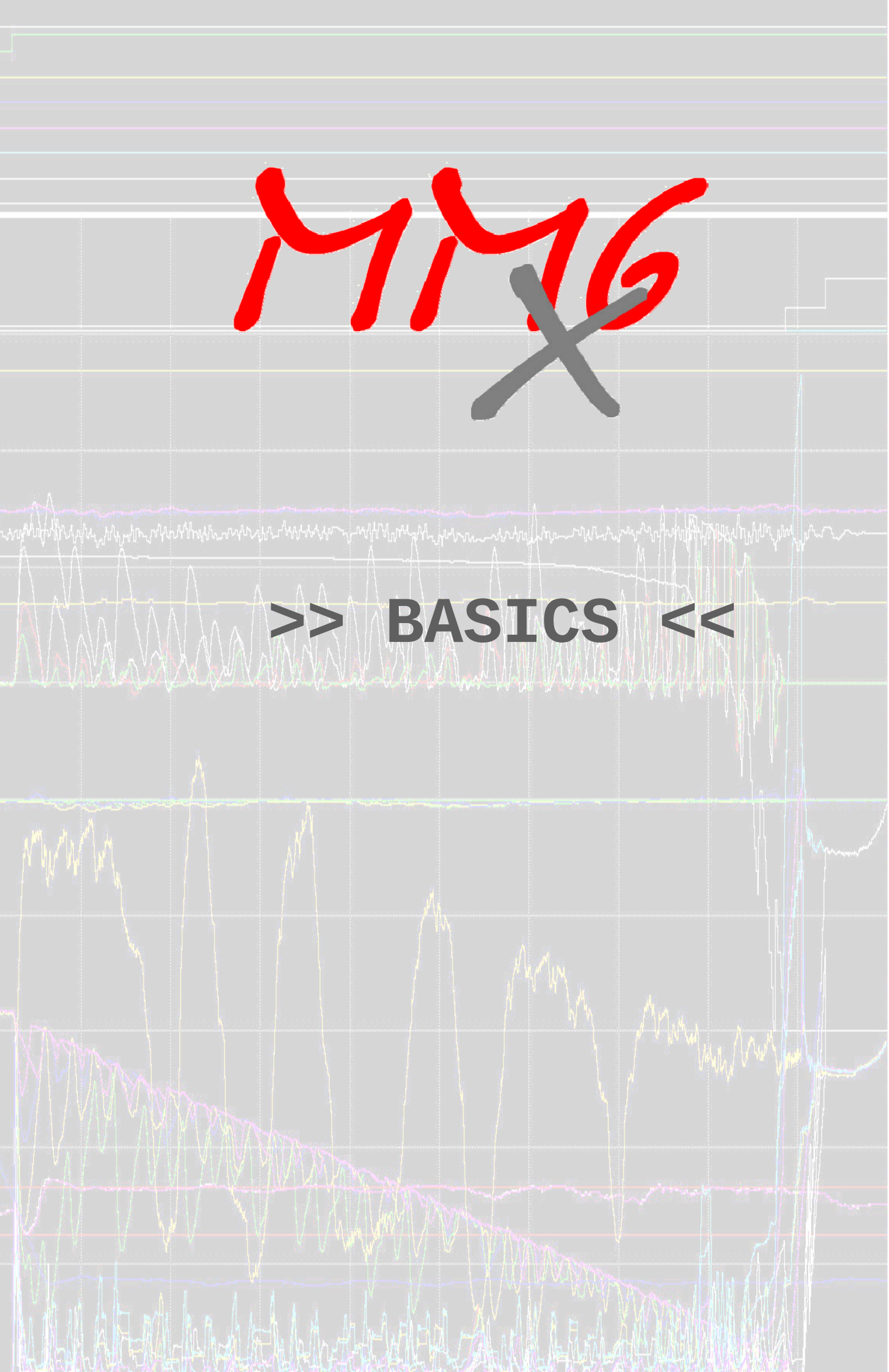
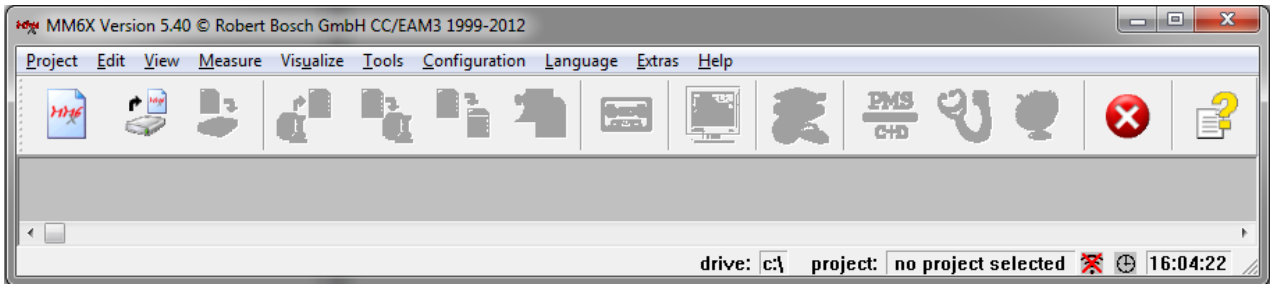

MMG
>> BASICS <<
PW[]
VarCode_Status[]
Bis_B[]
TCS[]
BTCAct[]
BTC_FL[]
BTC_FR[]
Aquaplaning[]
CtrlMode_FA[-]
v_FL[]
v_FR[]
v_FR[m/s]
v_Veh_s[]
dsITarTCS[]
sIWheel_FL[-]
sIWheel_FR[-]
aVehy[m/s^2]
Sas[]
ayToF[]
sITarTCS0[]
sITarTCS0[]
CostSoUnf[]
v_Veh_y[m/s]
myLat[-]
myLong[-]
MPropDrvReq[]
MPropTarFastPtc[]
vGiSoAckU[-]
MProp[]
MbWheel_FL[Nm]
MbWheel_FR[Nm]
MbWheelTar_FL[Nm]
MbWheelTar_FR[Nm]
p_Mc_internal[bar]
p_Model_FL[bar]
#pVL[bar]
p_Target_FR[bar]
p_Model_FR[bar]
#pVR[bar]
p_Model_FL[bar]
#pHL[bar]
p_Model_FR[bar]
#pHR[bar]
#Temp_1[oC]
#Temp_2[oC]
#TRadVL[oC]

After the first start of MM6x.exe, the most menu options are deactivated, because no project is opened.

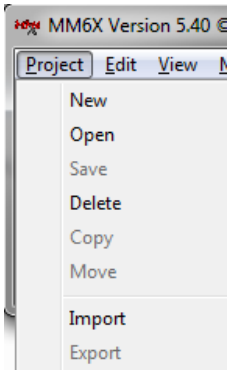


You can select the language (german or english):

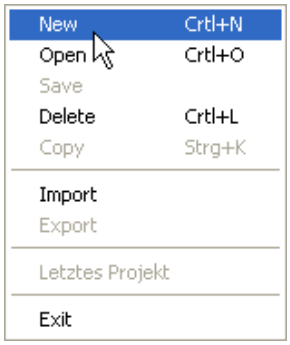
The online documentation is available in te ***„Help“*** menu:
Press ***„F1“*** for starting the MM6x Help file in the selected Language.
The TWIKI Tool Homepage is only for Bosch internal usage.
„Tool Versions“ shows you a list, including the versions of the actual used MM6x tools.

Your first actions should be:

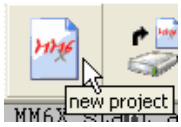
- Create a new project (**New**)
- Open a existing project (**Open**)
- Import a project (**Import**)



1.) Create a new project



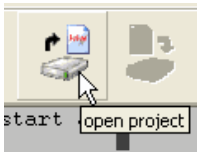
or



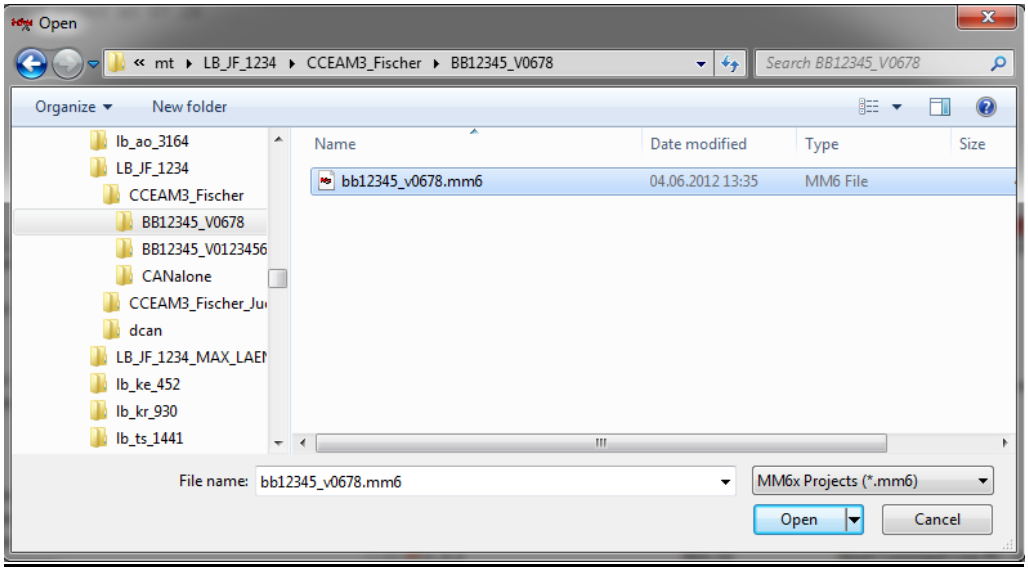
See **"MM6x_Create_a_project.pdf"** for details in creating a MM6x project.

2.) Open a existing project

or



In a „File Open" dialog box you can select a existing MM6x project (*.MM6)



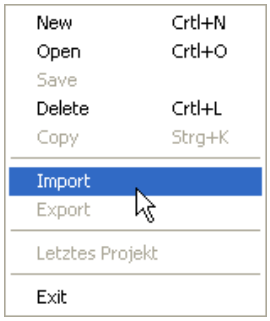
All the MM6x projects are stored in the MM6x base directory ***„c: \ mt".*** This directory is fix and all new projects will be created also here.

You will find 3 subdirectories for each project ***<car name>*** \ ***<user name>*** \ ***<project name>.***
i.e.: ***C: \ mt \ lb_jf_1234 \ fischer \ bb12345_V1234 \ bb12345_V1234.mm6.***

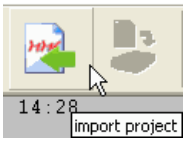
This project directories were created automatically during the ***„Create a new project"*** process.

Please do not edit this directory names !!

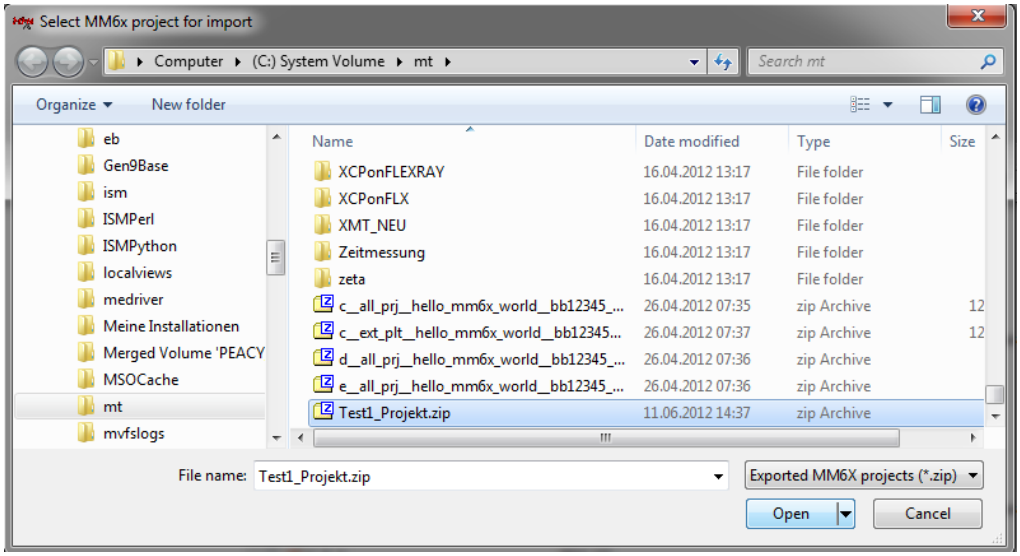
3.) Import a project



or

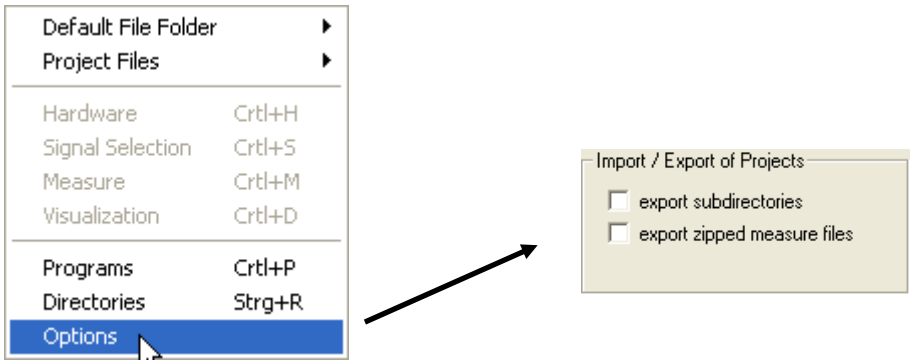


In a „File Open“ dialog box you can select a existing **exported MM6x project** (*.ZIP).

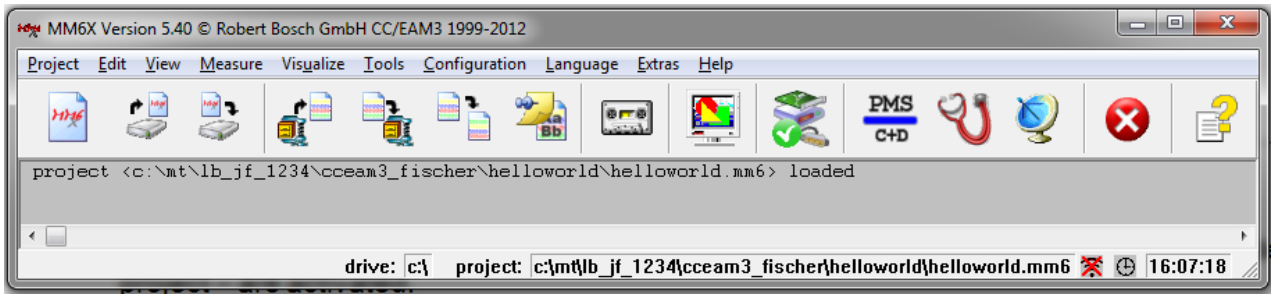


You have the possibility to export a MM6x project in a ZIP file to transfer it to another computer, including the same directory structure than the original project.
You can take transfer mediums like USB stick, ...

Optionally you can activate **„include project subdirectories“** and **„include zipped measures“**

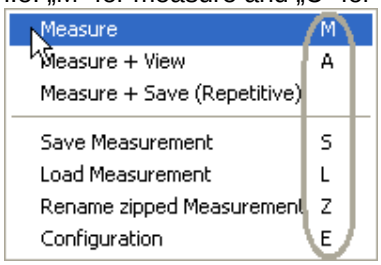


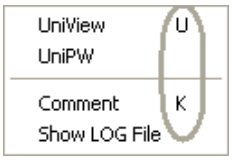
After creating (see extra documents) or opening of a MM6x project, all menu items – needed for the actual project – are activated.

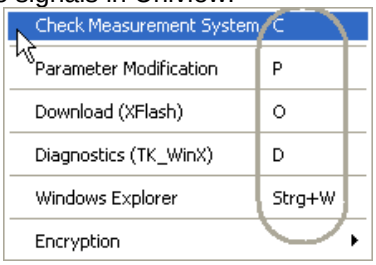


In the statusbar the actual project type (XCP) and name is shown.

The fastest way to use menu functions is pressing the Hotkeys, shown in the menu item list:
i.e. „M“ for measure and „U“ for visualize the measure signals in Uniview:





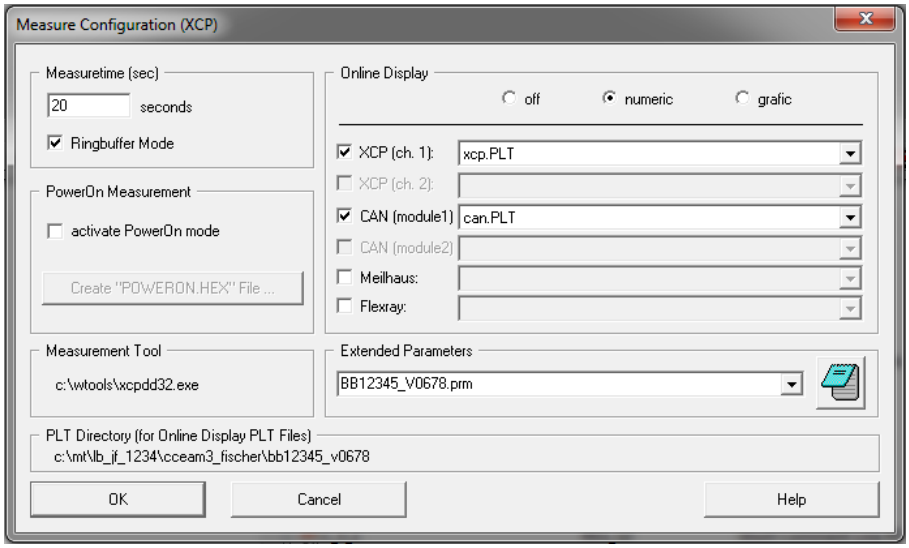


First step after creating or opening a project is to „check measurement system“ (key „C“):

If the communication to the ECU is ok, you can begin to start measure (key „M“):

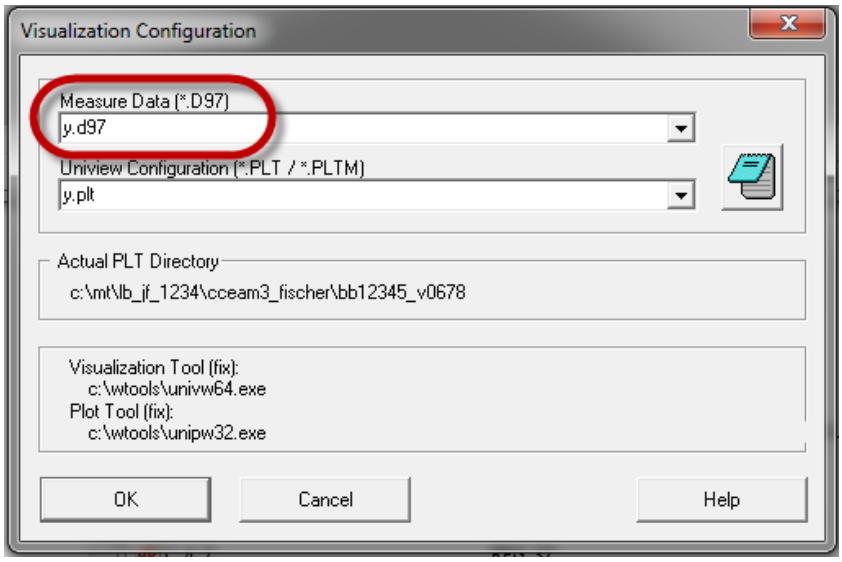
Pressing this key opens the project specific measurement tool which is implemented as separate program. MM6x is using the Windows COM feature to communicate to the measurement tools.

In the „Measurement Configuration“ dialog (key „Strg + M“) you can configure the measurement time and mode. Standard mode is „ringbuffer“, that means the last „measurement time“ i.e. 20sec is stored.



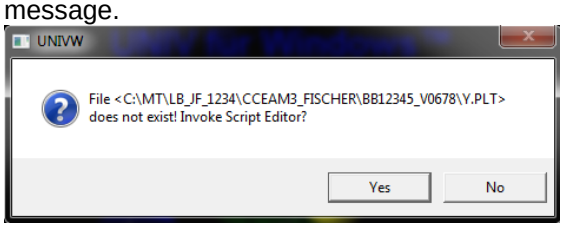
If „ringbuffer“ is deactivated, measuring ends after „measurement time“ automatically.
Additionally you can define a graphic or numeric online display using PLT files (created by Uniview).
Each selected hardware channel needs its own PLT script.
It’s also possible to define extended parameters like start- and stoptrigger, etc.
Therefore you have to edit the project specific „<project>.prm“ file.

Press any key to stop the measurement.
The measured signals are stored as D97 file, defined in the visualization configuration:



Defaultname is „y.d97“. You can also define another D97 name.

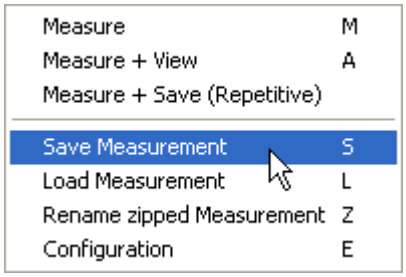
The „y.plt“ file is necessary for the Uniview configuration. At the first time, starting Uniview, you will get thIS message.



Pressing „YES“ starts the Uniview PLT Script Editor. Using this editor, you can select a subset of signals (and set attributes like color, min, max, etc.) from the D97 file and store it in a PLT script.
Useful is to take the default name „y.plt“ or build different PLT files for different signal groups.

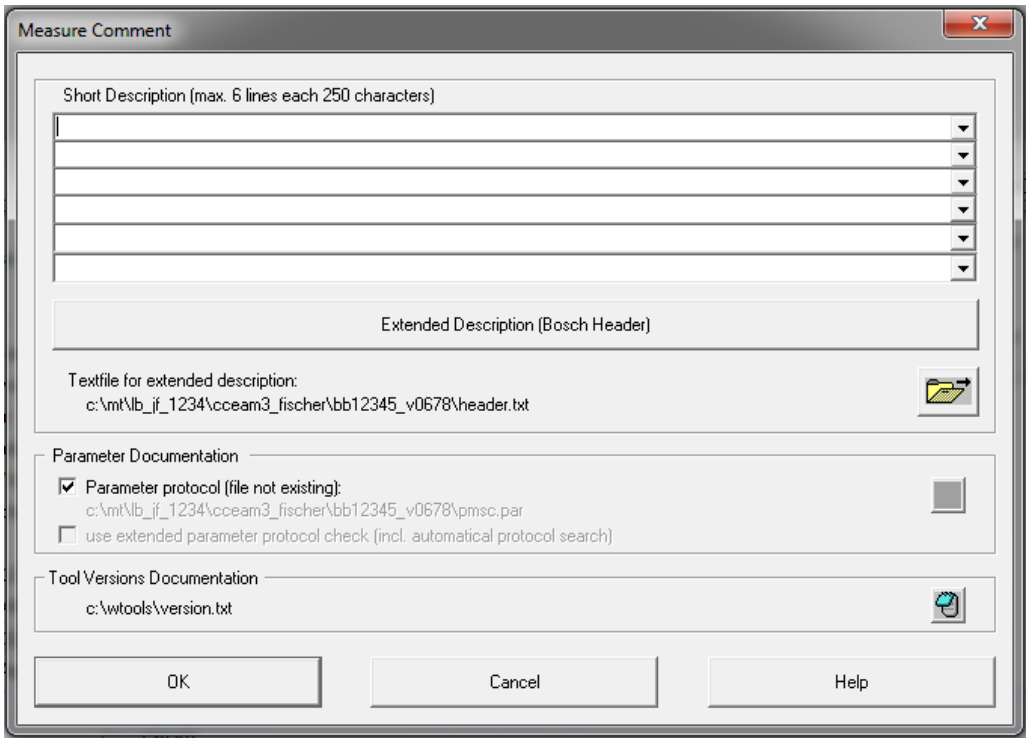
It’s also possible to combine the „Measure“ (key „M“) and „UniView“ (key „U“) functions, so after stopping the measurement, Uniview automatically came up.

If the D97 file is ok, you can save it by pressing the key „S“ or by:



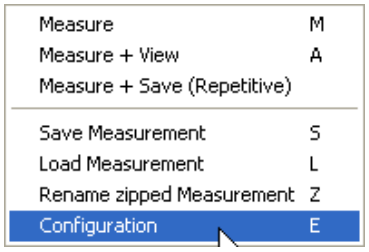
or

MM6x asks you for a measurement comment ...

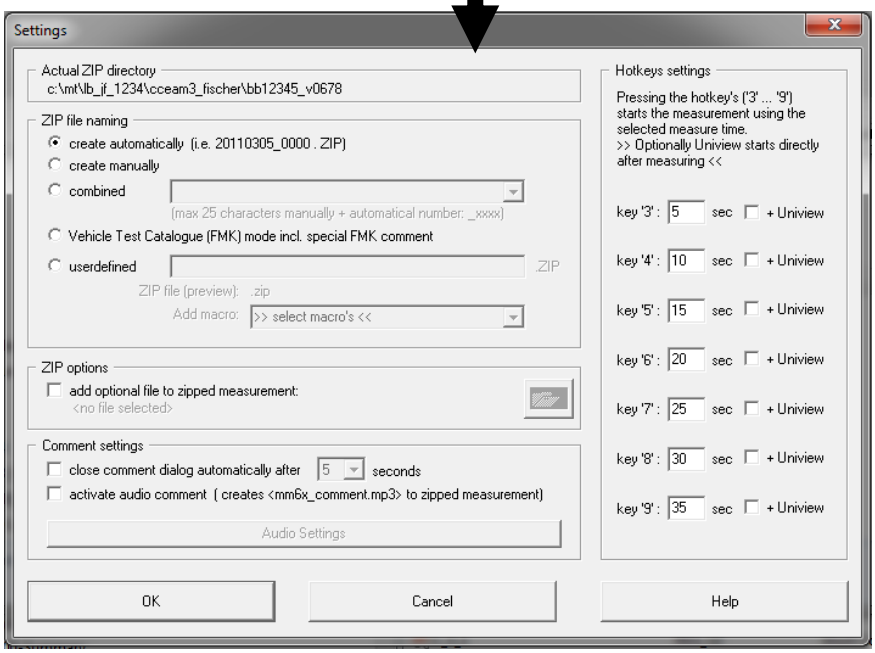


.. than the actual measure file and the configuration is stored to an auto generated ZIP archive.

Use the „Configuration“ item to change the „Measurement“ settings:



or



Its possible to create different kinds of ZIP file names:

→ “create automatically” … name based on year, month, day and 4 sign number (“20101123_0000.zip”)

→ “create manually” … name can be freely defined (max. 20 characters, no special signs)

→ “combined” … name consists of 15 char fix name, and automatic incremented number (“_xxxx”)

→ “Vehicle Test Catalogue” … special mode (Bosch internally used)

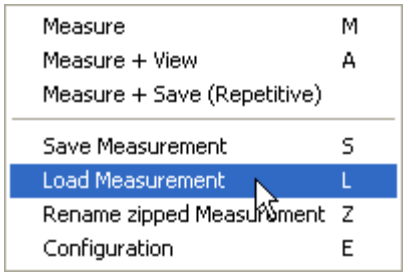
→ “usedefined” … ZIP name can be designed completely free supported by a set of macros.
The macros are translated on saving a measure file:

year (4 signs "2011")
year (2 signs "11")
month ("02")
day ("15")
hour ("15")
minute ("45")
second ("59")
num. counter (4 signs "0000")
num. counter (3 signs "000")
num. counter (2 signs "00")
num. counter (1 sign "0")
input element (free text)

It’s also possible to add an extra file to the zipped measurement file (i.e any optional documentation)

For “free hand” measuring, it’s possible to speak the comment to a MP3 file. Activate therefore the “audio comment” checkbox in combination with “automatical closing the comment dialog”.
*** This feature requires installation of “TotalRecorder” audio software (demo at “c:\driver\audio”) ***

Use the „Load Measurement“ function to unzip a stored *.ZIP measurement file:



or

For more detailled information see the MM6x Help File or the Help file of the tool you want to get information for.