

## EVB90614 user manual

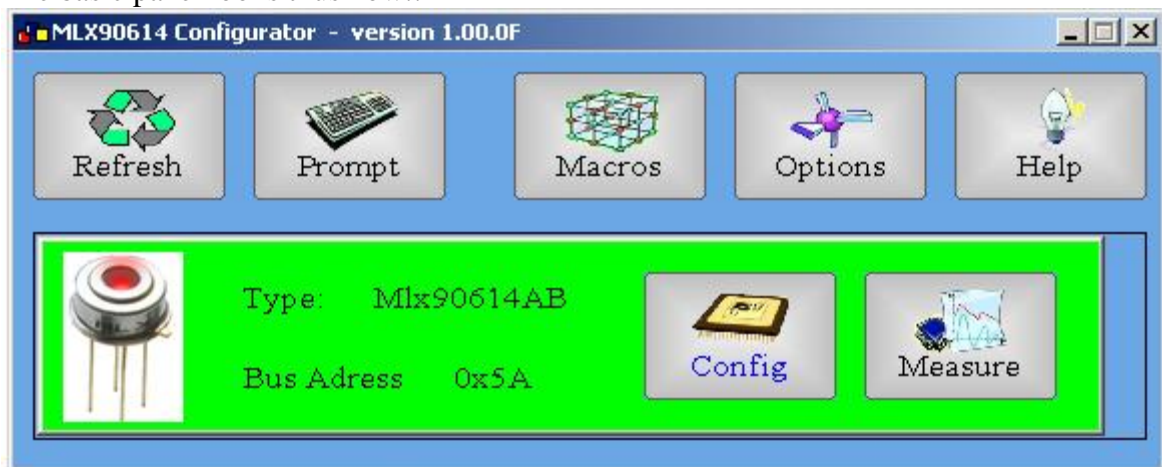
On the CD you find the Software for the USB evaluation board. Double click and follow the instructions to install.

The user license needs to be agreed 2 times for different parts of the used software. Use the typical installation.

The SW will be installed in a file "Melexis". You can start program from Start/Programs/Melexis/MLX Configurator.

**If module is set in PWM mode-push-pull ,yes it cannot go back to SMBus.  
If module is set to PWM mode-open drain,module can go back to SMBus mode.**

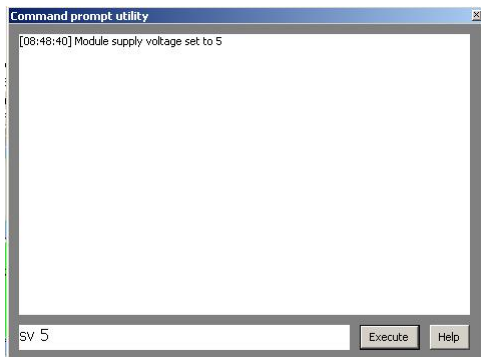
The basic panel looks thus now::



When USBEVB is attached to a usb port a LED on pcb board shines **BLUE**.

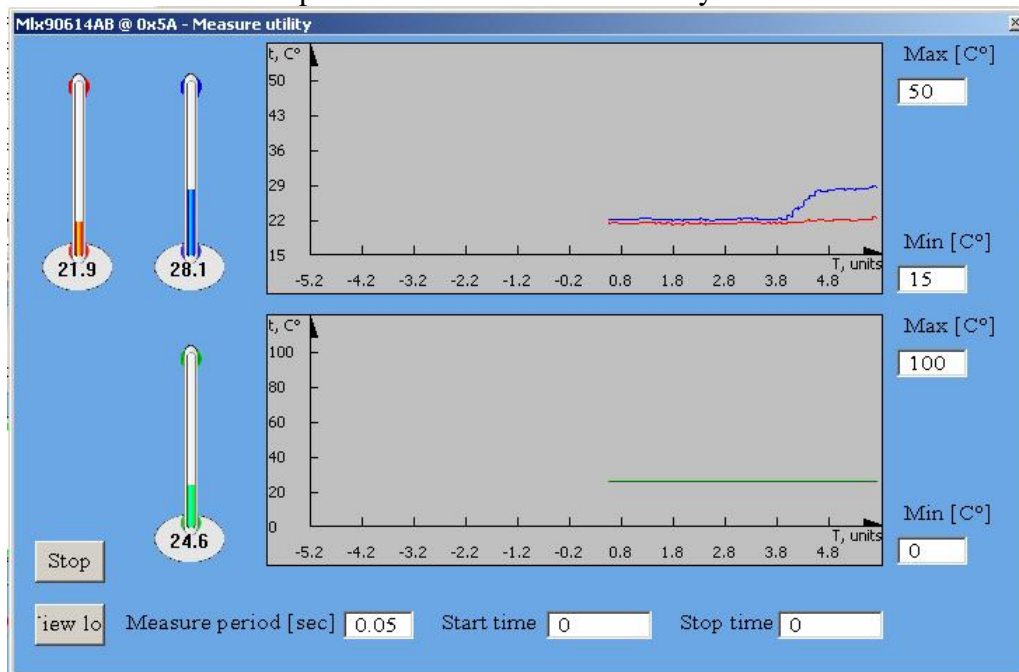
When start program the SW **automatically** recognizes the module type(single or dual zone) ,SMBus address and power supply(3 or 5 Volts) and turns on it and the LED shines **GREEN**.

If no module presents the LED shines **RED**, power supply is turn off in this case. When you insert a module, push the button **Refresh** (The program checks the module version and when recognizes it, power supply is turned on) .



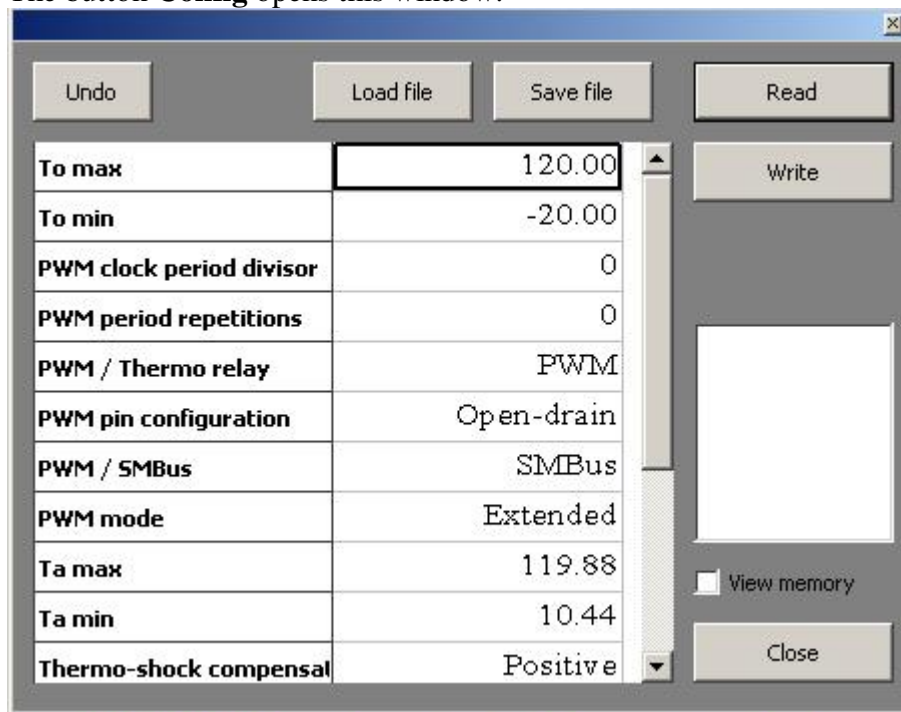
The button **Prompt** opens a window from which you can manually send commands to USBEVB. The commands supported by USBEVB you can find in attachments (PromtComands.xls).

The button **Measure** opens a window "Measure utility"



The red and blue thermometers shows object temperatures  $T_{o1}$  and  $T_{o2}$  respectively for dual zone modules. For single zone modules only one thermometer should presents. The green thermometer shows ambient temperature. Push the button **Start** to begin measuring. When the measuring is started, RAM addresses 0x03 till 0x8 will be automatically acquired in a file log.csv. The button **View log** opens the log .csv file. In **Min,Max** fields you can rescale the graphics

The button **Config** opens this window.



Push the button **Read** to read all EEPROM memory. Put a tick in **View memory** field to see all EEPROM memory in hex view.

**Here it is possible to make changes in EEPROM ( 9 cells for application mode and 17 cells in calibration mode).**

**Calibration mode is entered by prompt command cm.**

If you made some changes in EEPROM you can write them to the module if you just push button **Write** .

With buttons **Save file** and **Load file** you can preserve all EEPROM memory on the PC hard disk and load it again respectively.

The button **Undo** DOES NOT work for now.

The buttons **Macros**, **Options** and **Help** on the basic panel don't work yet

**It is good practice before made any change in EEPROM to save EEPROM contents for any case**