



BOONS

food & industrial supplies



HS-2

Hygienic station

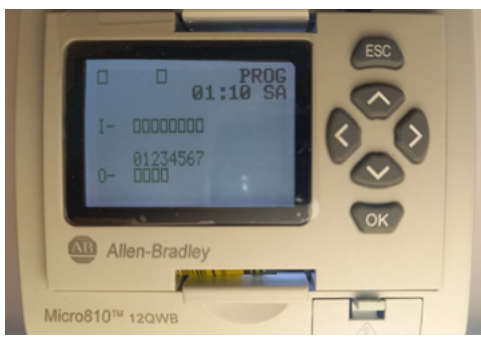
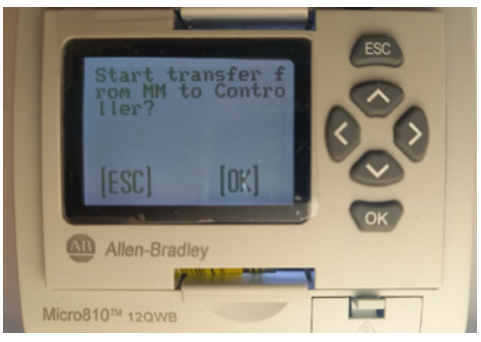
BOONS FIS nv / bv	Original user manual
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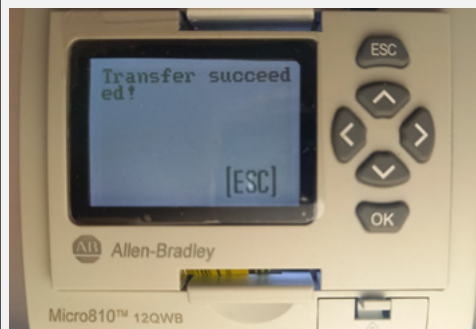
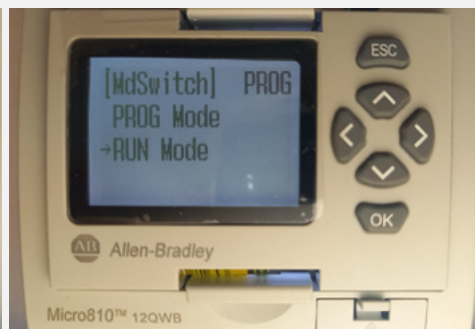
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1. Service handleiding

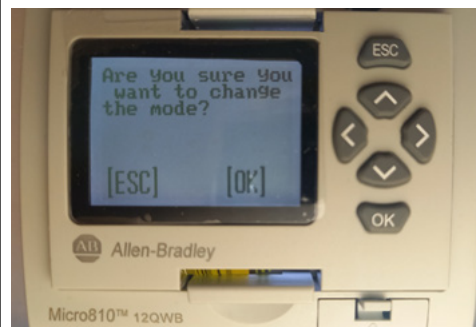
Instellingen (via display)

<p>Be careful to not bend/ damage the connection pins. Switch on the power supply. Plug in the display.</p>		
<p>Press "ESC" and "OK" simultaneously, to get in the menu.</p>		
<p>Go to "Advanced Setup" with the arrow "down" and confirm with "OK".</p>		
<p>Go -in "Advanced Set-up"- with the arrow "DOWN" and confirm with "OK". Go -in "Memory Module" to "MM M800" and confirm with "OK".</p>		
<p>Confirm the transfer with "OK". The green light is flashing during the transfer.</p>		

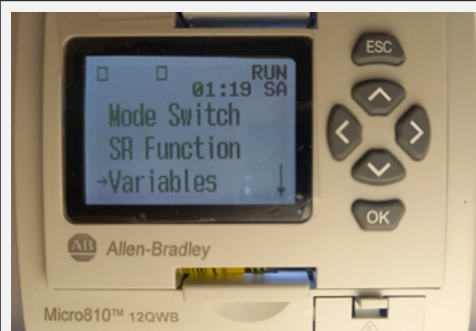
Press a few times on "ESC", until you get again the main menu. Go to "Mode Switch" and confirm with "OK".



Go to "RUN mode" and confirm multiple times with "OK".



To adjust the parameters, go to "Variables" and press "OK"



"Variable List": see also below, under parameters.

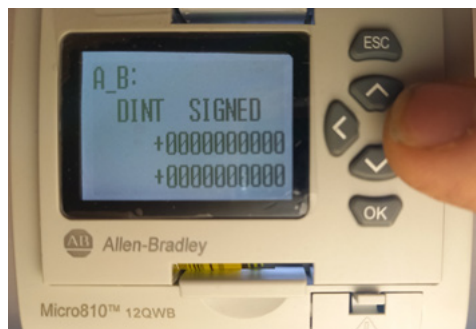
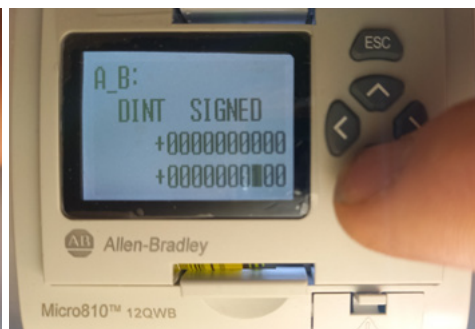


To adjust a parameter press "OK" on the selected parameter.

Example : parameter A_B (passage counter)



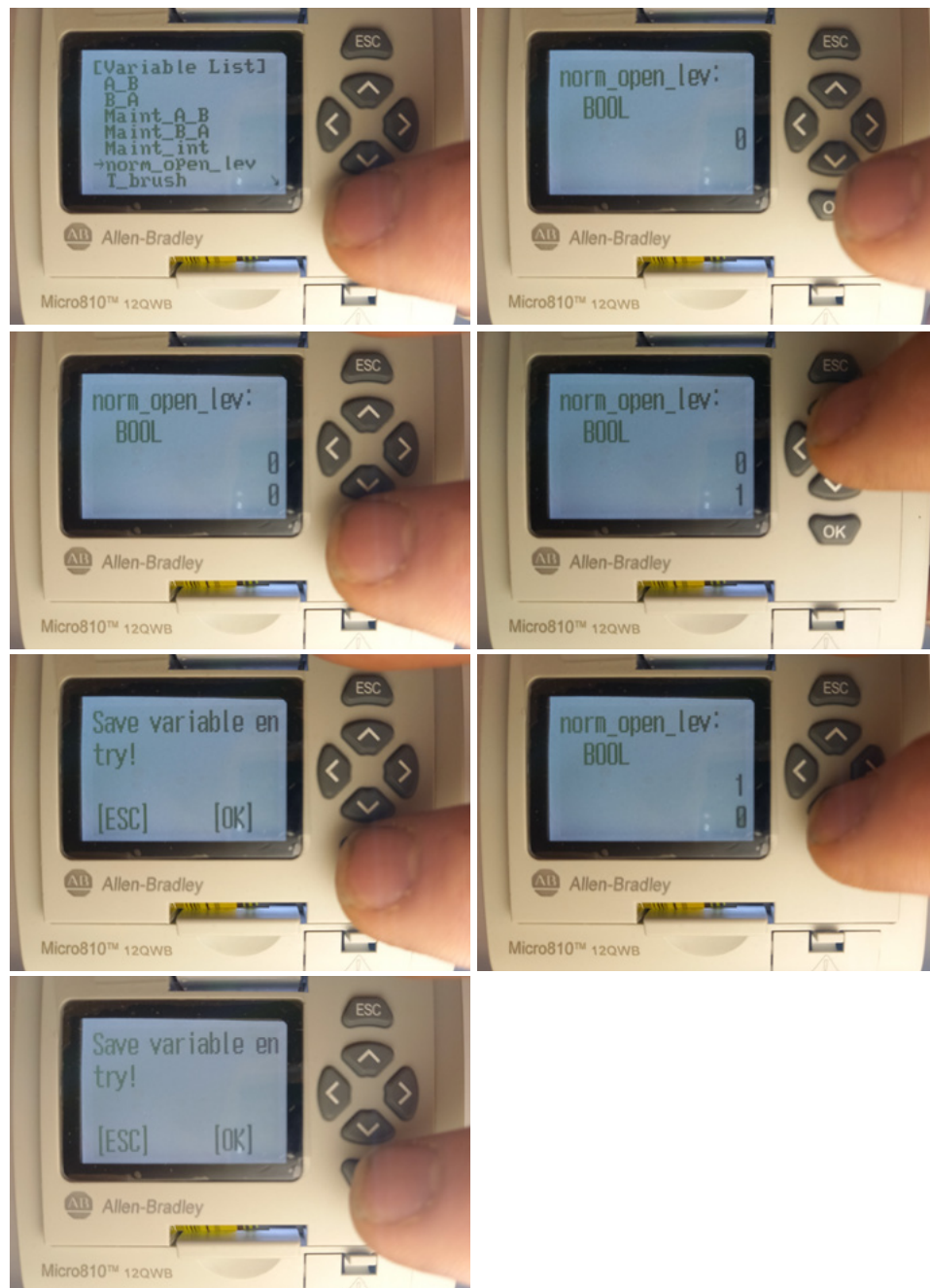
Press the arrow "Down".
Adjust the selected value.



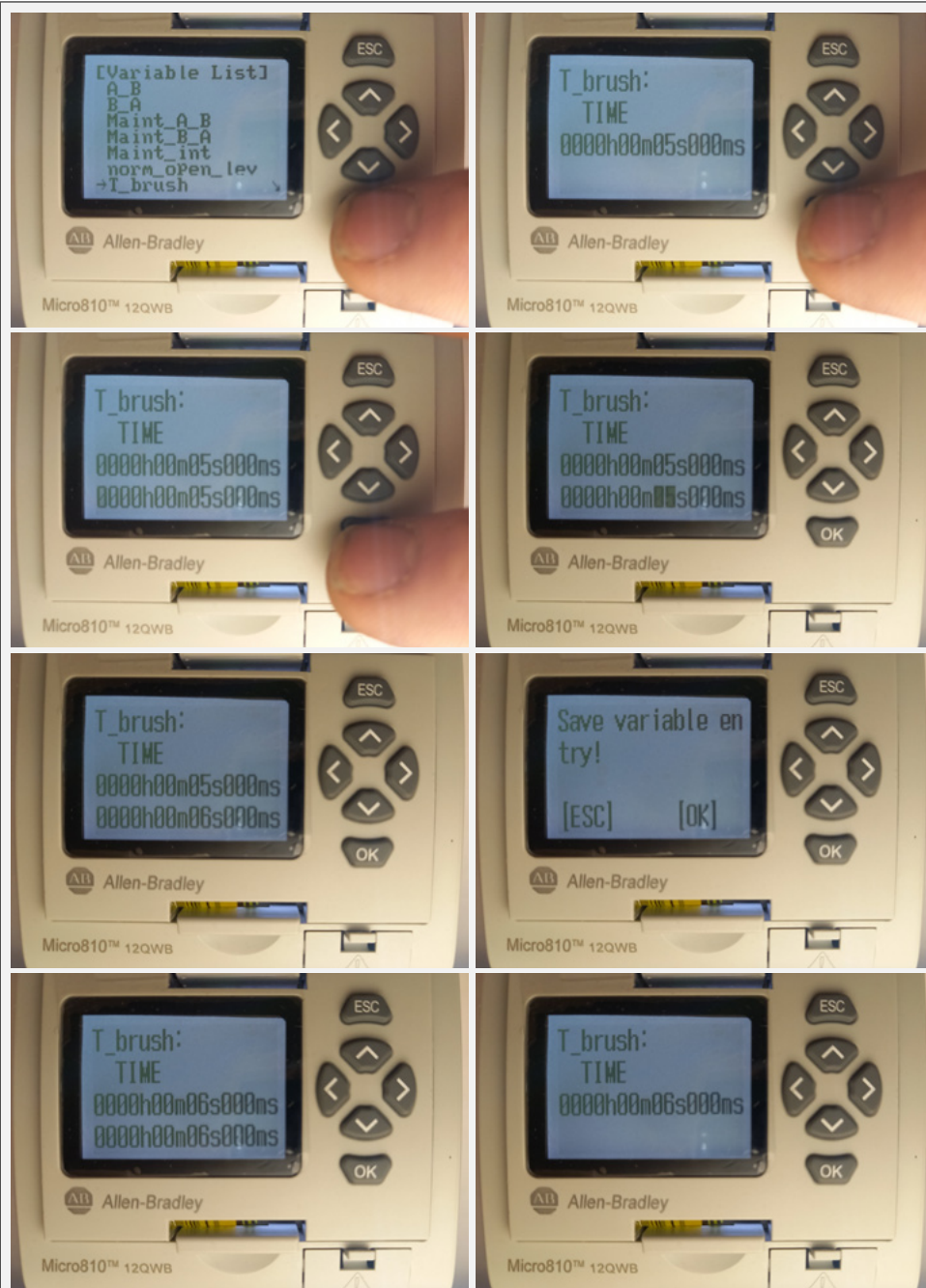
Press "ESC", and confirm with
"OK".



Adjustment of parameter
"norm_open_lev".



Adjustment of time of brush motor on HS-2.



2. In & Outs

Tag	Name schedule	Name program	Description	NW in program
DI00	Manual pumping	man_pump	Press 0-2 sec = manual pumping in order to purge the air.	1, 2
DI00	Manual pumping	man_pump	Press 60 sec = the next maintenance counter is incremented with Maint_int	16, 17
DI00	Manual pumping	man_pump	Press 5 min = swap the function of the suction pipe (invert norm_open_level)	19-22
DI01	Suction Lance	level	Suction pipe : no passing and red light, if no product.	
DI02	N.o. A-B	A-B_after_pas	Controls the next maintenance counter and blocks the start of the brushes when exiting the installation.	
DI03	N.o. B-A	B-A_after_pas	Controls the next maintenance counter and blocks the start of the brushes when exiting the installation.	
DI04	Hand sensor 1	Hand_1	Sensor in disinfection room	
DI05	Hand sensor 2	Hand_2	Sensor in disinfection room	
DI06	Person Detection Sensor A	Pers_A-B	Sensor on brushes	
DI07	Person Detection Sensor B	Pers_B-A	Sensor on brushes	
DO00	Disinfectant Pump	Pump	Disinfection pump	
DO01	A-B	request	Request access on the turnstyle.	
DO02	Inhibit	inhibit	Blocks access to the turnstyle and switch on the red light.	
DO03	Brushes	Brush	Output of the contactor that controls the brushes and the water valve.	

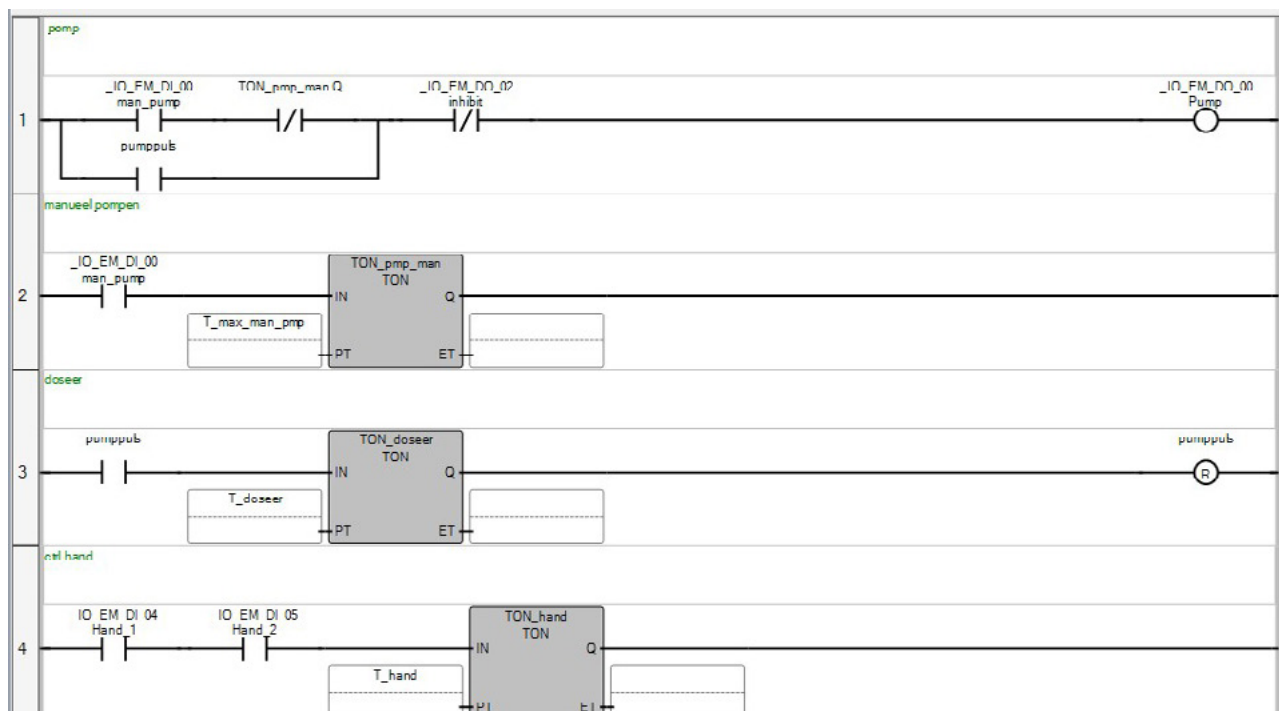
3. Parameter list

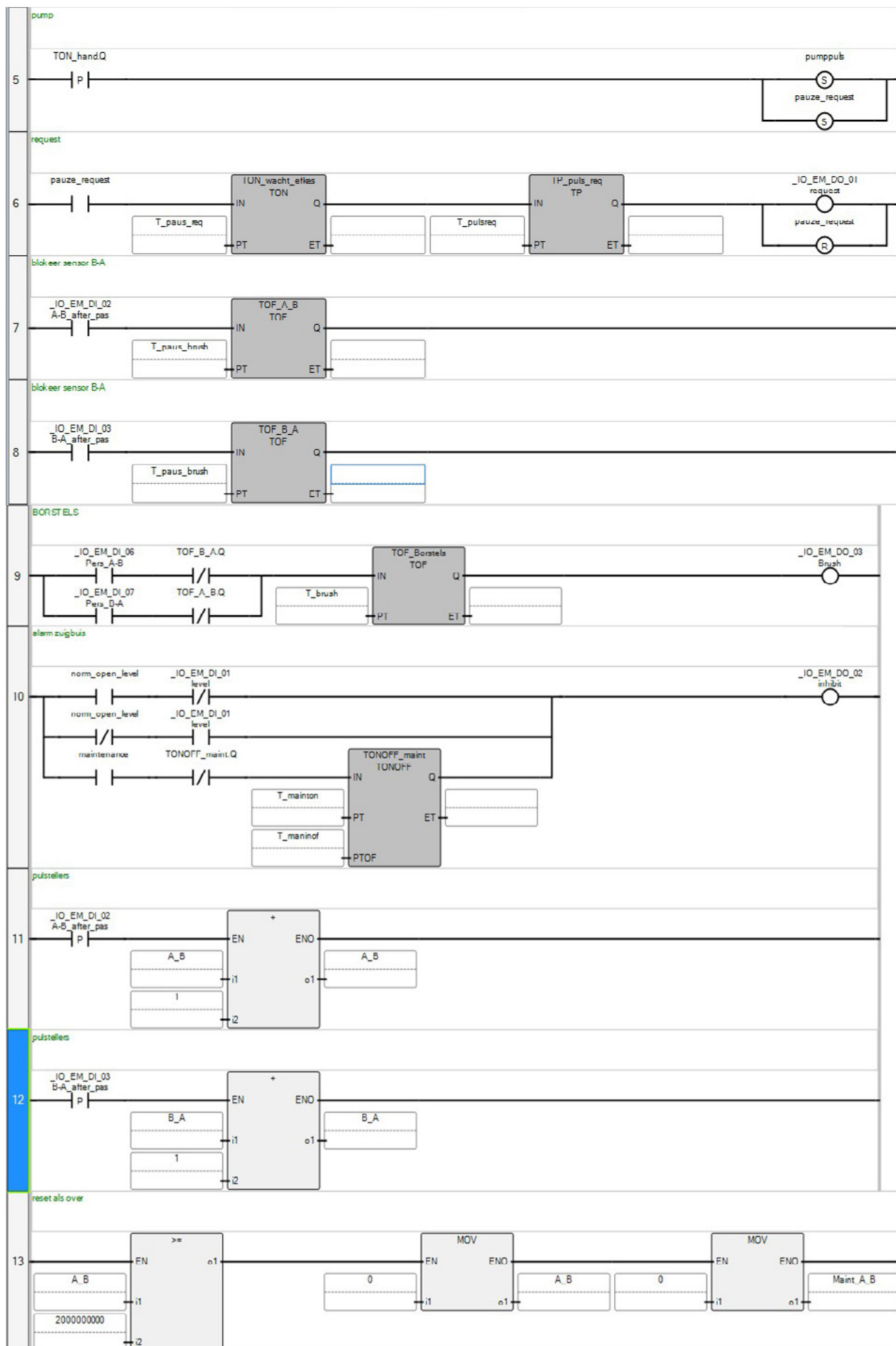
Tag	Data type	Standard setting	Description	NW in program
A_B	DINT		Amount of registered entrances in direction B to A (DI03).	11, 13 ,15, 17
B_A	DINT		Amount of registered entrances in direction A to B (DI02).	12, 14 ,15, 17
Maint_A_B	DINT	5000	Launch maintenance request after this amount of registered entrances in direction A to B.	13, 15, 17
Maint_B_A	DINT	5000	Launch maintenance request after this amount of registered entrances in direction B to A.	15, 17
Maint_int	DINT	5000	Maintenance interval after resetting the maintenance request via the reset button (DI00) next to the PLC.	14, 17
norm_ open_level	BOOL	0	Parameter to switch the operation of the contact of the suction tube (DI01): 1 if the suction tube gives contact when product is present, 0 otherwise	10, 20, 21
T_brush	TIME	T#5s	Rotation time of the brushes (DO03) after a person is detected (DI06 or DI07) and the pause time after passage (T_paus_brush) through the turnstlye (DI02 or DI03) is not active.	9
T_doseer	TIME	T#70ms	Dosing time of the dosing pump (DO00) when hands are detected (DI04 & DI05)	3
T_hand	TIME	T#500ms	Time that both hands (DI04 & DI05) are detected, before dosing starts. Dosing only starts at positive flank.	4
T_paus_ brush	TIME	T#2s	Rotation time of brushes (DO03) after a person is detected (DI06 or DI07) and the pausing time after passing (T_paus_brush) through the turnstlye (DI02 or DI03) is not active.	7, 8

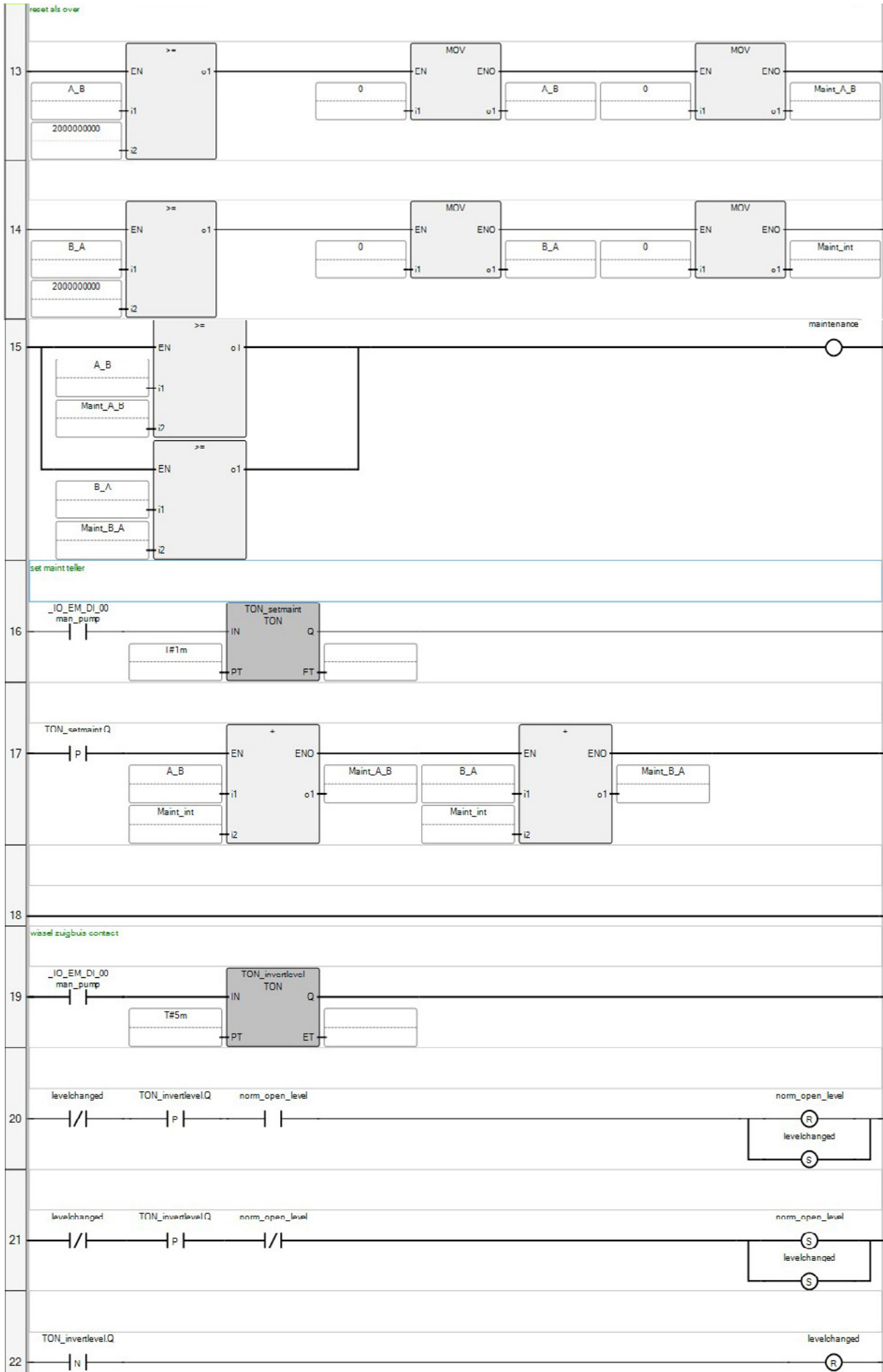
4. Internal settings (adjustable by PC only)

Tag	Data type	Standaard-instelling	Beschrijving	NW in programma
T_max_man_pmp	TIME	T#2s	Maximum time that the dosing pump (DO00) can work if the button next to to the PLC is pushed (DI01).	2
T_paus_req	TIME	T#500ms	Pause after dosing before the tourniquet can be re-activated.	6
T_pulsreq	TIME	T#300ms	Length of the request pulse on the turnstyle (DO01).	6
T_mainton	TIME	T#9s	If counter passages is succeeded: Time that normal passage is possible and the arrow can be green. (DO02 = 0)	10
T_maninof	TIME	T#1s	If counter passages is succeeded: Time that passthrough is not possible and the arrow is red (DO02 = 1)	10

5. Program overview









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