

Software di programmazione

Questa pagina descrive il **software di programmazione** per l'attuatore Motolab. Il drive motore integrato viene configurato con il software PC.

Per configurare il drive motore integrato, utilizza il software PC chiamato Motolab Starter:

https://www.nilab.at/download/motolab_starter_ver0-0-1-0/?wpdmdl=6631&refresh=635638e9ee1601666595049

The screenshot shows the Motolab Starter Configuration Tool interface. The top bar includes buttons for DISCONNECT FROM MOTOR, DOWNLOAD, UPLOAD, and STORE, along with a progress bar at 0%. The main window is divided into several sections:

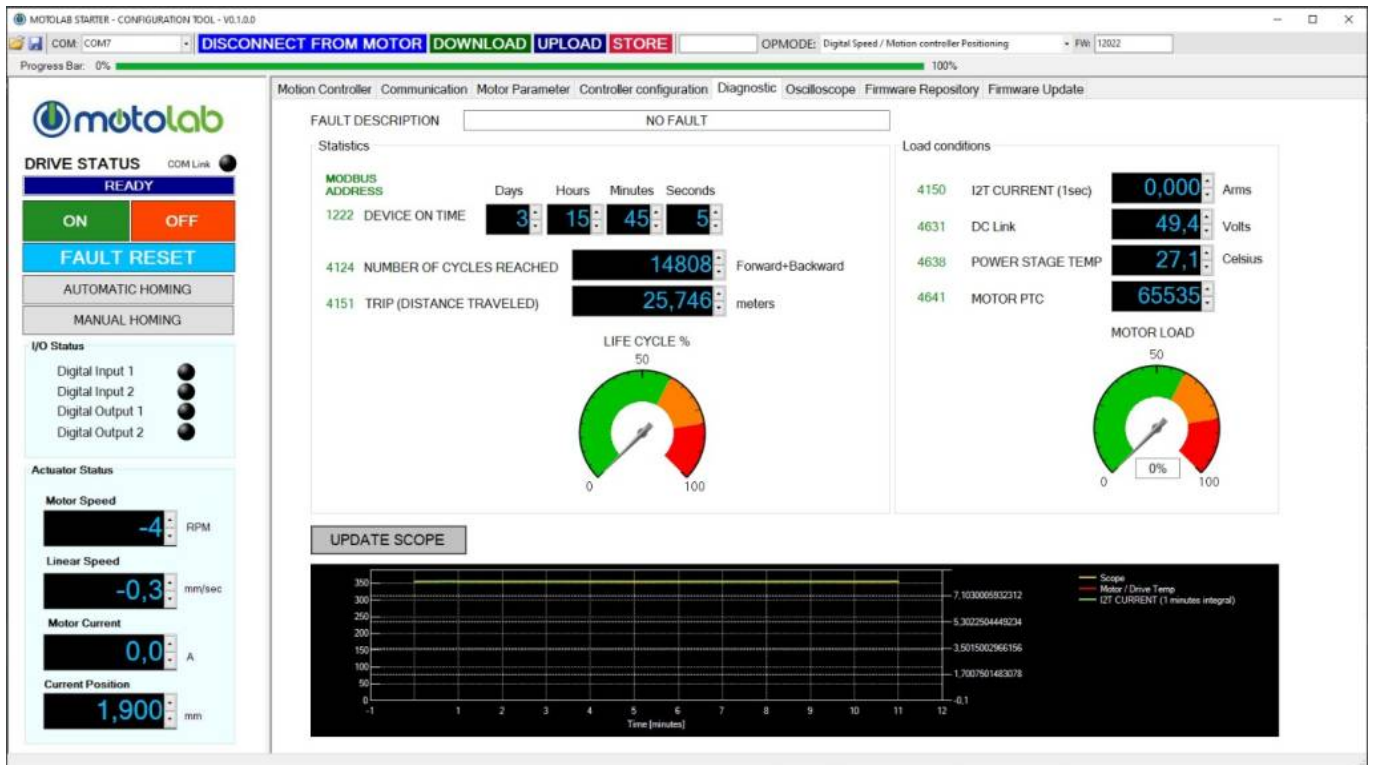
- DRIVE STATUS:** Shows a READY status, ON/OFF buttons, FAULT RESET, and AUTOMATIC/MANUAL HOMING options.
- I/O Status:** Displays Digital Input 1, Digital Input 2, Digital Output 1, and Digital Output 2.
- Actuator Status:** Shows Motor Speed (-1 RPM), Linear Speed (-0,1 mm/sec), Motor Current (0,0 A), and Current Position (1,897 mm).
- Motion Table:** A table with columns for Index, Motion type, Position, A, B, C, Waiting, and Trigger mode. It lists 10 motion profiles (Index 0 to 9) with various parameters.
- Motion control:** Includes START MOTION and STOP MOTION buttons, along with a Mot Index value of 4149.
- Digital Outputs Setup:
 - Digital Output 1 Setup: Brake Control (154)
 - Digital Output 2 Setup: In Position (active low) (427)**

The screenshot shows the Motolab Starter Configuration Tool interface, focusing on the Motion Command and Control Loop Diagram.

Motion Command:

- 4128 Current setpoint: 0,000 A
- 4134 Speed setpoint: 0,000 RPM
- 84 Acceleration time: 2 msec
- 85 Deceleration time: 2 msec

Control Loop Diagram: The diagram illustrates the control loops for the motor drive, including the Position Loop, Speed Loop, and Current Loop. It shows the flow of signals between various components, including the motor (M) and the controller (S).



A cosa serve Motolab Starter

- Configurazione dei parametri e messa in servizio del drive integrato. - Configurazione e test dei profili di movimento e delle sequenze di homing. - Monitoraggio in tempo reale dello stato del drive e della posizione dell'attuatore. - Diagnostica e analisi dei guasti durante la messa in servizio.

Come procedere

- Scarica e installa il software Motolab Starter. - Collega il drive al PC con il cavo di programmazione. - Configura i parametri del motore e le impostazioni di movimento. - Salva la configurazione e verifica il funzionamento dell'attuatore.

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