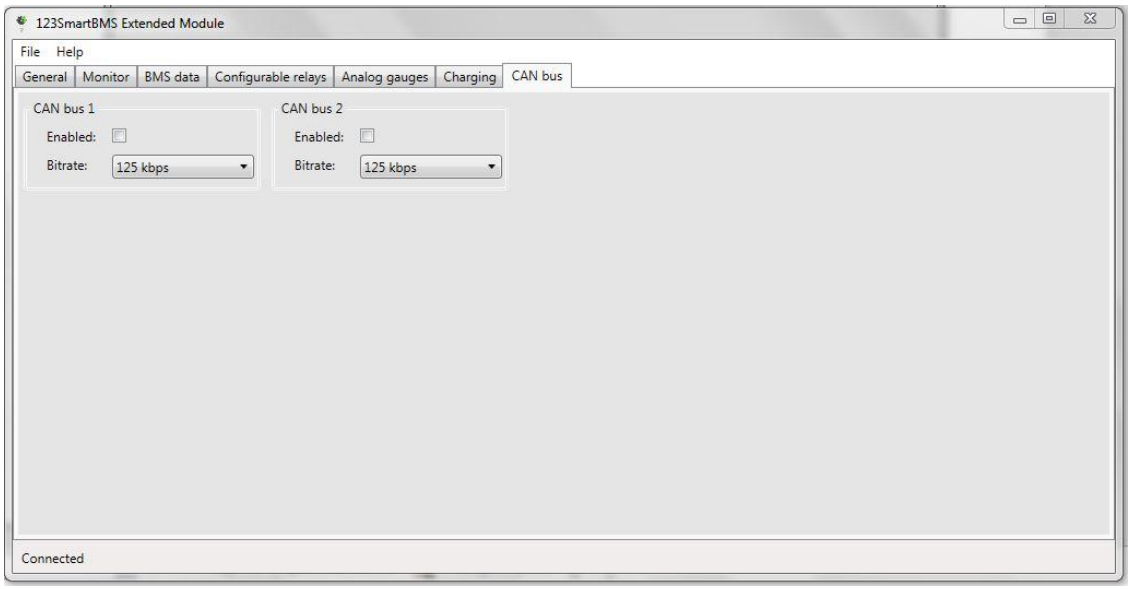


The Extended module supports smart Elcon/TC chargers so you can provide the needed values to be controlled by Extended module.

The J1772/IEC 62196 protocol for adaptive charging is also supported. Switch on EV charging station if you need to use these protocol.



The last setting is for CAN bus communication and you can set the bitrate for the CAN there.



See more information at the product page of [BMS123SM-EM](BMS123SM-EM).

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