

Simulyzer-Software Operating Help

tware (optional) up to 5 PSI5 bo

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three mandatory details as well as other optional details.

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/2.6.23

V2.6.1 V2.6.15 V2.6.8

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The software for our simulyzer boxes can be downloaded from our website without any problems. Here in the example this is illustrated with the PSI5 Simulyzer software. For any other software this process is identical. First go to https://www.seskion.de/produkte/ to select your hardware or software. If your ave then selected one of our products, you will find the following overview on the page:

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Helpful link

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Registration

Der Computer wurde durch Windows

m ausführen

Nicht ausführen

aeschützt

If the Microsoft Defender should report, you can ignore it and select Run anyway.

Install the software as specified. A desktop link will be created automatically

All files can be found under: "C:\Program Files (x86)\SesKion GmbH SESKIO

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In order to be able to work with the Simulyzer software, a new project must be created at the beginning after connecting the Simulyzer and the sensor. To do this, use the menu group File and the command New and New Project. Which version your PSI5 sensor has you can read in the features from the manual of the respective sensor. In this example a NXP sensor of XU the MMA52xxKW family with a PSI5-P10P-500-3L compatibility is used.

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Shortcut: Moving the graphical measurement

If the Analog Display or Sensor Signals is selected and you are inside the diagram with your mouse, you can hold down CTRL to get a hand with which you can move the diagram back and forth as you like

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	Channel 0 Channel 1 Common	
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	Bus Parameter	
	Baudrate Baudrate Baudrate S	
	BaudratePosDeviatic 5	4
	DaisyChainMode False	
	DataTriggerLevel 25	
	Data InggerLevelOtt 13	
	IdeCurrentTracking, Faise	
	InitPhase1 65	
	LineCapacity Off	
	MaxInTMTErmation 5	
	MessageToMessage 500	
	QuiescentCurrentSe 5000	
	Supply Voltage 0000	
	SyncTriggerLevel 6500	
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Sensor Data	>	<) <u> </u>						- 4 C
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19883822	9	0x43	0x0	0x0	1	0x43		
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19883322	0	0xa2	0x0	0x0	1	0xa2		
19883322	0			Sig1	0xa2		(
19882822	0	0x1e1	0x0	0x0	1	0x1e1		
19882191	0	0xb2aa226	0	0x0				
16958037	0	0x0	0x0	0x0	0	0x0	\wedge	
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16957537	0	0xf	0x0	0x0	0	0xf		
16957537	0			Sig1	0xf	~~		
16957036	0	0x1e1	0x0	0x0	1 X	0xre1		
16956405	0	0xb2ab22e	0	0x0	U.L.	>		
16926537	0	0xa	0x0	0x0	0	0xa		
16926537	0			Sig	0xa			
16926037	0	0xf	0x0	0x0		0xf		
16926037	0		X	SUC	0xf			
16925536	0	0x1e1	0x0	0x0	1	0x1e1		

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Scaling Data

To get the correct conversion of the displayed LSB (least significant bit) you have to look into the sensor specification first. In the specification the conversion can be found under the sensitivity. In our example the sensor is in normal mode, i.e. in a +-60g range. The table shows that 8 LSB correspond to one g (8LSB = 1g).

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#	Characteristic	Symbol	Min	Тур	Max	Units
	Sensitivity (10-bit output @ 100 Hz, referenced to 0 Hz)				$\langle A \rangle_{i}$	/
54	±60g Range *	SENS	-	8		LSB/g
55	±120g Range *	SENS	-	4 1		LSB/g
56	±240g Range *	SENS	-	2	-61	LSB/g
57	* ±480g Range	SENS	-	1	k'´−	LSB/g
				The second se	l>	

Now you can set the correct parameters in the software so that the physical values can be seen. For this you go in the left column under Sensor Signals to the Signals (Sig1, Sig2 or Sig3). There you can adjust and modify some details. In our case we need the Scale. Here is always 1LSB entered. And because we know from the sensor specification that 8LSB = 1g, we have to enter 1/8 respectively 0,125 there.

In addition, the two points TextDisplay can now be changed to dec and the Unit can be changed to g. Finally you can see the changed values in the graph of the Sensor Signals.



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