Test and EEprom Configuration Tool for SMC Extension

You need a serial terminal program with ANSI Support, like GTK-Terminal(Linux) or Putty(Windows) Settings: 115200 baud, 8N1

It is important to use the Optibootloader on the Mini-Pro.

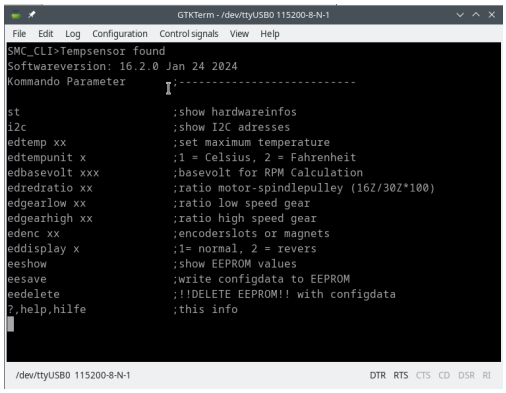
use this commandline to flash the bootloader:
avrdude -pm328P -cstk500v2 -P/dev/ttyUSB0 -b115200 -u -Uflash:w:optiboot_atmega328.hex:a -Ulfuse:w:0xFF:m -Uhfuse:w:0xDE:m -Uefuse:w:0xFD:m -Ulock:w:0x3F:m

then flash the file SMC_Test_Config_V16_2.hex to Mini-Pro.

After that start serial terminalprogramm, „help“ show all possible commands

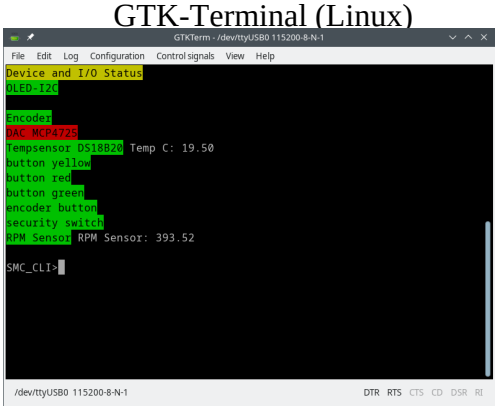
Command "st" shows the hardwarestatus of all buttons, switches, encoder, RPM sensor, Temperature Sensor.
first turn the encoder, after that push all buttons, switches, RPM.
If all IO runing, every status is green or red.

after Ardunio Reset

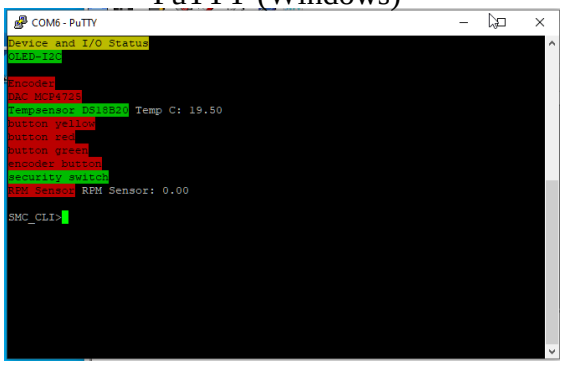


Statusscreen with command „st“

GTK-Terminal (Linux)



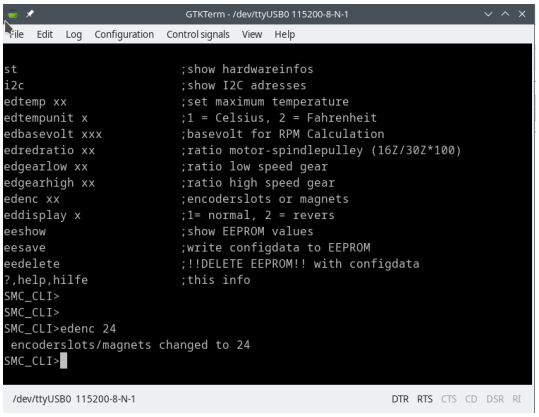
PuTTY (Windows)



Eeprom configuration:

example:

set # of encoder/magnets for the RPM-Sensor to 24,
command: „edenc 24“



„eeshow“ shows all setting and default values