

# Motion controller

## Position table

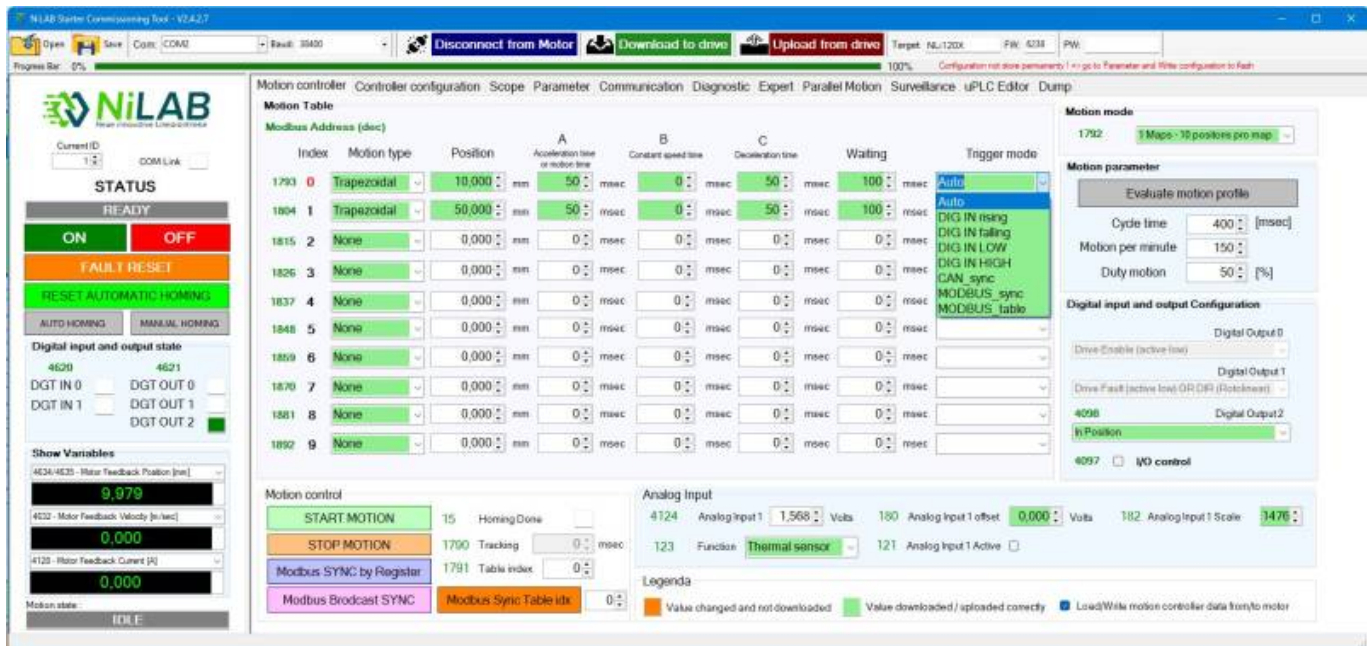
The motion controller window is used to specify the motion sequences. It is based on 10 row tables. Every row configures the motion task with these parameters:

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)

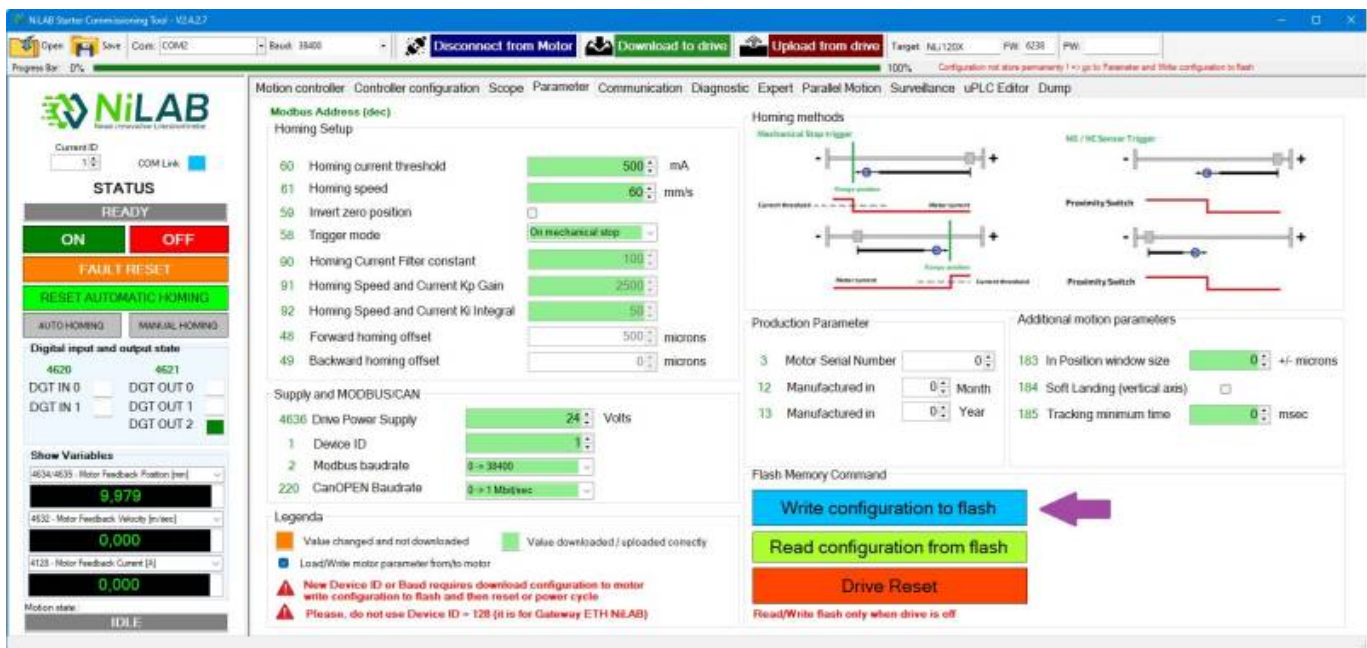
The screenshots show the NiLAB Motion Controller software interface. The main window displays a 'Motion Table' with 10 rows. Each row is configured with the following parameters:

Index	Motion type	Position	Acceleration time or motion time	Constant speed time	Deceleration time	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	

The interface also includes a 'Motion mode' dropdown set to '1 Maps - 10 positions per map', 'Motion parameter' settings (Cycle time: 400 ms, Motion per minute: 150, Duty motion: 50%), and 'Digital input and output Configuration'.



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



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Last update: 2025/11/19 13:31

