

# NiLAB Starter

In order to check the status and to read and write a configuration without EtherCAT connection, it is possible to use the NiLAB Starter Commissioning tool.

With this tool you can write the control word, you read the status word, the PDO, PDI mapping and the CANOPEN baud rate.

This software can be downloaded here: [https://www.nilab.at/dokuwiki/doku.php?id=nilab\\_starter:start](https://www.nilab.at/dokuwiki/doku.php?id=nilab_starter:start)

The screenshot shows the 'NiLAB Starter Commissioning Tool - V2.4.0.0' interface. At the top, there are buttons for 'DISCONNECT FROM MOTOR', 'DOWNLOAD CONFIGURATION TO MOTOR', and 'UPLOAD CONFIGURATION FROM MOTOR'. The 'Target' is set to 'GTW-ETH' and 'FW' is '5880'. The 'Progress Bar' is at 0%. The 'COM' is 'COM9' and the 'MAC' is 'E0BE036F681A'. The main area is titled 'EtherCAT BUS CONVERTER' and contains a table of parameters:

Parameter	Value	Parameter	Value
0 Number of slaves	2	7 PDO1 address	24676
1 Sync time Can	2	8 PDO1 length	32
2 Sync time Can PDOs	25	9 PDO2 address	24641
3 Sync time modbus	100	10 PDO2 length	16
4 Can timeout	0	11 PDO3 address	24673
5 Modbus timeout	200	12 PDO3 length	8
6 Gateway Mode	0	13 PDO4 address	0
		14 PDO4 length	0
		15 PDI1 address	24769
		16 PDI1 length	32
		17 PDI2 address	24640
		18 PDI2 length	16
		19 PDI3 address	24672
		20 PDI3 length	8
		21 PDI4 address	0
		22 PDI4 length	0
		23 CanOPEN baudrate	1000
		252 EtherCAT VendorID	11495

Below the table are three buttons: 'Read Gateway Registers', 'Write Gateway Registers', and 'Write configuration to Flash'. On the left side, there is a 'STATUS' section with 'COM Link' and 'CURRENT SLAVE ID' (128), a 'RUNNING' indicator, and a 'FAULT RESET' button. Below that is a 'Digital input and output state' section with DGT IN/OUT indicators. At the bottom left, there is a 'Motor axis status' section showing 'Actual Position', 'Actual Speed', and 'Motor Current' for three axes (4634, 4632, 4128).

From: <https://www.nilab.at/dokuwiki/> - NiLAB GmbH Knowledgebase

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Last update: 2025/08/14 11:24

