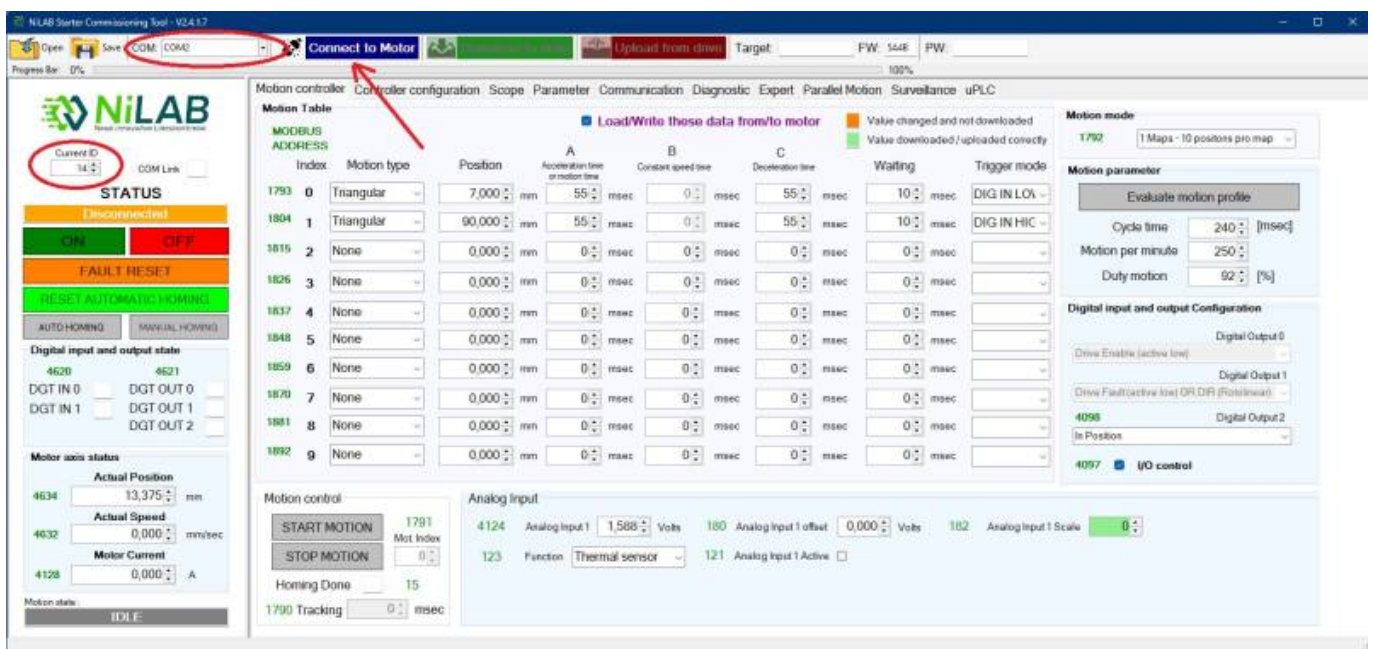


How to save and reload the configuration

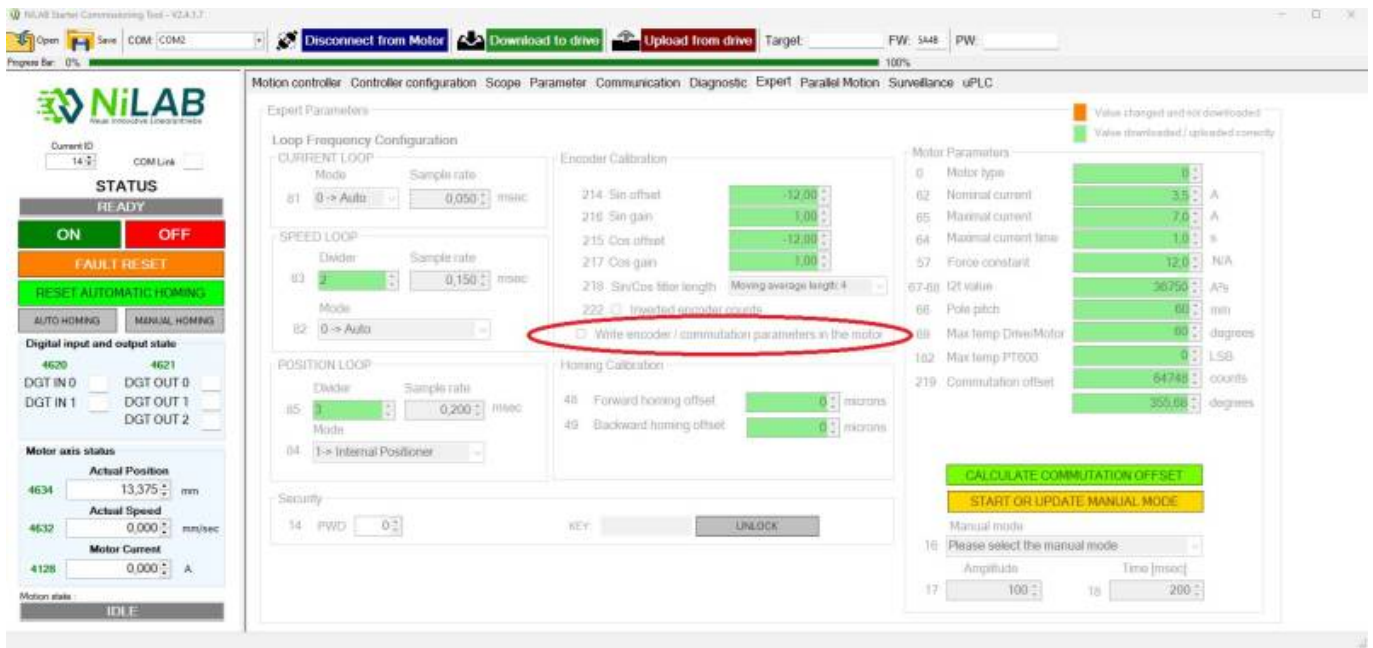
If one motor needs to be replaced with a new one while maintaining the same parameters (such as motion cycle characteristics and control type), follow these steps:

1. Disconnect the motor from the 24VDC and reconnect the motor waiting 5 seconds (you must see the leds blinking on the motor and then only the green led pulsing or blinking indicating the motor is ready to be used)

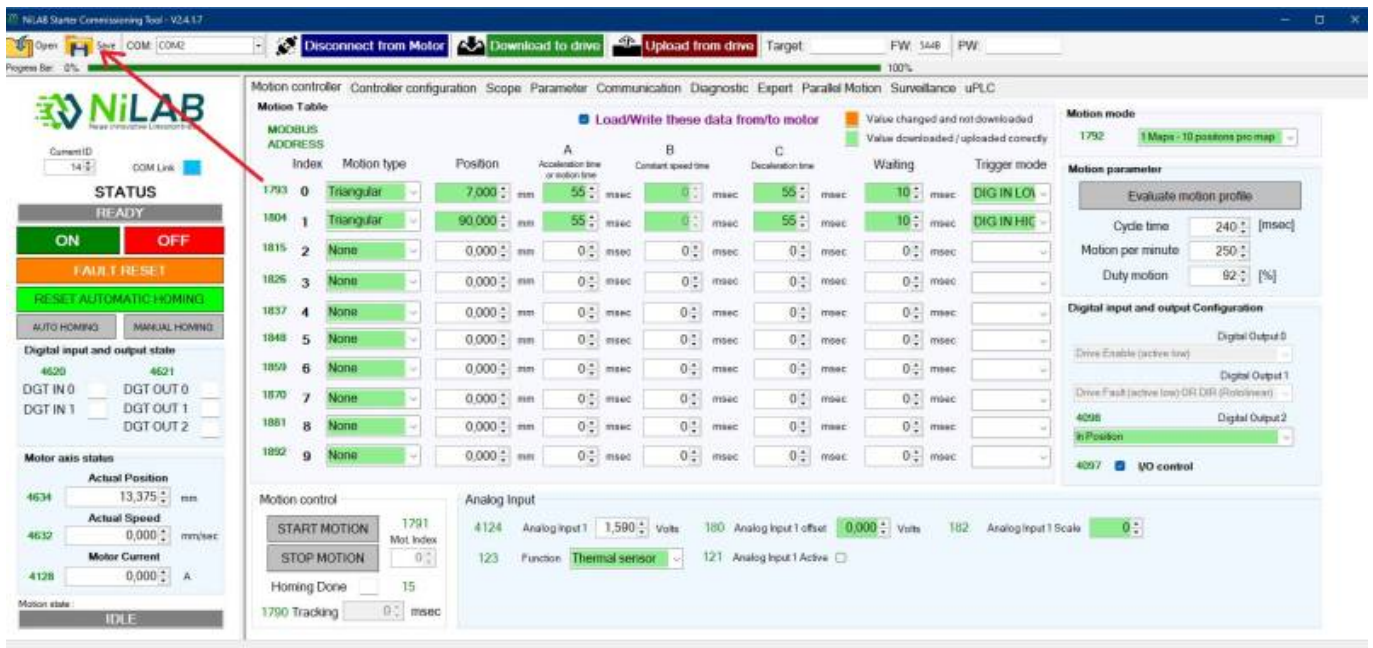
2. Launch a new session of the NiLAB Starter software. Select the right Current ID of the connected motor and the right COM port for communication using USB to RS485 adapter cable. In the example below the ID of the motor is 14, Please use the right ID of the motor. the default value to be used is the value = 1 . Please note that if you need to know the available motor with the relative ID number use the Communication window and the press the button Scan Modbus Nodes to see the list. Press the button connect to Motor to connect.



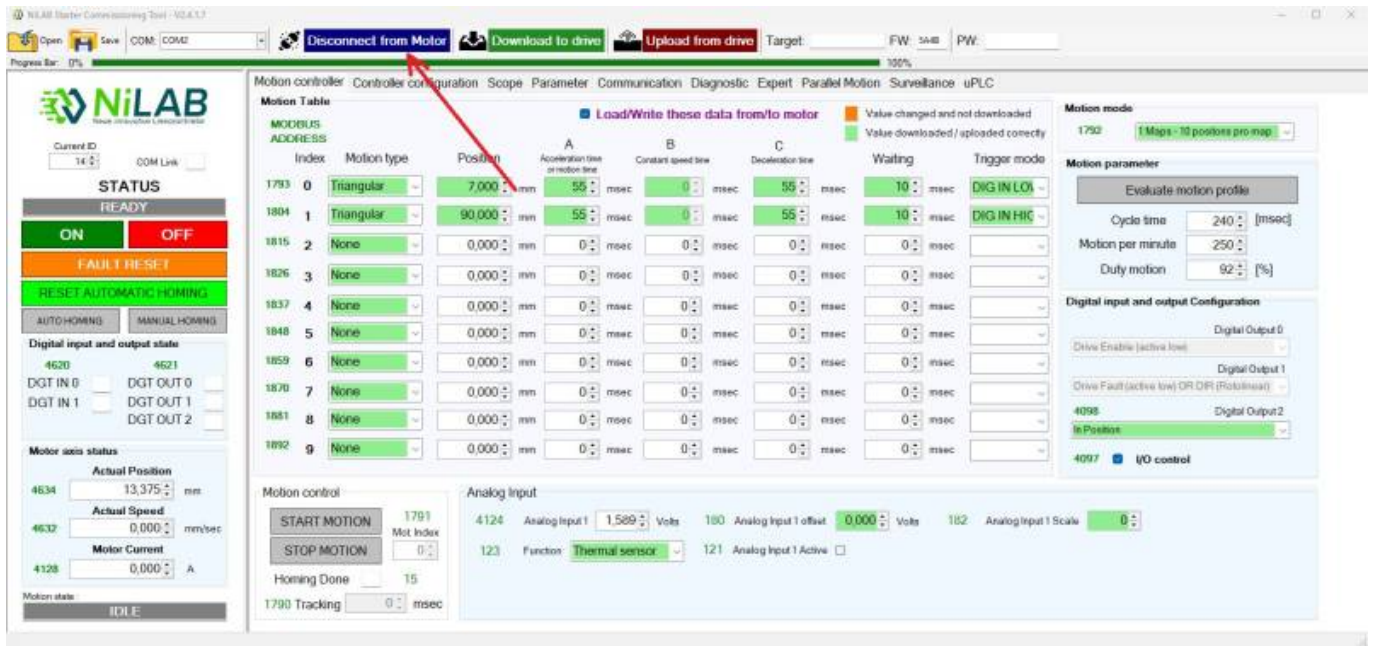
3. Please verify that the expert window is disabled and the write encoder / commutation parameters in the motor option is unchecked.



4. Connect to the motor to be replaced and the save the current configuration:

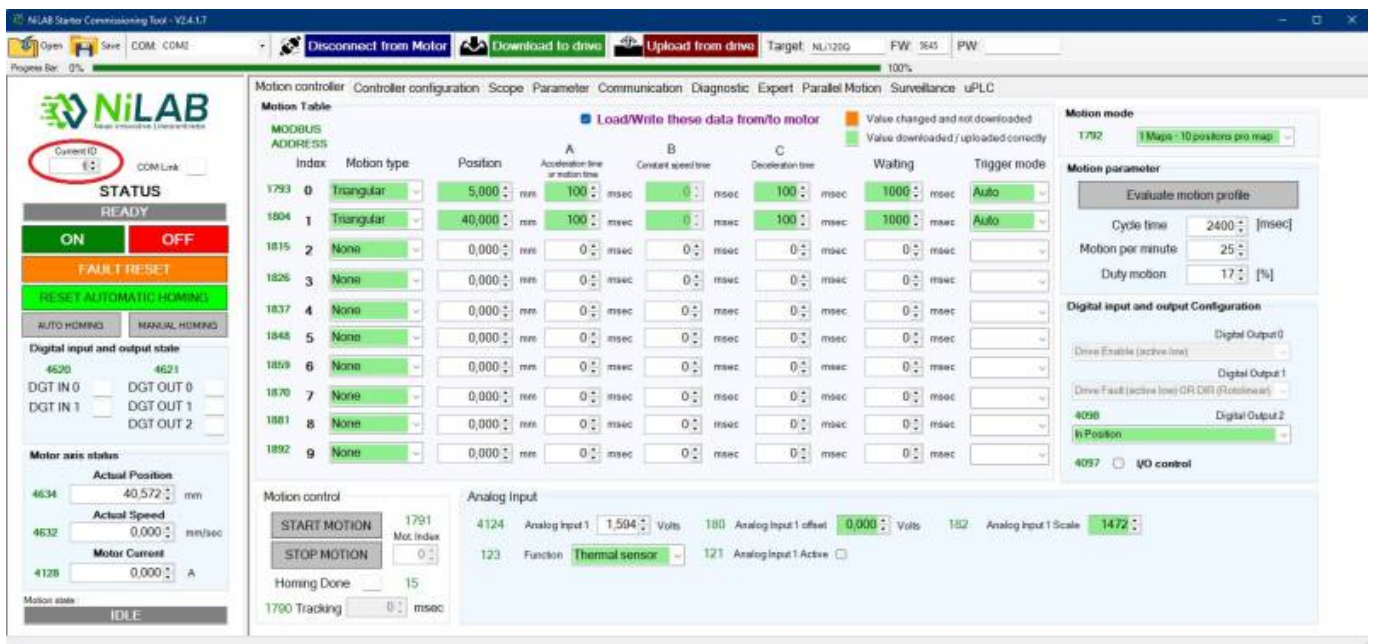


5. Disconnect the motor from NiLAB Starter pressing the button Disconnect the Motor



6. Now replace the selected motor with a new one and waiting the booting cycle of 5 seconds from the powerup.

7. Connect to the motor. Please take into account that a new motor as ID = 1. Change the current ID to 1 and connect pressing the Connect to Motor button



8. Load the configuration file you saved previously at the step 4 of this list.

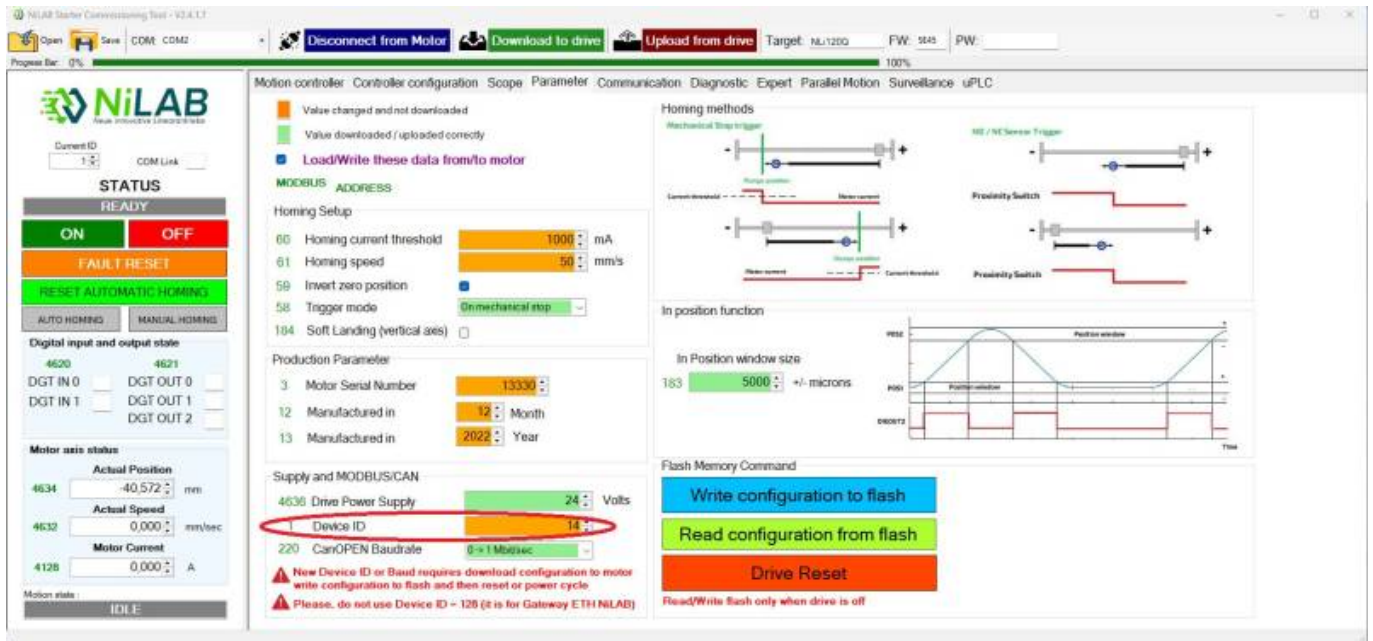
The screenshot shows the NiLAB Starter Commissioning Tool interface. The top bar includes buttons for 'Open', 'Save', 'COM: COM2', 'Disconnect from Motor', 'Download to drive', and 'Upload from drive'. The 'Target' is set to 'NLI1200', 'FW' to 'SE43', and 'PW' to an empty field. The 'Progress Bar' is at 0%. The main window is divided into several sections:

- STATUS:** Shows 'READY' with 'ON' and 'OFF' buttons, and 'FAULT RESET' and 'RESET AUTOMATIC HOMING' buttons.
- Digital input and output state:** Shows 'DGT IN 0' to 'DGT OUT 2' with 'AUTO HOMING' and 'MANUAL HOMING' buttons.
- Motor axis status:** Shows 'Actual Position' (40,572 mm), 'Actual Speed' (0,000 mm/sec), and 'Motor Current' (0,000 A).
- Motion Table:** A table with columns: Index, Motion type, Position, Acceleration time, Constant speed time, Deceleration time, Waiting, and Trigger mode. The first row (Index 0) is highlighted in orange.
- Motion control:** Includes 'START MOTION' and 'STOP MOTION' buttons, and 'Homing Done' and '1790 Tracking' fields.
- Analog Input:** Shows 'Analog Input 1' (1,594 Volts) and 'Analog Input 1 Scale' (1472).
- Motion mode:** Shows '1792' and '1 Maps - 10 positions per map'.
- Motion parameter:** Includes 'Evaluate motion profile', 'Cycle time' (2400 msec), 'Motion per minute' (25), and 'Duty motion' (17%).
- Digital input and output Configuration:** Shows 'Digital Output 0' to 'Digital Output 2' with 'Drive Enable' and 'Drive Fault' buttons.

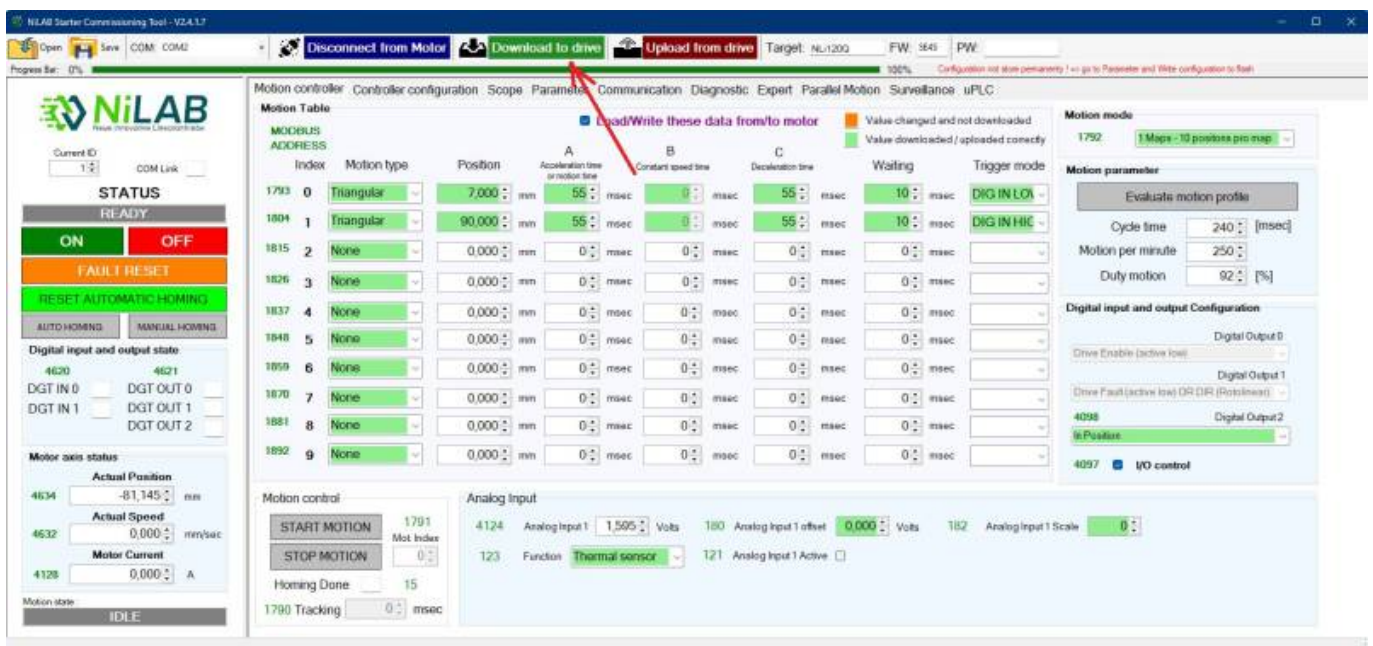
After loading the file all the differences are highlighted in orange color.

The screenshot shows the NiLAB Starter Commissioning Tool interface after loading a file. The 'Progress Bar' is now at 5%. The 'Motion Table' is updated, and the first row (Index 0) is highlighted in orange. The 'Motion mode' is now '1792' and '1 Maps - 10 positions per map'. The 'Motion parameter' section shows 'Cycle time' (240 msec), 'Motion per minute' (250), and 'Duty motion' (92%). The 'Digital input and output Configuration' section shows 'Digital Output 0' to 'Digital Output 2' with 'Drive Enable' and 'Drive Fault' buttons. The 'Analog Input' section shows 'Analog Input 1' (1,592 Volts) and 'Analog Input 1 Scale' (0).

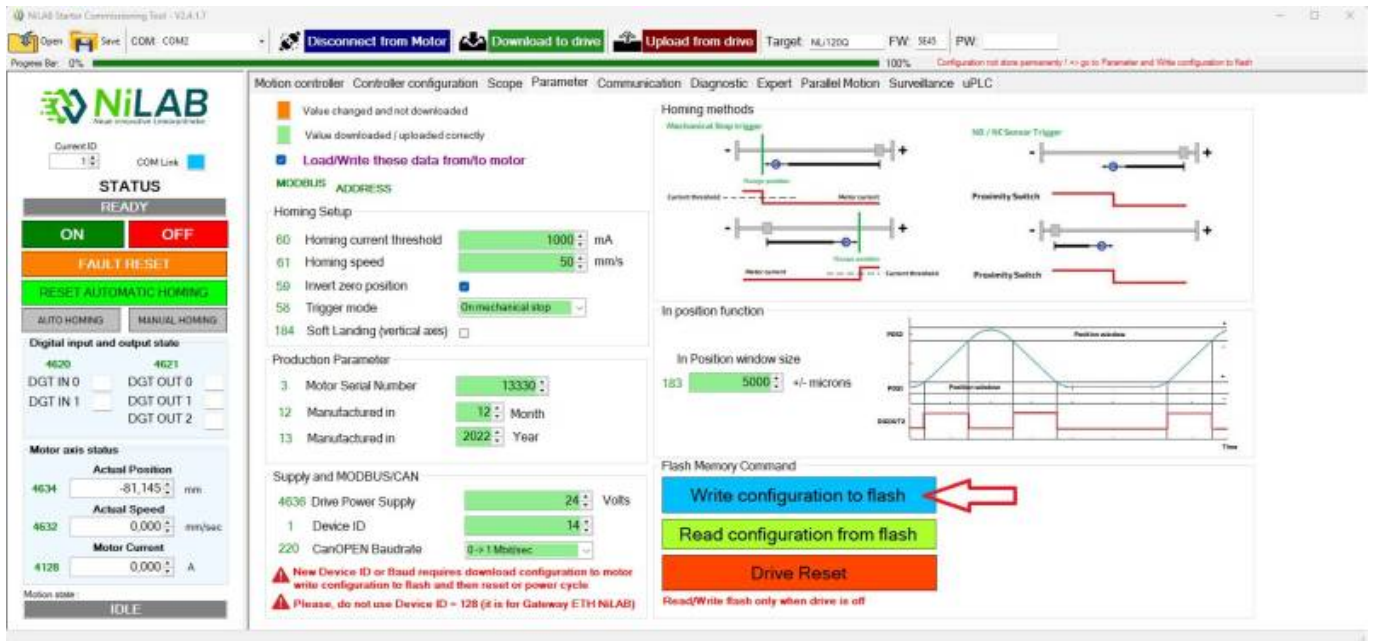
Please note that the Device ID is updated with the right one loaded from file.



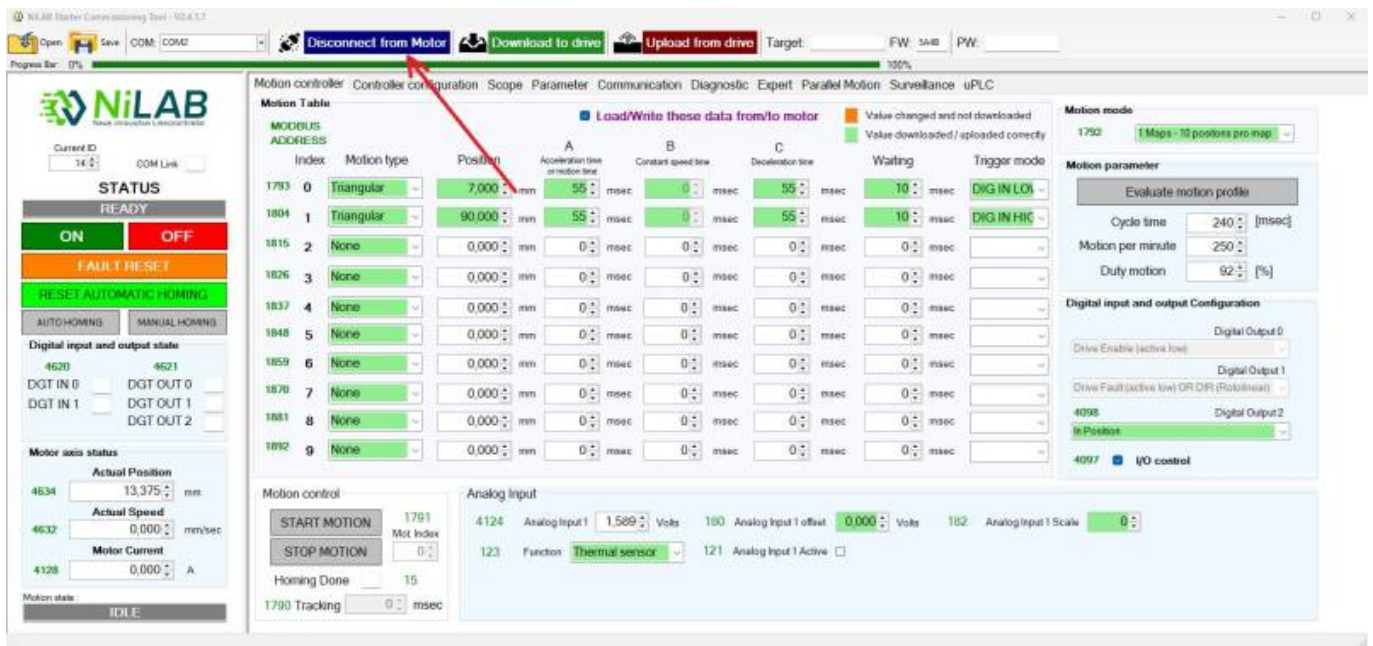
9. Download the configuration to the motor pressing Download to drive button and all the differences change to green color.



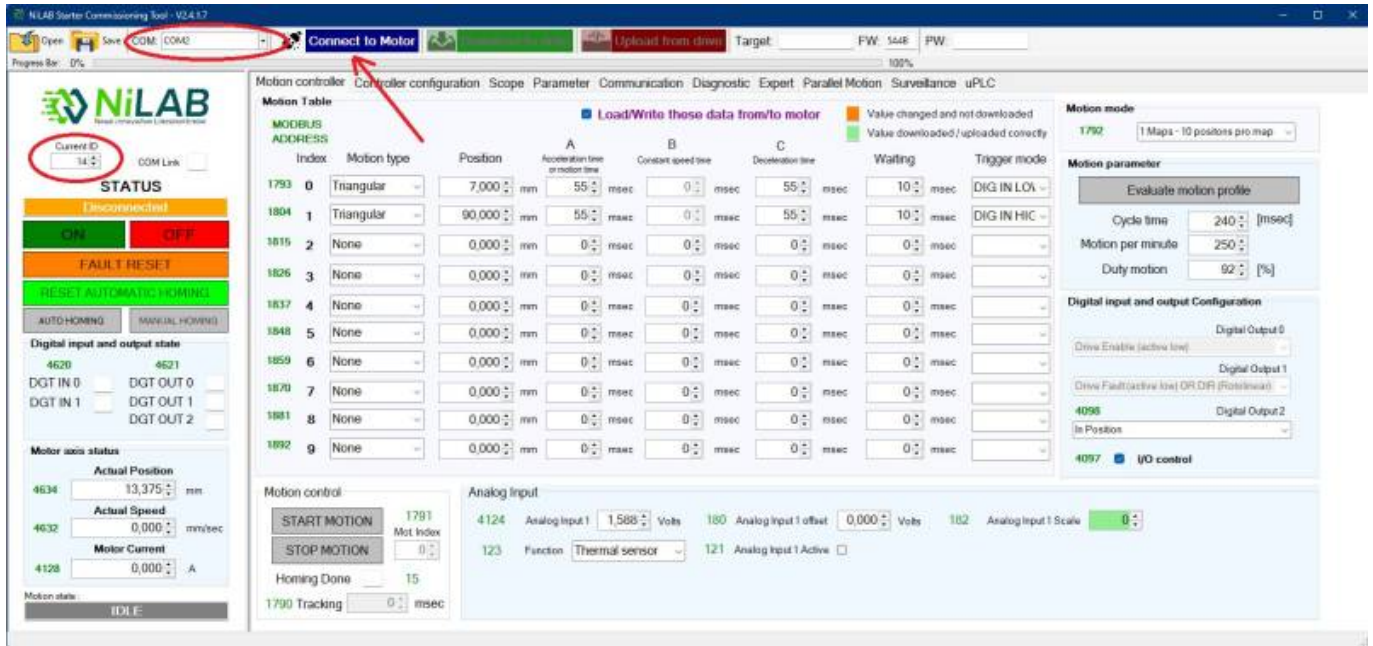
10. Store the configuration permanently to Flash pressing the Write configuration to flash button on the Parameter window.



11. Disconnect the motor from NiLAB Starter and disconnect the power from the motor to update the Device ID to the new value.



12. Reconnect the motor to the power and wait 5 seconds before connect again using NiLAB Starter with the right ID (in this example we change the ID from 1 = Default to ID = 14).



Check if the motor is running with the previous configuration of the replaced motor.

From:

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

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Last update: **2025/06/18 07:26**

