

How to inject PSI5 Sensor Data via CAN -Seskion GmbH--Seskion GmbH Content: Test setup: CAN – Simulyzer Sensor-Mode – Simulyzer ECU-Mode Description: CAN – Simulyzer Sensor-Mode – Simulyzer ECU-Mode Test setup: CAN – Simulyzer Sensor-Mode – Simulyzer ECU-Mode

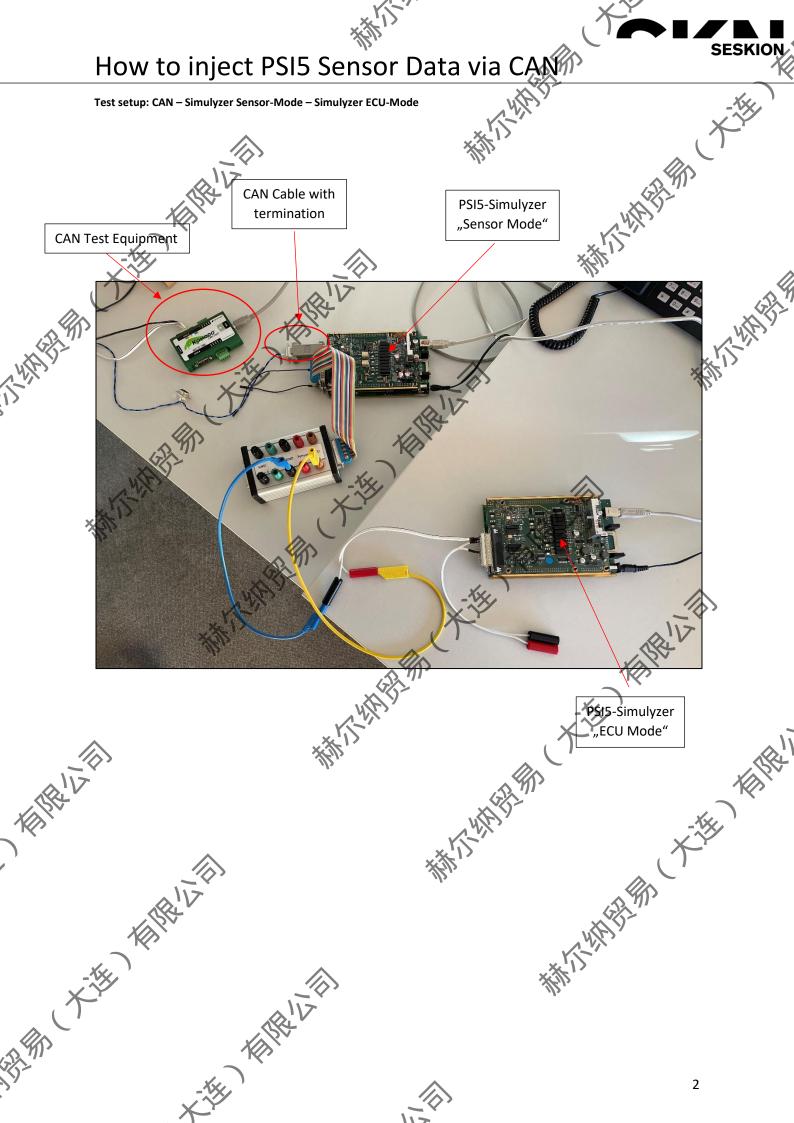
- Description: CAN Simulyzer Sensor-Mode Simulyzer ECU-Mode
- Test setup: CAN Simulyzer ECU-Mode Simulyzer Sensor-Mode
- 据形型版》。 本語 - THE WARRENCE OF THE STATE OF Description: CAN – Simulyzer ECU-Mode – Simulyzer Sensor-Mode

(1.0) 09.11.2021 - Creation

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How to inject PSI5 Sensor Data via CAN Test setup: CAN – Simulyzer Sensor-Mode – Simulyzer ECU-Mode



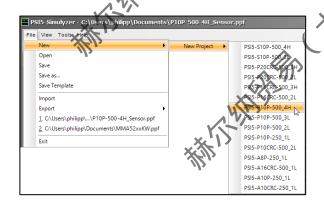
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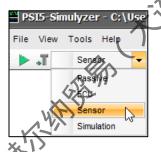
How to inject PSI5 Sensor Data via CANO

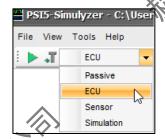
CAN - Simulyzer Sensor-Mode - Simulyzer ECU-Mode

First of all you have to connect the two simulyzers and start the GUI software twice. With both windows open, you must click on the menu group File and select the sub-items New and New Project. Here you can set the compatibility. In our example we have created this with the PSI5-P10P-500_4H compatibility.



When you have opened the new projects in both open software applications, you have to set the connected Sensor simulyzer as **Sensor** and the other simulyzer as **ECU**.



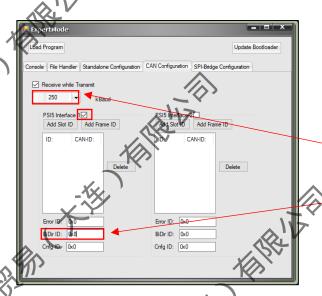


Next you have to select **Tools** in the sensor software and go to **Expert Mode** and then to **CAN Configuration**.



Now you have to transfer the values in your CAN Test Software GUI into the CAN Configuration so that they match. The kBaud/kHz and the CAN ID/BiDir ID must be the same in both configurations. In Expert mode you have to check the PSI5-Interface 1 checkbox and enter "8" in the DLC field of the CAN Test-Software GUI. We support only 4 slots with a maximum bit length of 16 bit, coded in Little Endien. The slots are 16 bit aligned.

Offset





9A 00 DE 00

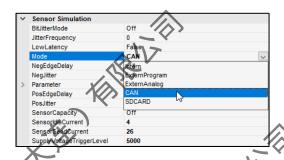


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For the CAN communication to work, the mode must be changed from Internal to **CAN** in the left settings under Sensor Simulation.

Sensor Simulation

Bit litterMode Off
JitterFrequency 0

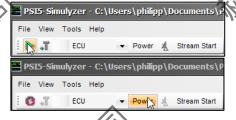


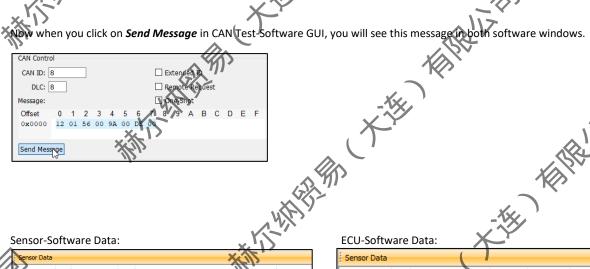
Now you can click on the *green arrow* in the sensor software and in the ECU software also on the *green arrow* and additionally on Power.

Sensor-Mode Software:



ECU-Mode Software

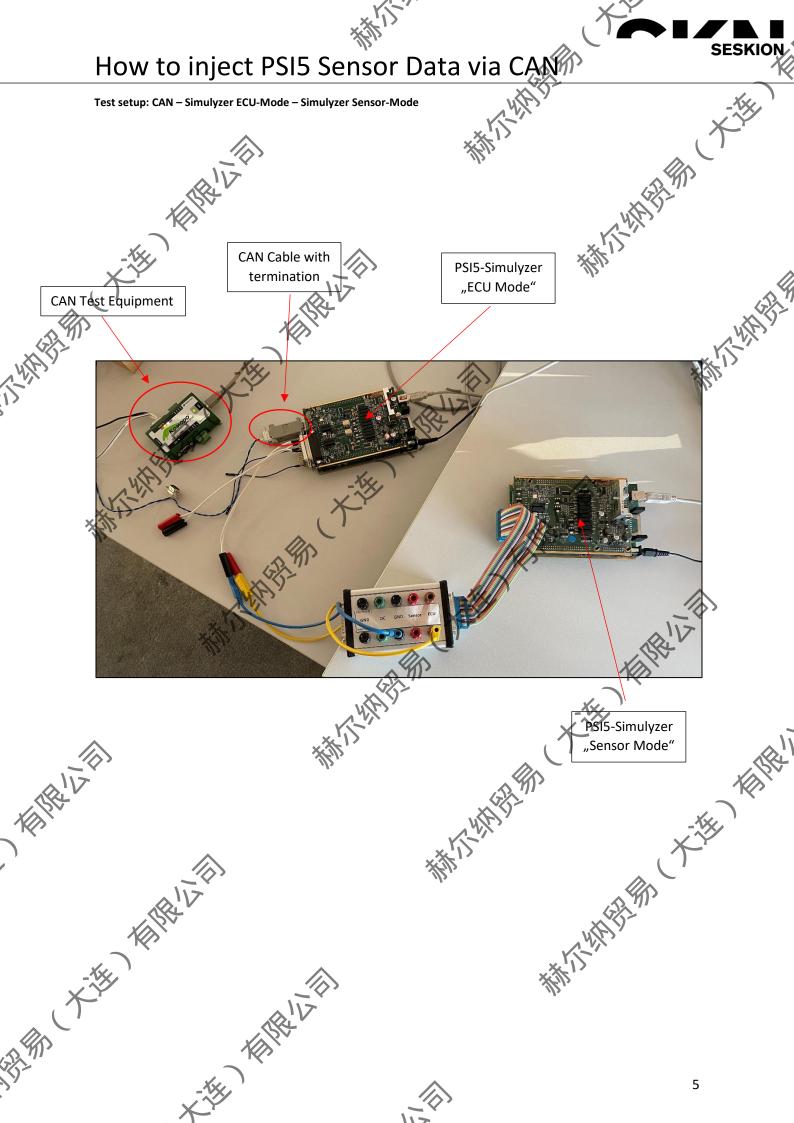




| Sensor Data | | | | | 711 X | |
|-------------|---|--|--|--|---|--|
| Time [µsec] | Ch | Data | Slot | Error | Parity/C | dataRegA |
| 162703515 | 0 | Sync | | | | |
| 162703453 | 0 | 0xde | 0x3 | 0x0 | 0 | 0xde |
| 162703453 | 0 | | | Sig4 | 0xde | |
| 162703336 | 0 | 0x9a | 0x2 | | 0 | 0x9a |
| 162703336 | 0 | | | Sig3 | 0x9a | |
| | | 0x56 | 0x1 | | | 0x56 |
| | | | | | | |
| | | 0x112 | 0x0 | | | 0x112 |
| 162703138 | 0 | | | Sig1 | 0x112 | |
| × X | | 2~ | X, | E TENSELLE | | |
| | Time [µsec] 162703515 162703453 162703453 162703336 | Time [µsec] Ch 162703515 0 162703453 0 162703453 0 162703336 0 162703336 0 162703229 0 162703138 0 | Time [µsec] Ch Data 162703515 0 Sync 162703453 0 0xde 162703453 0 0x9a 162703336 0 0x9a 162703329 0 0x56 162703229 0 162703138 0 0x112 | Time [µsec] Ch Data Slot 162703515 0 Sync 162703453 0 0xde 0x3 162703336 0 0x56 0x1 162703229 0 0x56 0x1 162703229 0 162703138 0 0x112 0x0 | Time [µsec] Ch Data Slot Error 162703515 0 Sync 162703453 0 0xde 0x3 0x0 162703453 0 0x9a 0x2 0x0 162703336 0 0x9a 0x2 0x0 162703336 0 0x56 0x1 0x0 162703229 0 0x56 0x1 0x0 162703138 0 0x112 0x0 0x0 | Time [µsec] Ch Data Slot Error Parity/C 162703515 0 Sync 162703453 0 0xde 0x3 0x0 0 162703453 0 0x9a 0x2 0x0 0 162703336 0 0x9a 0x2 0x0 0 162703336 0 0x56 0x1 0x0 0 162703229 0 0x56 0x1 0x0 0 162703138 0 0x112 0x0 0x0 1 |

| ECU-Softw | vare | Data: | × | -** | | | |
|-------------|------|-------|------|-------|----------|------------|-------------|
| Sensor Data | | (| | | | ф П | <i>♠</i> . |
| Time [µsec] | Ch | Data | Slot | Error | Parity/C | dataRegA | 186 |
| 8155637 | 1 | Sync | | | | | X()) |
| 8155635 | 0 4 | Symb | | | | | 14 |
| 8155574 | X | 0xde | 0x3 | 0x0 | 0 | 0xde | Z.) |
| 8155574 | N. | > | | Sig4 | 0xde | _ | 1 X/ |
| 8155457 | 0 | 0x9a | 0x2 | 0x0 | 0 | 0x9a | Y |
| 8155457 | 0 | | | Sig3 | 0x9a | | -1 |
| \$1553E0 | 0 | 0x56 | 0x1 | 0x0 | 0 | 0x56 | |
| 8462320 | 0 | | | Sig2 | 0x56 | | |
| 8155259 | 0 | 0x112 | 0x0 | 0x0 | 1 /// | 0x112 | |
| 8155259 | 0 | | | Sig1 | 0x112 | | |

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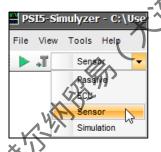
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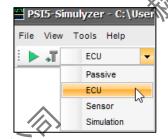
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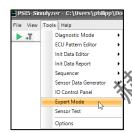
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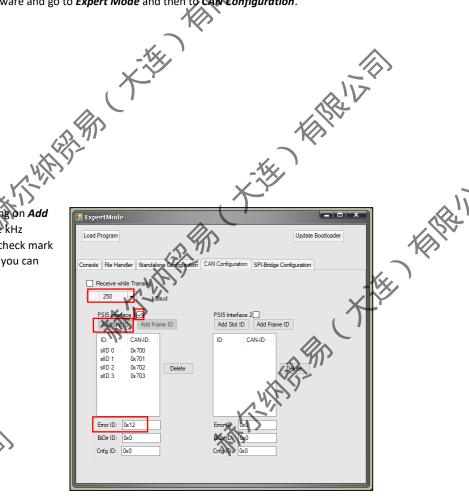


Next you have to select **Tools** in the sensor software and go to **Expert Mode** and then to **CAN Configuration**.

PSIS-Simulyzer - C:\Users\philipp\Uo
File \text{View Tools Help}
Diagnostic Mode



Here you can assign up to four Slot IDs by clicking on **Add Slot ID**. The kBaud number must also match the kHz number in the CAN Test-Software GUI and the check mark for PSI Interface 1 must also be set. As Error ID you can enter a desired number.



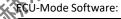


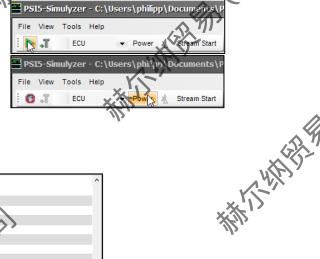


Now you can click on the *green arrow* in the sensor software and in the ECU software also on the *green arrow* and additionally on Power.

Sensor-Mode Software:







| | File View Tools He | Colusers philipp Docume | Start | wing responses: | PSI5-Simulyzer File View Tools PSI5-Simulyzer File View Tools ECU FILE View Tools | Help |
|---|---|--|--|---|---|------|
| THE REAL PROPERTY OF THE PARTY | m:s.ms.us 137:46.058.650 137:46.059.994 137:46.059.874 137:46.060.010 137:46.060.350 137:46.060.350 137:46.061.338 137:46.061.338 137:46.061.378 137:46.062.465 137:46.062.410 137:46.063.770 137:46.064.453 137:46.064.453 137:46.064.453 137:46.064.453 137:46.064.453 | ID | 00 00 00 00 00 00 00 00 00 00 00 00 00 | Data | 1 | |
| | | 0x700 0 4 58 04 00 0x701 0 4 59 00 00 | | Note the second | | |

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