

# Motion controller

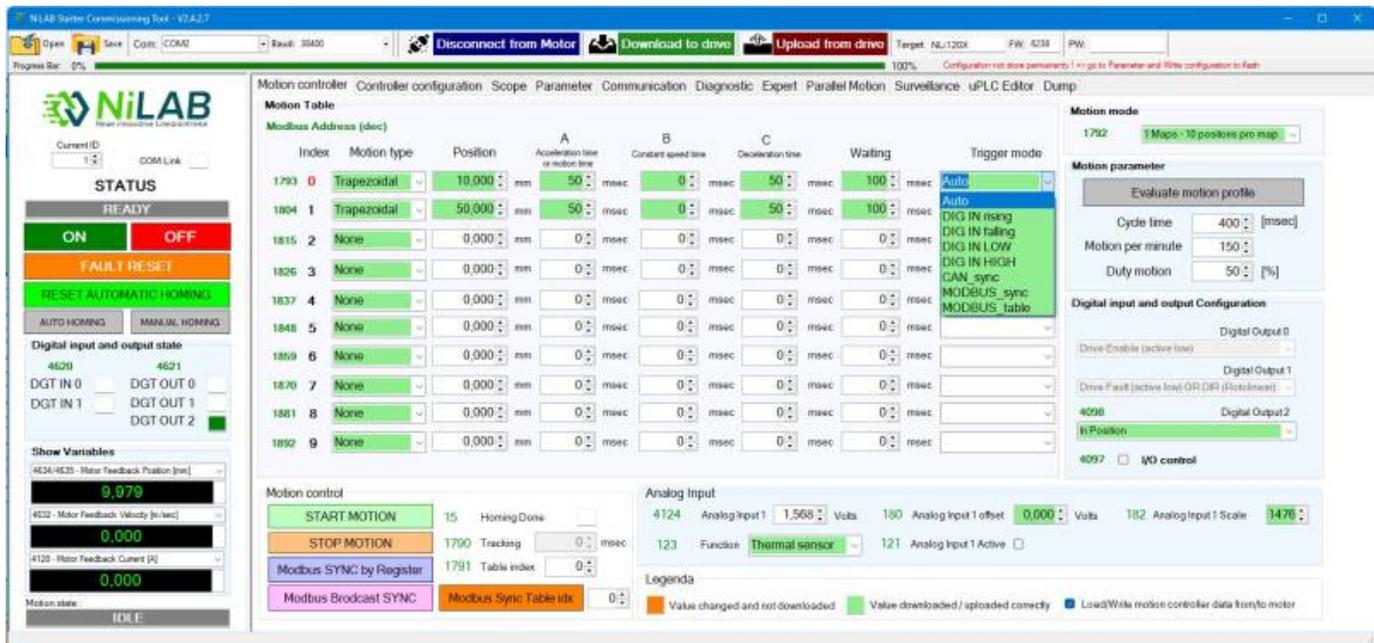
## Position table

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:

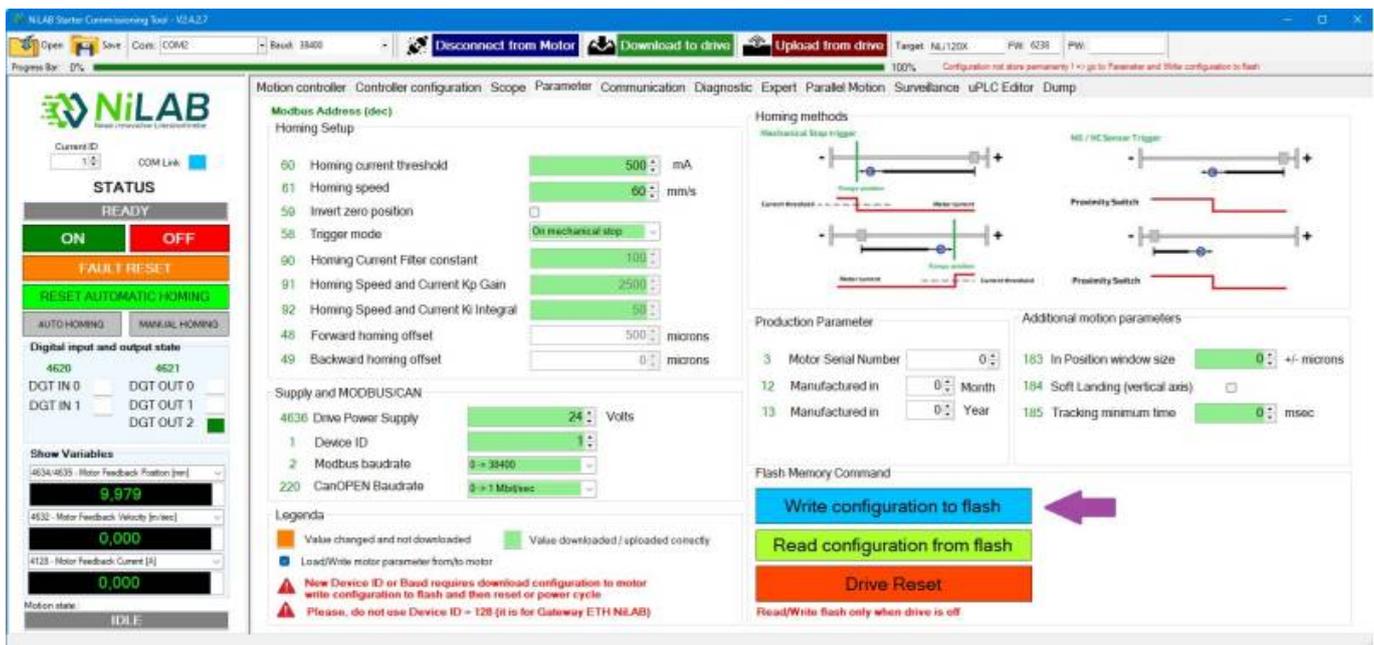
1. Motion type: trapezoidal, triangular, polinomial, sinusoidal or force
2. Target position
3. Acceleration, deceleration and constant speed time depending on the motion profile used
4. Waiting time
5. Trigger mode: automatic, rising edge, falling edge, high and low level of trigger input (Digital input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

The screenshots show the NiLAB motion controller software interface. The top screenshot displays the 'Motion Table' configuration for index 1793, set to 'Trapezoidal' motion type with a target position of 10,000 mm. The bottom screenshot shows the same interface with index 1804 selected, set to 'Triangular' motion type with a target position of 50,000 mm. Both screenshots include a status panel on the left, a main configuration table, and a right-hand sidebar with motion mode and parameter settings.

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	



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



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