

# Current Sensor 2 Go – Quick Instruction Guide

#### Scope:

The following instruction gives a quick overview about the Current Sensor 2 Go GUI. The GUI can also be used for the PGSISI-2 based TLI4970050 PROG-KIT.

#### **SW Installation:**

Start the *Infineon-V2.0 GUI for Current Sensor 2GO-FW-V2.0-EN* Windows Installer Package (make sure you have at least local admin rights).

岃 TLI4970 Evalkit Software 2.0.0 Setup	
Welcome to the TLI4970 Evalkit Software 2.0.0 Setup	infineon
The installer will guide you through the steps required to install T your computer.	'LI4970 Evalkit Software 2.0.0 on
WARNING: This computer program is protected by copyright law Unauthorized duplication or distribution of this program, or any p civil or criminal penalties, and will be prosecuted to the maximum	and international treaties. portion of it, may result in severe extent possible under the law.
Cancel	< Back Next >



To start the installation process, you have to accept the license agreement:

討 TLI4970 Evalkit Software 2.0.0 Setup	
License Agreement	infineon
Please take a moment to read the license agreement r Accept", then "Next". Otherwise click "Cancel".	ow. If you accept the terms below, click "I
Important Note and Terms of	f Use
Please read the following important note as a conditions carefully. The extraction of the do the installation of the downloaded software is such terms and conditions. By clicking the a below, you agree to have read the important bound by the following terms of use. If you d conditions below, click the button "I do not a procedure will not be started.	well as the following terms and wnloaded documents as well as a only possible if you agree to acceptance button "I agree" note set forth below and to be o not agree to the terms and gree" and the installation
Print	ancel < Back Next >

The installation folder dialog is used to allow the user to choose the folder where application files will be installed:



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#### Confirm the installation process:

B TLI4970 Evalkit Software 2.0.0 Setup	- • •
Confirm Installation	infineon
Click "Install" to begin the installation. Click "Back" to revi settings. Click "Cancel" to exit the wizard.	ew or change any of your installation
Cano	el < Back Install

Following dialog box will be shown after successfully installation of the Current Sensor 2 Go GUI:



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In case the SEGGER / J-Link software package has not been installed before, please follow the SEGGER installer:





# Use of the Current Sensor 2 Go GUI

After successfully installation of the SW, you will find the *TLI4970 Evalkit Software* Program in the *Microsoft Start Menu*.

Programs (2)	
TLI4970 Evalkit Software	

After connecting the Current Sensor 2 Go Kit with your PC (please uses a USB connection cable; not included in the kit) and starting the SW, you first might have to flash the  $\mu$ C by pressing the *Flash XMC* button:

🖾 Evalkit for Current Sensors	
Sensor Help Flash XMC	
Evaluation Kit for Current Sensors	Cinfineon
Programmer	

Note: If the correct firmware version is flashed, the Flash XMC button is not visible.

Please select the connected kit (in case no kit is listed, use the refresh button . Afterwards, please press the connection icon.

Evalkit for Current Sensors		
Sensor Help		
E	Evaluation Kit for Current Sensors	infineon
Programmer PGSISI2: 22010028 XMC2Co on: COM26		

*Note: The use of the TLI4970050 PROG-KIT together with this GUI version is also possible!* Current Sensor 2 Go – Quick Instruction Guide V2.0 Page 5



Now the sensor has to be selected from the Sensor drop-down menu:

XMC2Go on: COM26		
Sensor Help		
	Evaluation Kit for Current Sensors	Cinfineon
Programmer PGSISI2: 22010028 ->XMC2Go on: COM28 Sensor TL4970-D05074 None TL4970-D05074		

By pressing the start button, the GUI will show the current value as a kind of oscilloscope functionality:



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## **SENSOR Menu**

Inside the Sensor Menu, you will find three submenus

- EEPROM Register
- Interfaces
- Set EEPROM Timing

## **EEPROM Register**

The *EEPROM Register* menu item shows the content of the current sensor EEPROM content. Also this functionality can be used for EEPROM programming (e.g. modification of the over current level):

TLI4970	15 14														
Reserved0 HP PR LP_SETTING	0 0 0 0 0 0 0 0	13 0 0 0 0	12 0 0 0 0	11 0 0 0 0	10 0 0 0	9 0 0 0	8 1 1 1 1	7 0 0 0	6 0 0 0	5 1 1 1 1	4 0 0 0	3 0 0 0	2 1 1 1 1	1 1 1 1 1	0         Hexadecimal           1         0x0001           1         Decimal           1         1
… INVERT_HADC     … Reserved1     … IC_STAT     … Register 1	0 0 0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 1 1	0 0 0	0 0 0	1 1 1	0 0 0	0 0 0	1 1 1	1 1 1	1 1 1
Register 13     Register 14     Register 15	Burn		Pass	-	Sec	tin									

*Note: To program the EEPROM, you have to provide a 20.6V voltage supply to the "P" contact (GND reference has to be connected with the GND contact):* 





#### Interfaces

The Interfaces menu item opens a window for a single command based SICI communication:

SICI Interface	
Data to send [hex]	Dx .
received data [hex]	0x
Sen	id Close
6	

## **Set EEPROM Timing**

The *Set EEPROM Timing* menu item gives the possibility to influence the time of the internal programming pulse. For further information please reference to the "How to Program TLI4970 – Quick Instruction Guide".

C Timings	
EEPROM Progra	mming Timing
4	Set
	Close



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