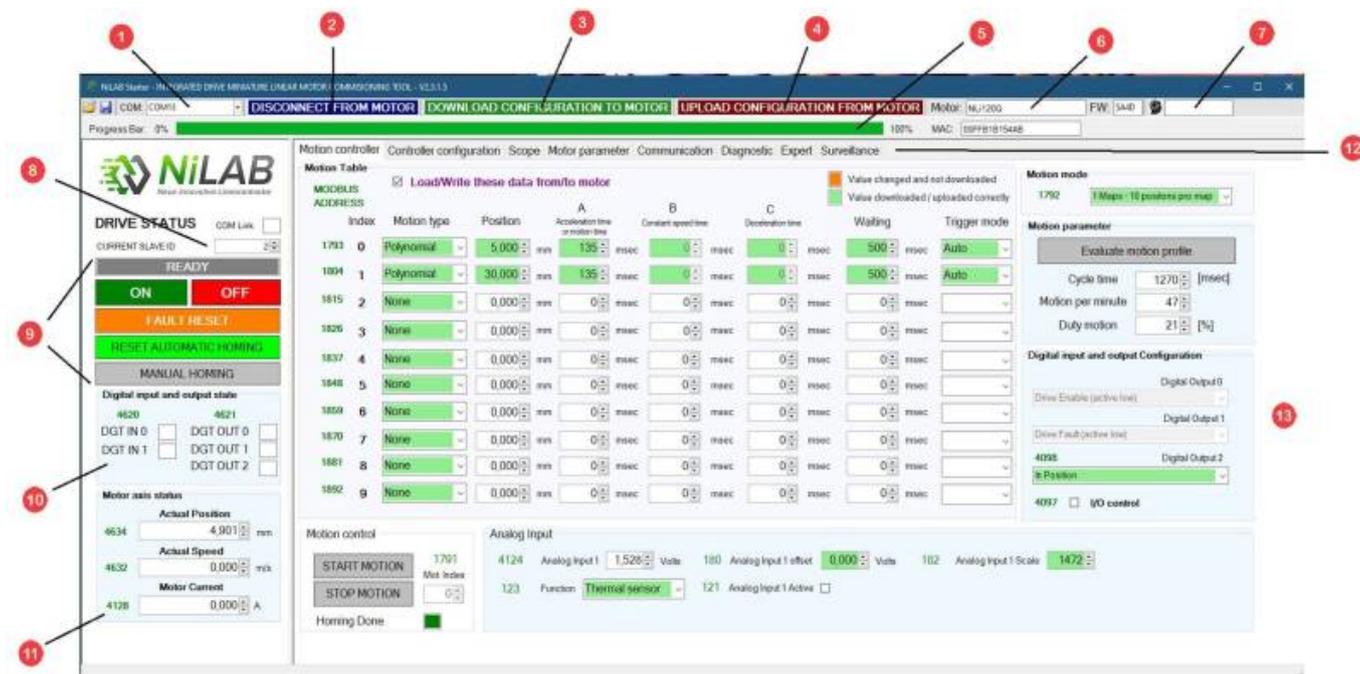


Interface description

Overview

1. Communication Port (example: COM2, COM3,..)
2. Button to establish a communication with the motor
3. Button to download the configuration from the interface to the motor
4. Button to upload the configuration from the motor to the interface
5. Progress bar that indicates the percentage of download or upload procedure
6. Motor type detected (ex: NLi120Q or NLi080Q)
7. Field to insert the password for expert mode
8. Current slave ID
9. Drive status and buttons for switch on and off, fault reset and homing procedure
10. Status of digital inputs and outputs
11. Status of motor axis (position, speed and current)
12. Windows selection (motion, controller, scope, motor parameter, communication, diagnostic, expert and surveillance)
13. Motion table window



How to download and store the current interface data

The user can connect to the motor using different COM ports, downloading and uploading the data stored inside the integrated drive motor memory.

Any change regarding the numbers inside the configuration windows requires to press the download to the motor button to update the configuration inside the memory of the motor. When some parameters change, the color will change to orange to underline which number has to be downloaded inside the motor. After the download the color of the parameters must always be green. **PLEASE IN ORDER TO STORE PERMANENTLY THE CONFIGURATION - PRESS THE WRITE**

CONFIGURATION TO FLASH

The screenshot shows the 'NiLAB Starter Configuration Tool - V2.4.15' interface. The top navigation bar includes 'Disconnect from Motor', 'Download to drive', and 'Upload from drive'. The main area 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:** Lists DGT IN 0, DGT IN 1, DGT OUT 0, and DGT OUT 1.
- Motor axis status:** Displays 'Actual Position' (40.455 mm), 'Actual Speed' (0.000 mm/sec), and 'Motor Current' (0.000 A).
- Homing Setup:** Includes parameters for Homing current threshold (500 mA), Homing speed (50 mm/s), Invert zero position, Trigger mode (On mechanical stop), and Soft Landing (vertical axis).
- Production Parameter:** Lists Motor Serial Number, Manufactured in (Month and Year).
- Supply and MODBUS/CAN:** Shows Drive Power Supply (24 Volts), Device ID (1), and CanOPEN Baudrate (0 > 1 Mb/Sec).
- Homing methods:** Displays waveforms for Mechanical Stop Trigger, NO / NC Sensor Trigger, and Priority Switch.
- In position function:** Shows a graph of Position absolute vs Time and a parameter for In Position window size (5000 +/- microns).
- Flash Memory Command:** Contains three buttons: 'Write configuration to flash' (highlighted with a red arrow), 'Read configuration from flash', and 'Drive Reset'.

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

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