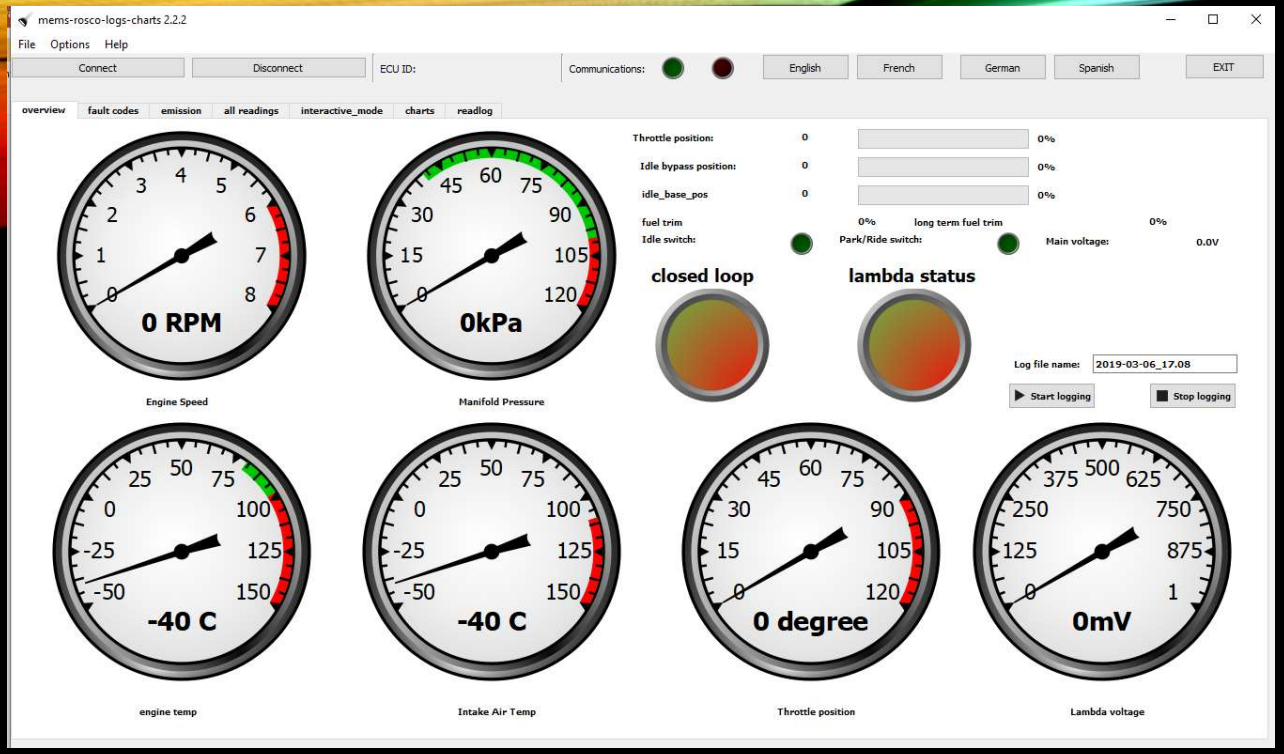

MEMS-ROSCO
Analyzer for austin mini mems 1.3 and 1.6

# REQUIREMENTS

- Analyzing tool based on collin bourassa‘s mems gauge
- First you need  an interface (usb TTL) with spezial 3 point connector or you solder any a pair of 3 point sockets parallel to your origin white socket in the car
- For building this interface have a look here:
- https://github.com/colinbourassa/librosco/blob/wiki/HardwareInterface.md

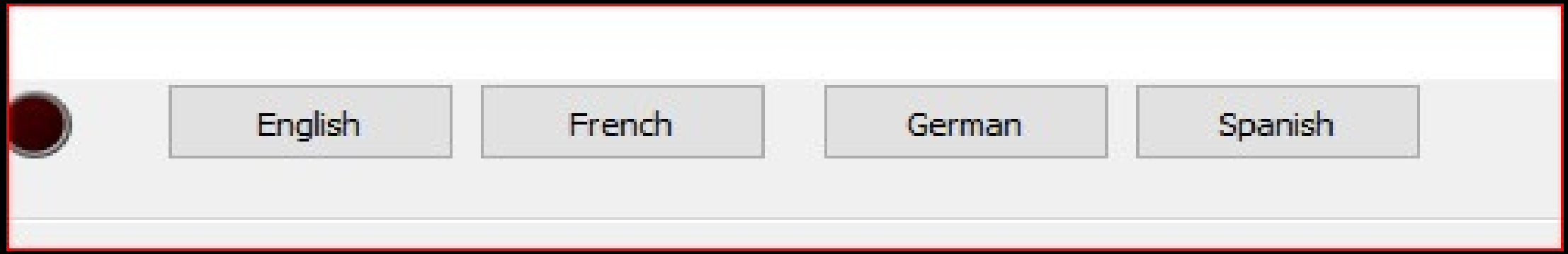
| Pin number | FTDI wire color | Pin assignment | Wire color on mating connector in car |
|---|---|---|---|
| C549-1 | Black | Signal ground | Pink w/ black |
| C549-2 | Yellow | Rx (car ECU to PC) | White w/ yellow |
| C549-3 | Orange | Tx (PC to car ECU) | Black w/ green |

- Then of course you need the software :https://github.com/LeopoldG
- And a laptop or Pc

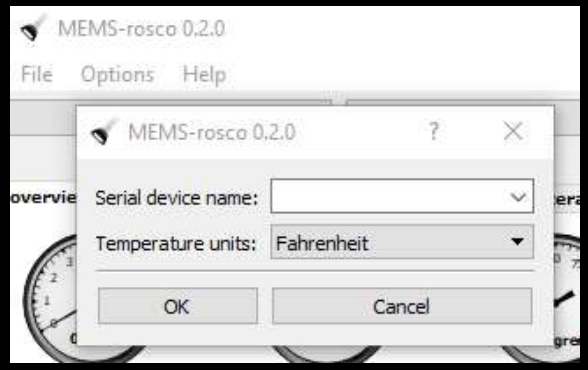



# MAIN PIC WHEN YOU OPEN MEMS-ROSCO

# FOUR DIFFERENT LANGUAGES



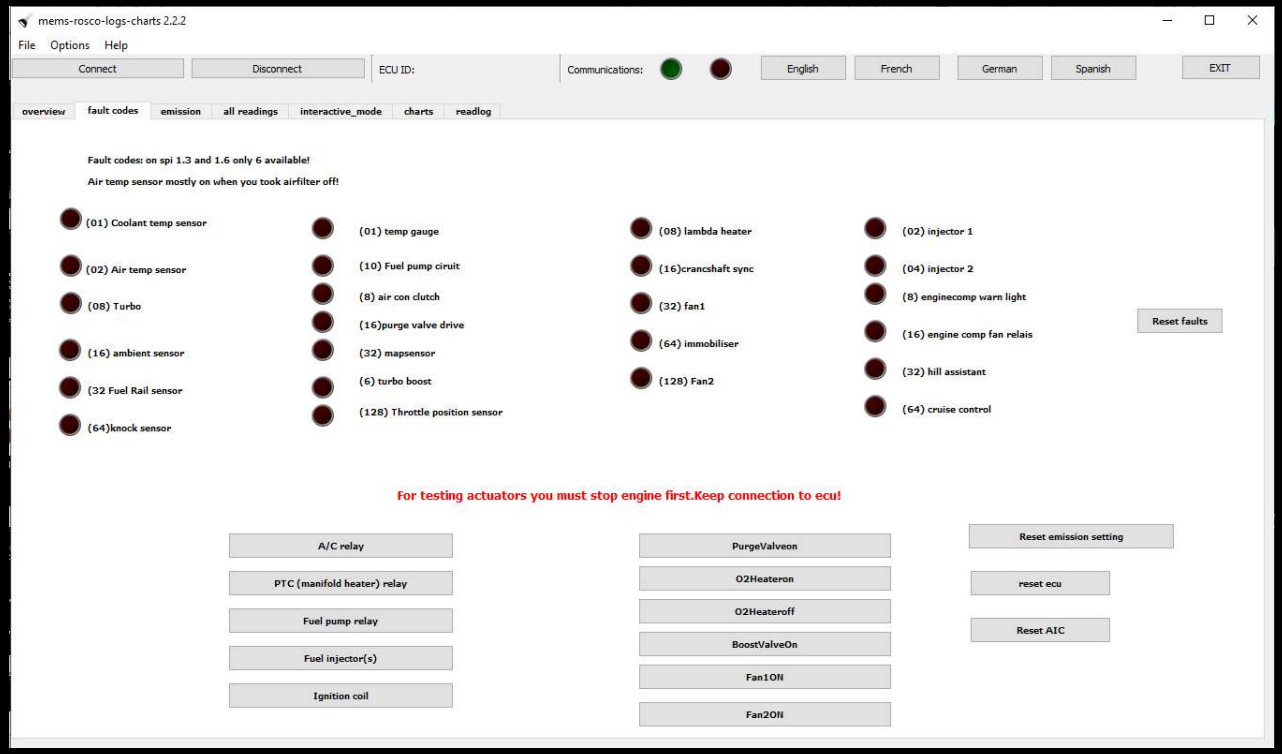
# FIRST OF ALL CONNECT YOUR INTERFACE AND OPEN OPTIONS




Set com port and temp units then press connect

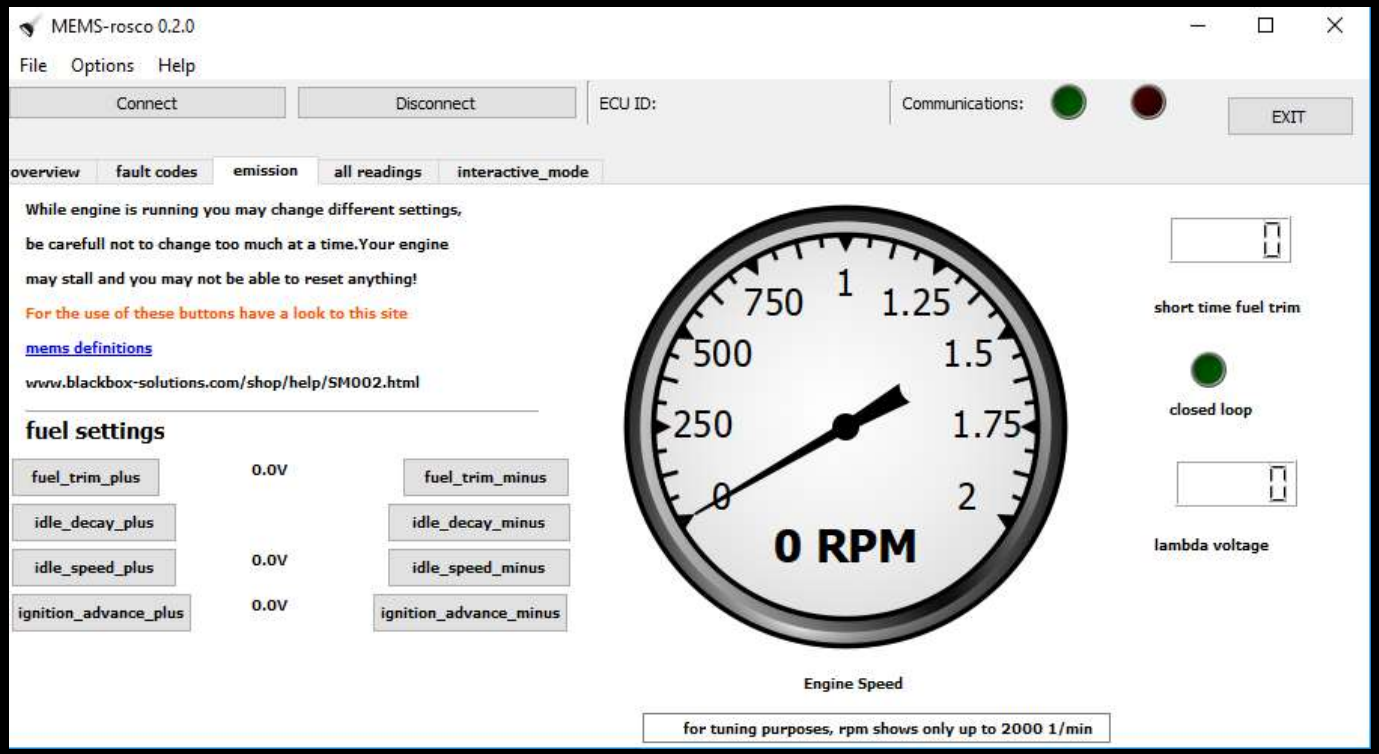
All readings and knobs are self explaining

# THE TAB FAULT CODES

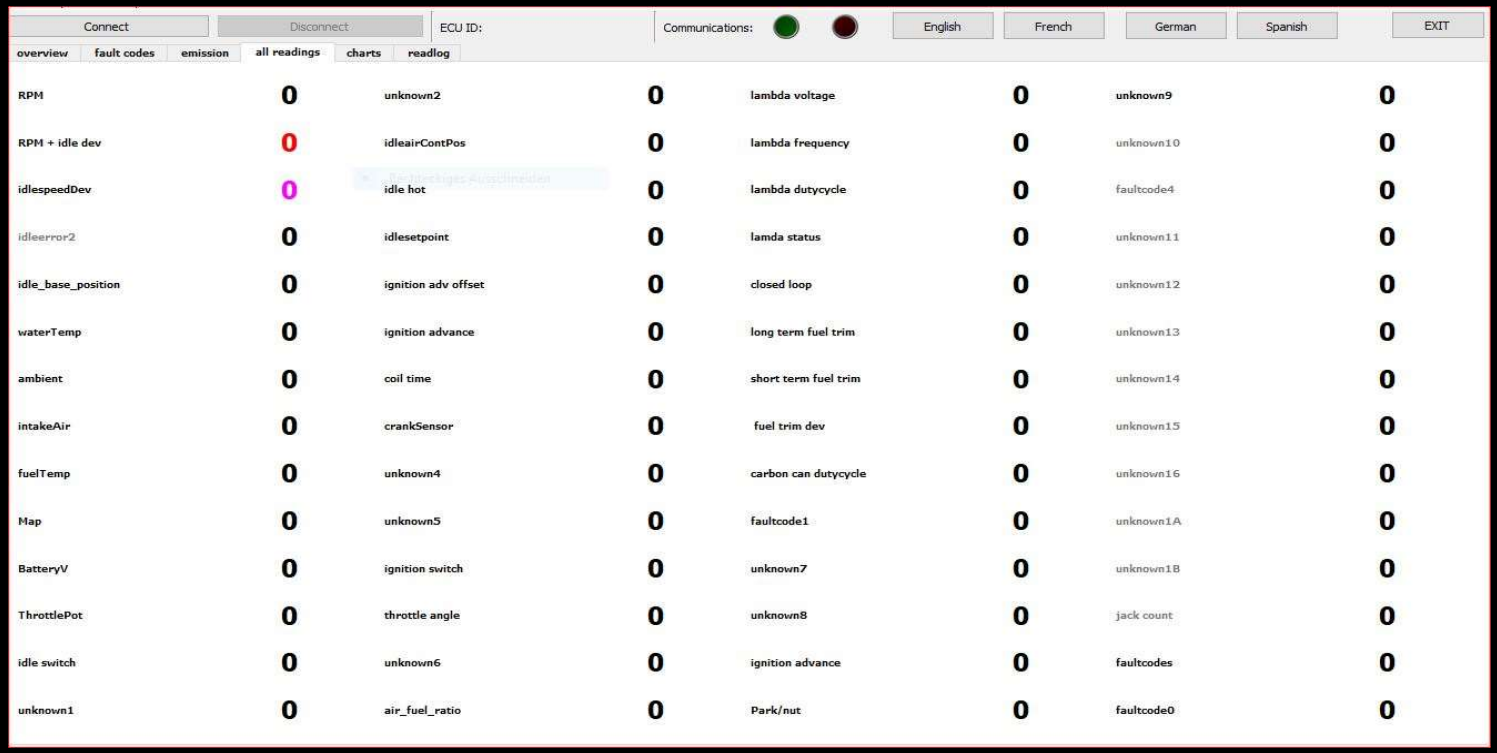



Everything is explained as well

# FINE TUNING ON TAB EMISSIONS

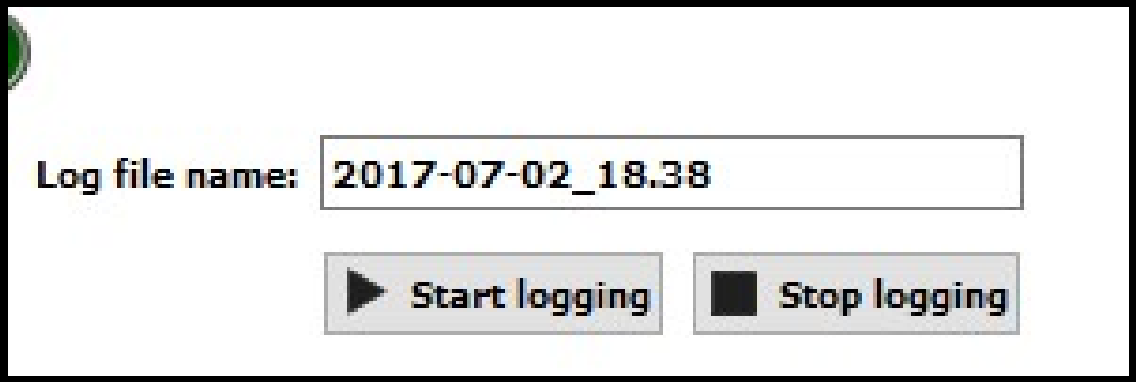


# ALL READINGS WILL SHOW YOU A LOT OF PARAMETERS




Even those we do not know what they stand for the unknowns „UK“
If you know what those unknown values stand for you can tell us at The forum: https://groups.google.com/forum/#!forum/mems-diagnostics
When you hover over the parameters you will be shown some hints!

# LOGGING




If you started logging there will be a logfile  in the mems-rosco/logs directory
You may change the name bevor starting logging

# WITH FIND AND READ FILE YOU WILL BE SHOWN YOUR MEMS-ROSCO LOGS DIRECTORY ,CHOOSE YOUR LOGFILE.WITH THIS TOOL YOU CAN READ LOGFILES FROM

MEMS-GAUGE
MEMS-ANALYZER
MEMS-SCAN
MEMS-DIAG
MEMS-READ
MEMS-ROSCO

IF YOU HAVE A *.TXT OR *.CSV YOU CAN NOT READ COPY IT TO THE FORUM AND DESCRIBE THE PROBLEM

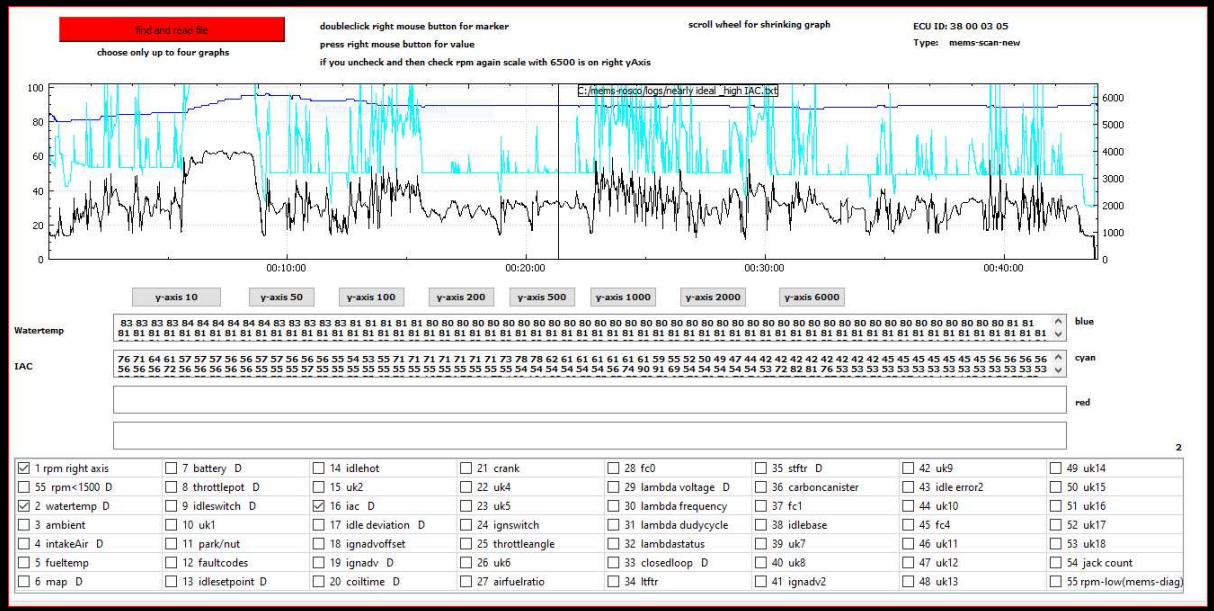
g1

# INBUILD ANALYZING TOOL

You may open up to 4 graphs at a time.

With the mice you can shrink and extend the graphs.

Read everything on the tab it is self explaining



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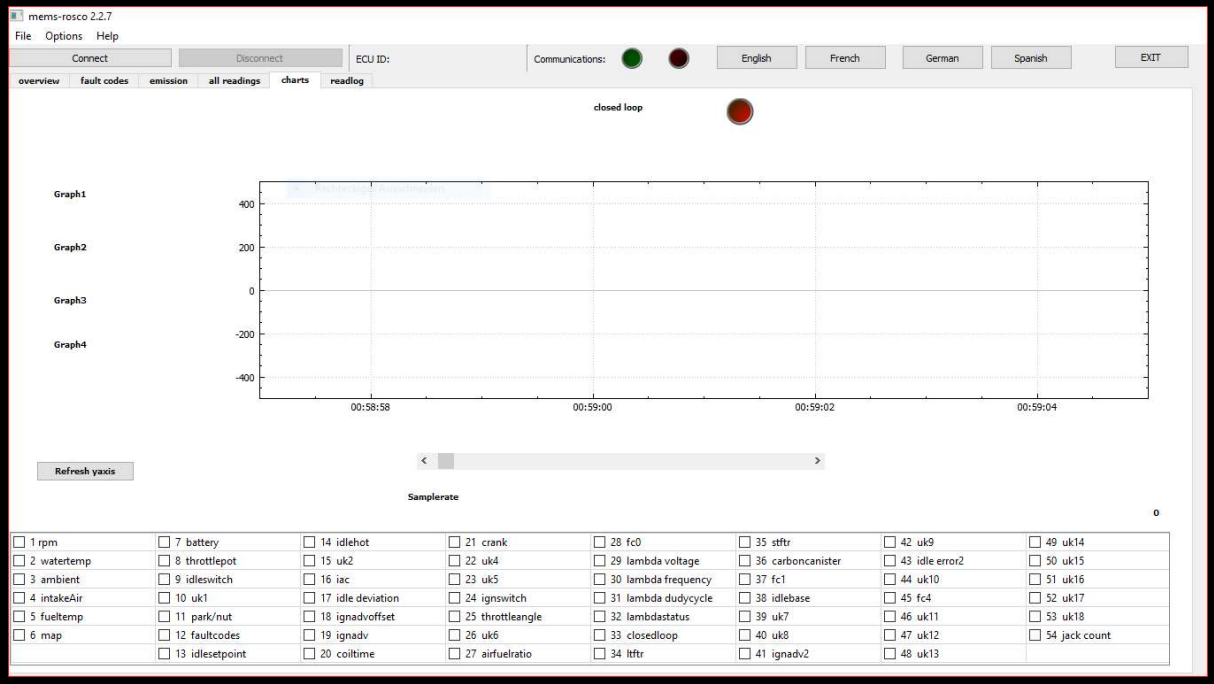
**g1** genpop; 26.07.2020

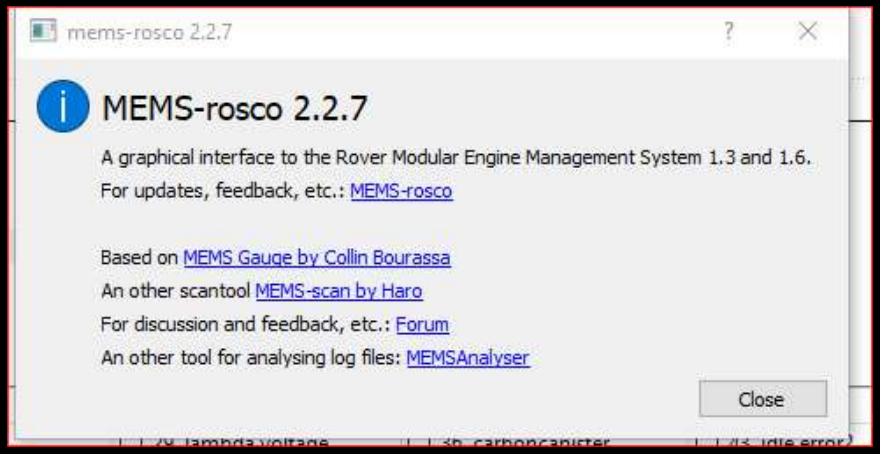
# CHARTS

On this side you may see all parameters from ecu like on an oszylloskop.

Up to four at a time are possible!



# READ HELP CONTENTS AND ABOUT

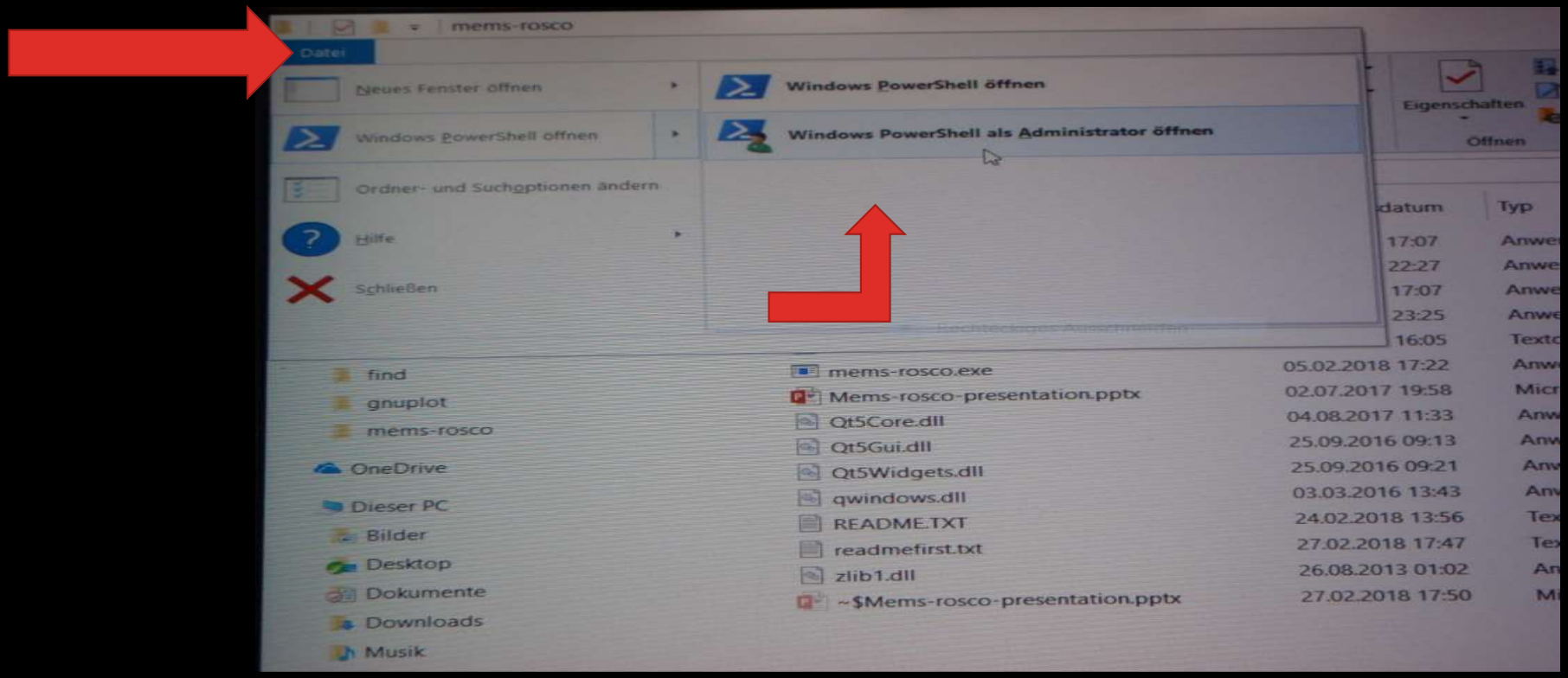


# READMEMS FOR SPECIALISTS

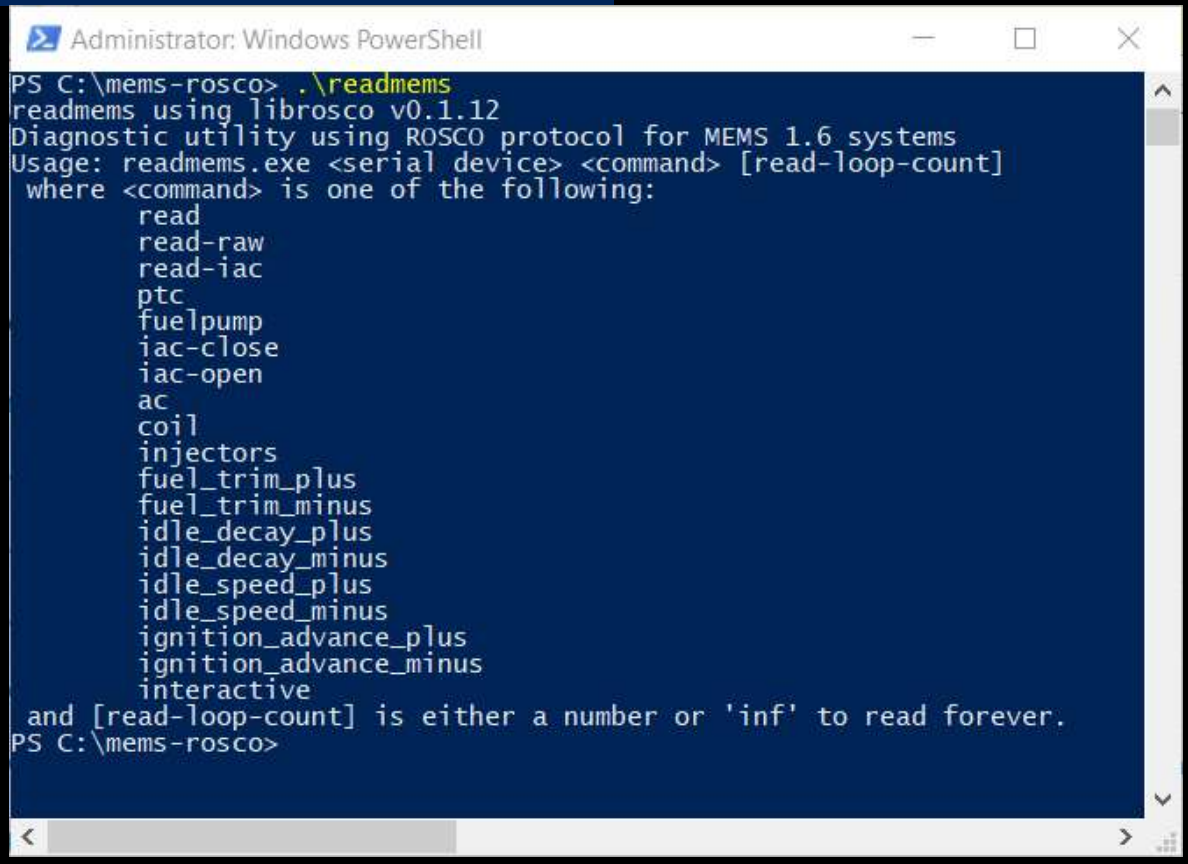
- Even you can do nearly everything on the graphical interface there is a spezial tool within the directory mems-rosco/bin.
- Readmems works in „dos“ mode
- You may call all the commands and speak to the ecu based on Colins protocol
- So only work with this tool if you are familiar with this protocol and you know what you are doing.

# INTERACTIVE WORK WITH ECU

- Close mems-rosco
- Open explorer and switch to mems rosco directory
- Open file->windowspowershell->windowspowershell->adminmode




- Powershell should show that
- you are in the directory
- „mems-rosco“
- Otherwise switch
- to „ cd c:\mems-rosco“
- Then cd bin
- No you may type:
- .\readmems and get the
- following



- To talk to the ecu you have memsread to tell on which comport your interface is hooked up. Supposed it is com 1
- So type .\memsread com1 interactive or one of the shown commands.
- To reset ecu type .\readmems com1 interactive 0x0F and readmems com1 interactive 0xFA
- Now start mems –rosco again , switch on ignition, start login, start the engine.

- A big thank you to everybody who helped on developing this tool.
- First of all Colin Bourassa who set all his code under GPL.
- Martin Rubenstein, he tested all the different versions
- Richey Alen he inspirated me with his analyzer
- Efdur for his french expressions
- The guys from the QT-forum
- And all the others who inspirated me or gave help