

Motion controller

Position table

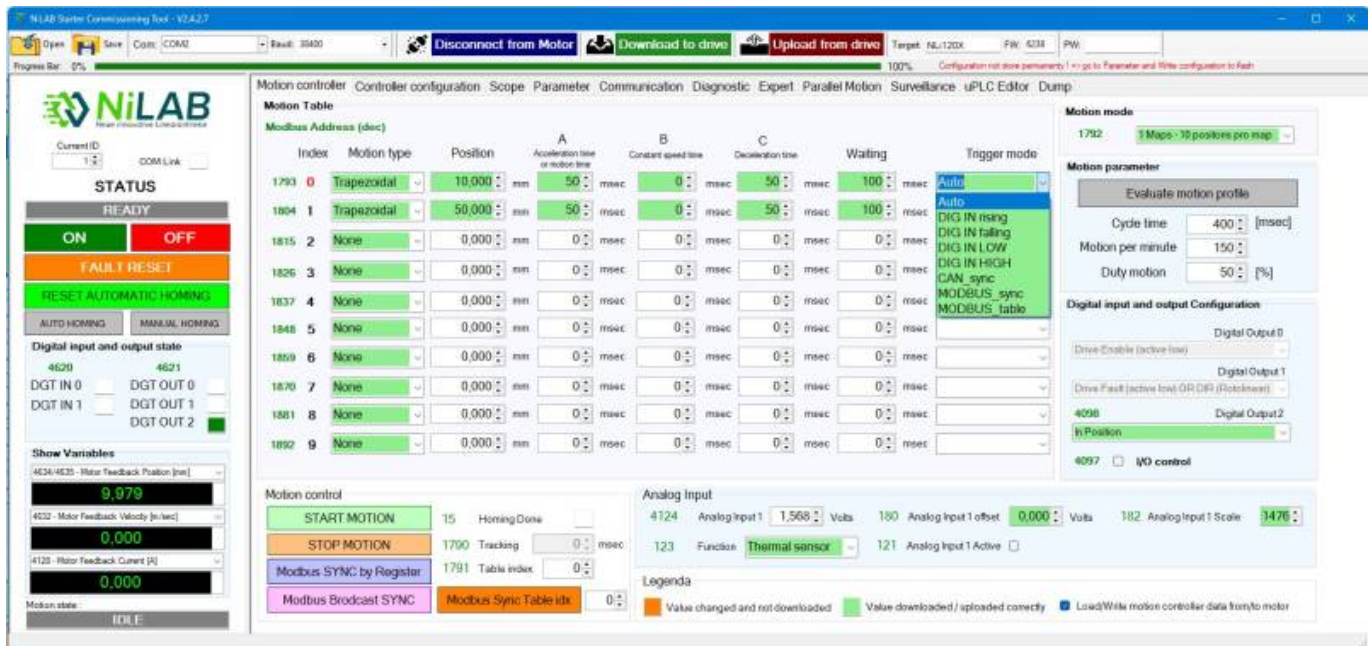
The motion controller window is used to specify the motion sequences. It is based on 10 row tables. Every row configures the motion task with these parameters:

1. Motion type: trapezoidal, triangular, polinomial, sinusoidal or force
2. Target position
3. Acceleration, deceleration and constant speed time depending on the motion profile used
4. Waiting time
5. Trigger mode: automatic, rising edge, falling edge, high and low level of trigger input (Digital input 1)

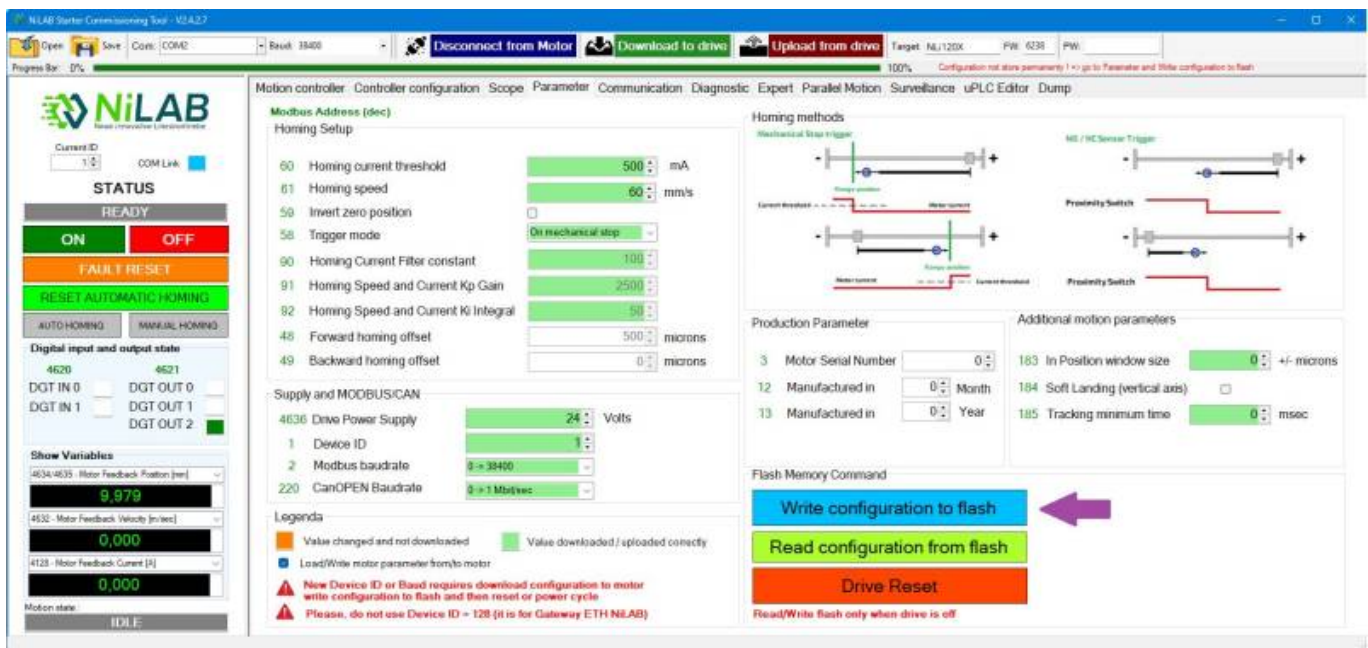
The screenshot displays the NiLAB motion controller software interface. The main window is titled "Motion Table" and contains a table for configuring motion tasks. The table has 10 rows, each representing a motion task. The columns are: Index, Motion type, Position, Acceleration time or motion time (A), Constant speed time (B), Deceleration time (C), Waiting, and Trigger mode. The first row (Index 0) is selected, showing a trapezoidal motion type with a target position of 10,000 mm, an acceleration time of 50 msec, a constant speed time of 0 msec, a deceleration time of 50 msec, and a waiting time of 100 msec. The trigger mode is set to "Auto".

Index	Motion type	Position	A	B	C	Waiting	Trigger mode
1793 0	Trapezoidal	10,000	50	0	50	100	Auto
1804 1	Trapezoidal	50,000	50	0	50	100	Auto
1815 2	None	0,000	0	0	0	0	
1826 3	None	0,000	0	0	0	0	
1837 4	None	0,000	0	0	0	0	
1848 5	None	0,000	0	0	0	0	
1859 6	None	0,000	0	0	0	0	
1870 7	None	0,000	0	0	0	0	
1881 8	None	0,000	0	0	0	0	
1892 9	None	0,000	0	0	0	0	

Below the table, there are sections for "Motion control" (START MOTION, STOP MOTION, Modbus SYNC by Register, Modbus Broadcast SYNC) and "Analog Input" (4124 Analog Input 1, 180 Analog Input 1 offset, 182 Analog Input 1 Scale). A "Legenda" section indicates that orange means "Value changed and not downloaded" and green means "Value downloaded / uploaded correctly".



PLEASE IN ORDER TO STORE PERMANENTLY THE CONFIGURATION - PRESS THE WRITE CONFIGURATION TO FLASH



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