

PHOENIX

MAINTENANCE INTERFACE

(Translated from the original French version)

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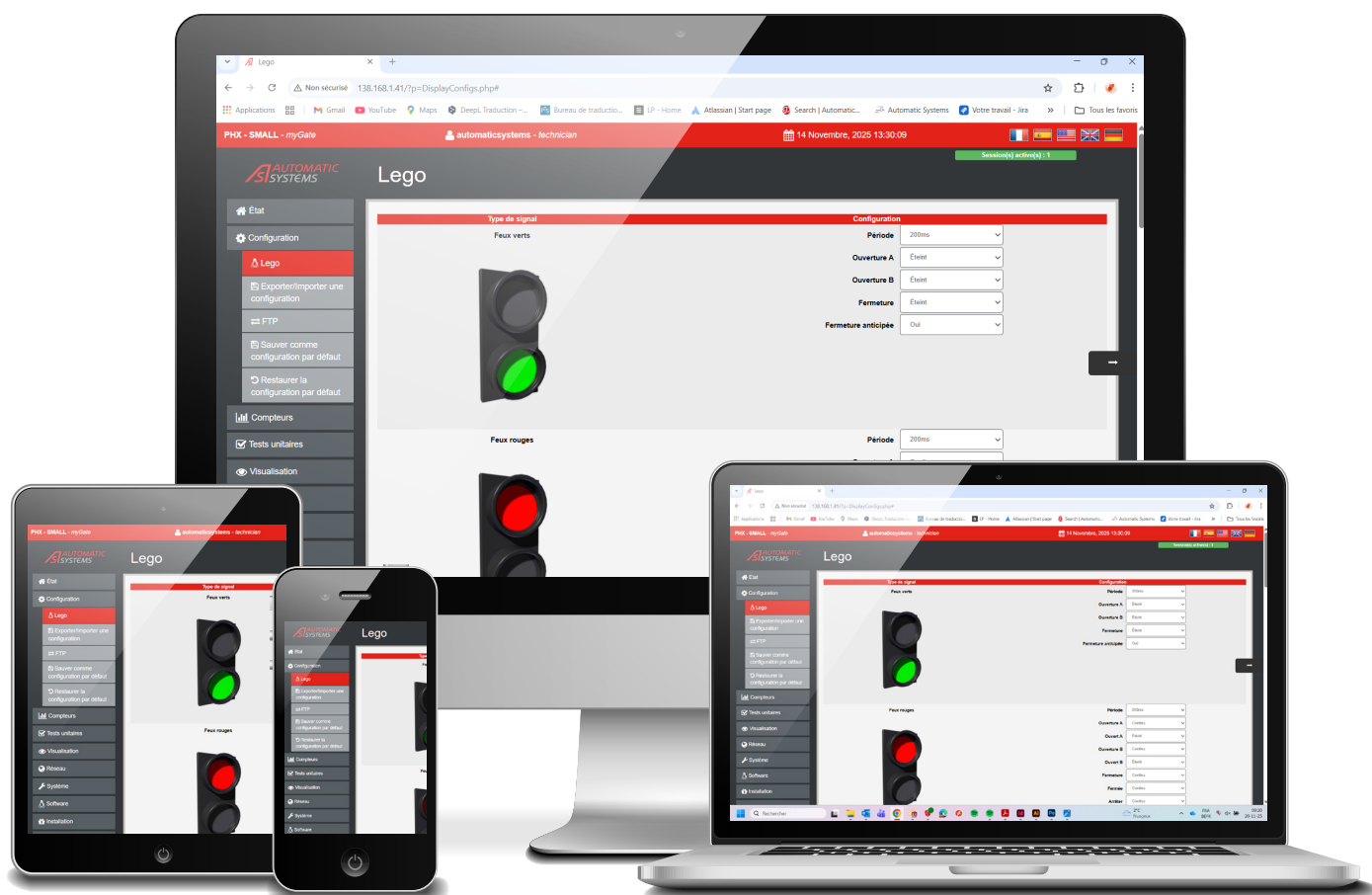


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1. INTRODUCTION

You have chosen a barrier designed and manufactured by Automatic Systems, equipped with Phoenix control logic, also developed by our teams. We thank you for your trust.

The Phoenix electronic control board, built on more than 50 years of expertise in access control, integrates the latest technologies for optimised operation and precise management of your vehicle access control equipment.

Designed as a complete platform, the Phoenix board alone combines the equivalent of several dedicated electronic boards. It therefore centralises the management of:

- inputs and outputs, to control and monitor all command and safety signals
- the LED strip, enabling direct and dynamic control of the integrated lighting
- the three HMI buttons, allowing passage authorisation in direction A, stop, or barrier closing

It also offers:

- Ethernet and USB-C ports for modern, versatile connectivity
- configurable information contacts, allowing the status of the barrier (open or closed) to be reported
- indication of presence detector status
- master-slave management between two barriers installed opposite each other

We are confident that you will be completely satisfied with your purchase for many years to come, and to that end, we recommend that you carefully read the following information.

It will help you use, configure and update the control logic.

Correct use and optimal settings ensure proper operation of the device and a significant increase in the lifespan of its components.

2. SAFETY WARNING



Please read this document carefully and in its entirety before commissioning the barrier and keep it in a safe place for future reference. Failure to follow the instructions in this document may result in damage to the barrier and personal injury, which could be serious.

It is the user's responsibility to inform the operators of this equipment of the precautions for use and to ensure that they are followed.

Any servicing or other intervention on the control logic must be carried out by personnel with appropriate electronic certification. Any servicing or other intervention carried out on this product by an unauthorised or non-certified technician will automatically and by rights void the manufacturer's warranty.



ANY ELECTRONIC HANDLING MUST BE CARRIED OUT WITH THE POWER OFF AND IN ACCORDANCE WITH THE ELECTROSTATIC PRECAUTIONS DESCRIBED IN CHAP. 2.1.



CONNECTORS MUST NOT BE CONNECTED OR DISCONNECTED FROM THE INPUTS AND OUTPUTS WHILE THE LOGIC IS POWERED ON; THE POWER MUST BE SWITCHED OFF BEFORE HANDLING.

All personnel must be informed of the electrical hazards to which they are exposed in the event of careless handling.

Any internal parts that may be live must be handled with care.

The equipment is configured in minimal risk mode for its users. Any changes to the parameters must be carried out by knowledgeable and qualified staff and shall in no way incur the liability of Automatic Systems.

2.1. HANDLING ELECTROSTATIC-SENSITIVE DEVICES

Take extra precautions when handling electrostatic-sensitive devices.



STATIC ELECTRICITY CAN DAMAGE THE ELECTRONIC COMPONENTS AND THE SYSTEM. TO AVOID ANY RISK OF DAMAGE, KEEP ELECTROSTATIC-SENSITIVE DEVICES IN THEIR ANTISTATIC PACKAGING UNTIL IT IS TIME TO INSTALL THEM.

To reduce the risk of electrostatic discharge, follow these guidelines:

- Limit your movements. Movements help generate static electricity around you.
- Use a device that eliminates static electricity, such as an antistatic mat or wristband.
- Handle the device carefully, holding it by its edges or frame.
- Do not touch any exposed welds, pins, or circuit boards.
- Do not leave the device within reach of anyone else who may handle it and potentially damage it.
- While the device is still in its antistatic packaging, touch it to an unpainted metal zone for at least two seconds. (This operation removes static electricity from the packaging and from your body.)
- Remove the device from its packaging and install it immediately without putting it down in the meantime. If you do have to put it down, place it on its antistatic packaging. (If it is a circuit board, place it with the components facing upwards.) Do not set the device on a metal table.
- Be extra cautious in cold weather, as heating reduces humidity and increases the build-up of static electricity.



If you do not have an antistatic wristband, you can just remain in contact with an unpainted part of the equipment when handling the electronic device.

3. GENERAL SYMBOLS

The following symbols are used in this manual or as labels on the equipment:



This symbol is used to highlight **a tip** that may help you better understand the product.



This symbol is used to highlight **an important instruction** for the correct use and/or maintenance of the product.



Important! : This symbol is used to highlight a **risk of injury or material damage**.



This symbol is used to highlight a **risk of electric shock or electrocution**.



This symbol is used to highlight a **risk of cutting yourself**.



This symbol is used to identify the **principal ground connection point**.
(Either in the form of an affixed label or directly engraved on a mechanical part).



This symbol is used to indicate the **tools** required for the relevant operation.



This symbol indicates that the equipment **conforms to European standards and directives**.



This symbol indicates that the equipment must **be disposed of** in **accordance with the applicable European Directives** (DEEE 2012/19/EU).

4. TERMINOLOGY

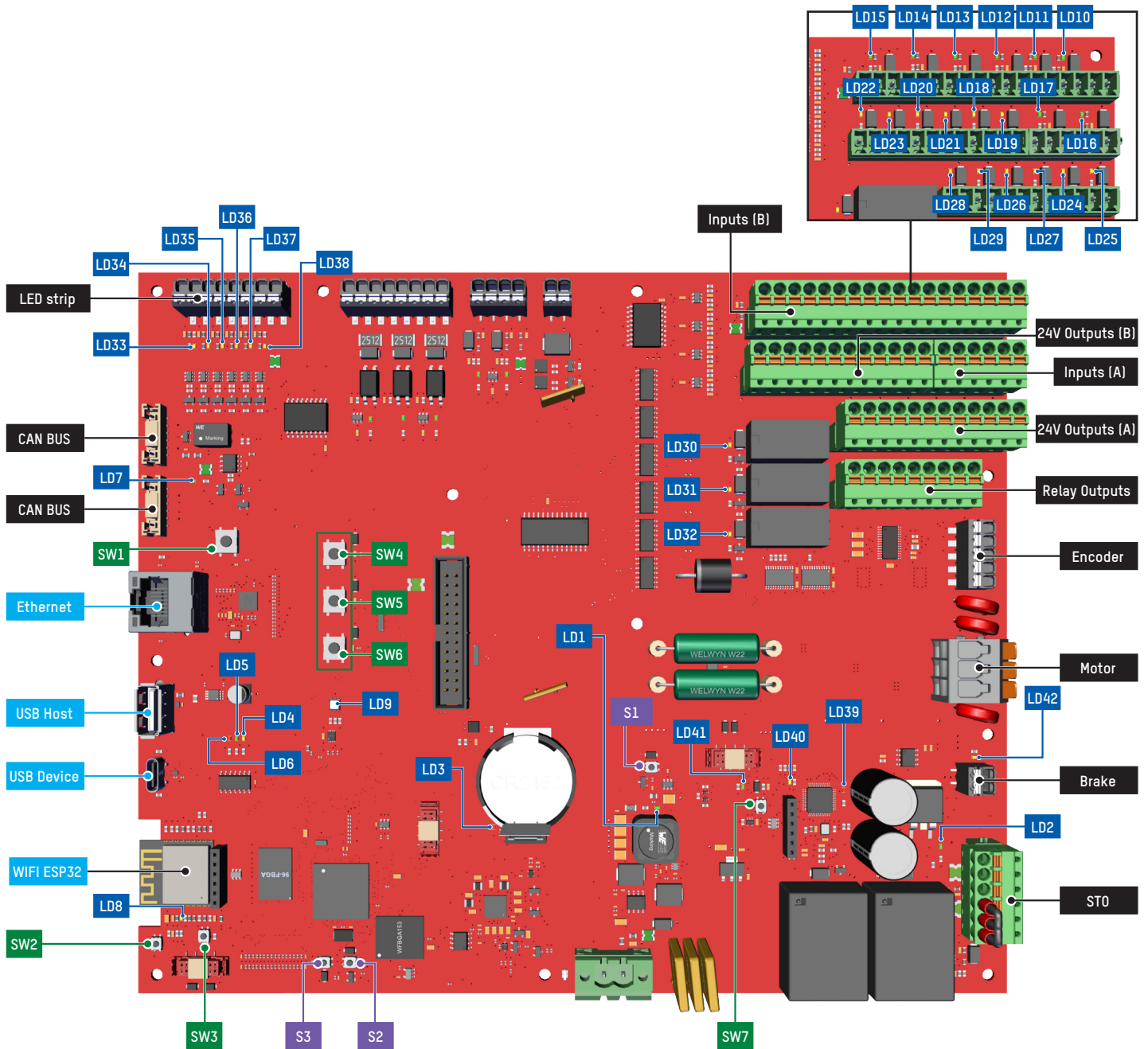
AS	Automatic Systems
BL	Rising barrier
BLQF	Locked closed (Bloqué fermé)
BLQO	Locked open (Bloqué ouvert)
CMD	Command
PS	Presence sensor (generic term for detection loops and safety cells)
DI	Digital input
DO	Digital output
ELV	Electrically lockable (électroverrouillable) (tip support)
I/O	Input/Output
FDC	Limit (switch)
FDCF	Limit (switch) when Closing
FDCH	Upper limit (switch)
FDCB	Lower limit (switch)
FDCO	Limit (switch) when Opening
FR	Closing
OOS	Out of Service
HMI	Human-Machine Interface
LCA	Board reader in direction A
LCB	Board reader in direction B
NC	(Contact) Normally closed
NO	(Contact) Normally opened
Obstacle	Element constituting the passage obstacle (the barrier arm)
OLED	Organic LED (screen with text lines available as an option, AS1621)
OP	Opening
MVT	Movement
TOR	On/Off (Tout ou rien)
Direction A	By convention, this is the direction of passage from the uncontrolled area to the controlled area
Direction B	Direction of passage opposite to direction A Direction B corresponds to passage from the controlled area to the uncontrolled area

5. DESCRIPTION

5.1. TECHNICAL SPECIFICATIONS

Power supply	24 V DC $\pm 10\%$, max. 14 A
Consumption	<5 W
CPU	SITARA AM 335X
Inputs	8 digital inputs, 0–24 V DC
Outputs	12 digital outputs, 24 V DC MAX 2A. (6 A maximum in total)
Relays	3 relays with NO and NC contacts – maximum rated voltage 125 V DC / 125 V AC – maximum switching power 60 W.
Connection(s)	1x USB-C
	1x USB-A (for Wi-Fi dongle)
HMI	3 buttons with configurable functions.

5.2. ASSIGNMENT OF COMPONENTS



BRAKE	
1	+ 24 V DC
2	GND

MOTOR	
1	Phase A
2	Phase B
3	Phase C

ENCODER	
1	Phase A
2	Phase B
3	Phase C
4	+ 5V
5	GND

24 V DC POWER SUPPLY	
1	GND
2	+ 24 V DC

STO (SAFE TORQUE OFF)	
1	+ 24 V DC
2	Buffer opening digital input (IN9)
3	GND
4	Power supply 1
5	GND
6	Power supply 2

RELAY OUTPUTS			
			CONFIG. BY DEFAULT
RELAY 1	1	NO	Barrier fault
	2	C	
	3	NF	
RELAY 2	4	NO	Open barrier
	5	C	
	6	NF	
RELAY 3	7	NO	Closed barrier
	8	C	
	9	NF	

24 V DIGITAL OUTPUTS (B)		
		CONFIG. BY DEFAULT
1	OUT 7	During closing
2	GND	
3	OUT 8	Custom Output #1
4	GND	
5	OUT 9	Custom Output #1
6	GND	
7	OUT 10	Strip LED on arm Red
8	GND	
9	OUT 11	Strip LED on arm Green
10	GND	
11	OUT 12	Strip LED on arm Blue
12	GND	Strip LED on arm GND

DIGITAL INPUTS (B)		
		CONFIG. BY DEFAULT
1	+ 24 V DC	IN1 Opening loop
2	IN1	
3	GND	
4	+ 24 V DC	IN2 Security loop or closing loop
5	IN2	
6	GND	
7	+ 24 V DC	IN3 open command
8	IN3	
9	GND	
10	+ 24 V DC	IN4 closing command
11	IN4	
12	GND	
13	+ 24 V DC	IN5 Blocked open
14	IN5	
15	GND	
16	+ 24 V DC	IN6 Locked closed
17	IN6	
18	GND	

24 V DIGITAL OUTPUTS (A)		
		CONFIG. BY DEFAULT
1	OUT 1	Red lights
2	GND	
3	OUT 2	Green lights
4	GND	
5	OUT 3	Siren
6	GND	
7	OUT 4	Rotating beacon
8	GND	
9	OUT 5	Electromagnetic tip support
10	GND	
11	OUT 6	During opening
12	GND	

DIGITAL INPUTS (A)		
		CONFIG. BY DEFAULT
1	+ 24 V DC	IN7 Derailing or breaking of the arm
2	IN7	
3	GND	
4	+ 24 V DC	IN8 Stop command
5	IN8	
6	GND	

STRIP LED		
		CONFIG. BY DEFAULT
1	GND	
2		
3	Blue	Strip LED 2
4	Green	
5	Red	
6	Blue	LED strip 1
7	Green	
8	Red	

SW1	Wi-Fi	Wi-Fi activation			
SW2	ESP32 reset	Restart Wi-Fi			
SW3	ESP32 zero IO	Set to flash mode			
SW4	HMI_1	Authorisation direction A	⇒ LED9		Green
SW5	HMI_2	Stop			Blue
SW6	HMI_3	Closing			Red
SW7	Reset	Reset the motor control board			

S1	Power Button	Process shutdown then restart
S2	Reset	Immediate stop then restart
S3	Boot	Reset and start from USB

Ethernet		
USB Host		USB A 2.0 port
USB Device		USB C 2.0 port
WIFI ESP32		Wi-Fi module

LD1	●	Green	Activity indicator +5 V
LD2	●	Green	ST0 activity indicator
LD3	●	Red	Incorrect battery positioning indicator (battery)
LD4	●	Yellow	Activity indicator - EMMC memory access (yellow)
LD5	●	Green	User LED
LD6	●	Red	CPU activity indicator (Heartbeat)
LD7	●	Yellow	Node status indicator on BUS CAN1
LD8	●	Yellow	ESP32 activity indicator
LD9	-	-	HMI (RGB)
LD10	●	Green	Activity indicator input 1
LD11	●	Green	Activity indicator input 2
LD12	●	Green	Activity indicator input 3
LD13	●	Green	Activity indicator input 4
LD14	●	Green	Activity indicator input 5
LD15	●	Green	Activity indicator input 6
LD16	●	Green	Activity indicator input 7
LD17	●	Green	Activity indicator input 8
LD18	●	Yellow	Activity indicator digital output 2
LD19	●	Yellow	Activity indicator digital output 1
LD20	●	Yellow	Activity indicator digital output 4
LD21	●	Yellow	Activity indicator digital output 3

LD22	●	Yellow	Activity indicator digital output 6	
LD23	●	Yellow	Activity indicator digital output 5	
LD24	●	Yellow	Activity indicator digital output 8	
LD25	●	Yellow	Activity indicator digital output 7	
LD26	●	Yellow	Activity indicator digital output 10	
LD27	●	Yellow	Activity indicator digital output 9	
LD28	●	Yellow	Activity indicator digital output 12	
LD29	●	Yellow	Activity indicator digital output 11	
LD30	●	Yellow	Activity indicator relay output 1	
LD31	●	Yellow	Activity indicator relay output 2	
LD32	●	Yellow	Activity indicator relay output 13	
LD33	●	Yellow	Red LED activity indicator	LED strip 1
LD34	●	Yellow	LED activity indicator Green	
LD35	●	Yellow	LED activity indicator Blue	
LD36	●	Yellow	Red LED activity indicator	LED strip 2
LD37	●	Yellow	LED activity indicator Green	
LD38	●	Yellow	LED activity indicator Blue	
LD39	●	Red	STM 32 technical defect indicator (Fail safe)	
LD40	●	Yellow	CAN STM 32 activity indicator (blinking)	
LD41	●	Green	Activity indicator – Watchdog STM 32 (blinking)	
LD42	●	Yellow	Activity indicator – BLDC motor brake	

For more information on connecting the board (⇒ Electrical Technical File).



6. MAINTENANCE INTERFACE

6.1. INTRODUCTION

The maintenance interface allows direct connection to a barrier equipped with an AS 1620 logic board in order to configure it, monitor its operating status and perform diagnostic and maintenance operations.

It is a resident tool, as a standard feature of the board's CPU, requiring no additional software to be installed.

The interface can be accessed from any personal or networked computer using a simple web browser (no Internet connection required).

You can use one of the following browsers:



Firefox



Internet Explorer
(Version 11 and above)



Edge



Safari



Opera



Chrome



HOWEVER, WE RECOMMEND USING FIREFOX OR CHROME BROWSERS.



If you experience display problems in Internet Explorer:

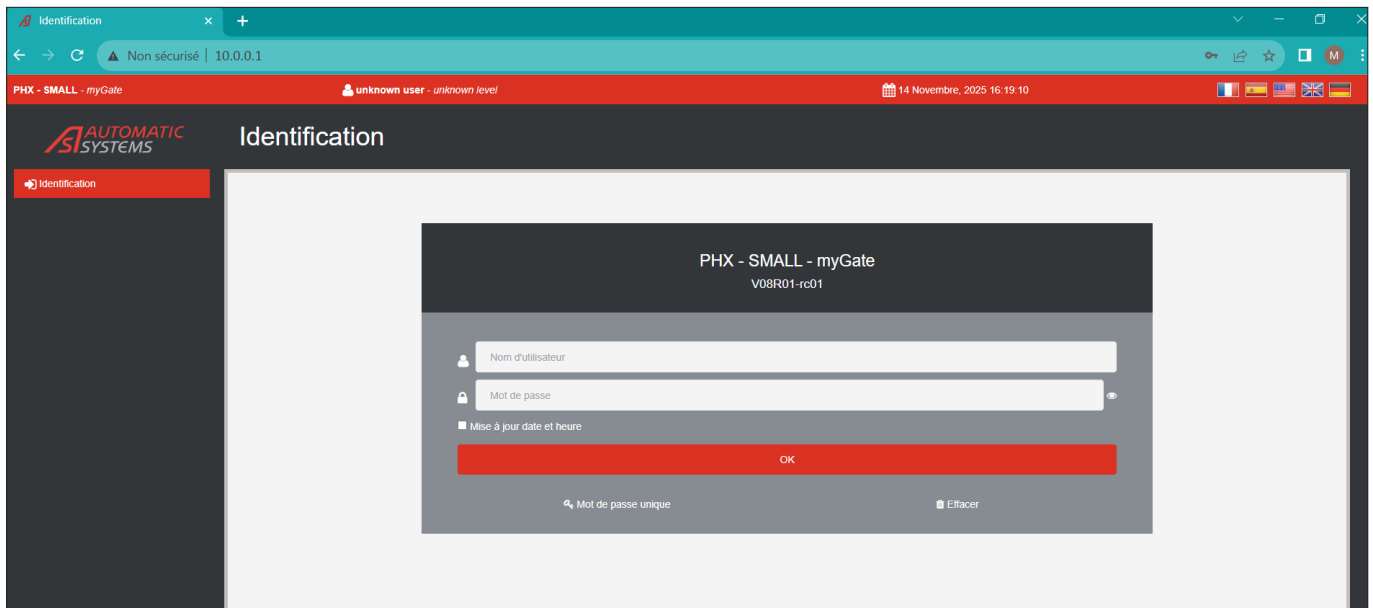
- In the Tools menu, untick the Compatibility Display option.
- In the Tools\Compatibility Display Settings menu, untick the "Display intranet sites" option in Compatibility Display
- Tap the F5 key to update the web page.

6.2. CONNECTION

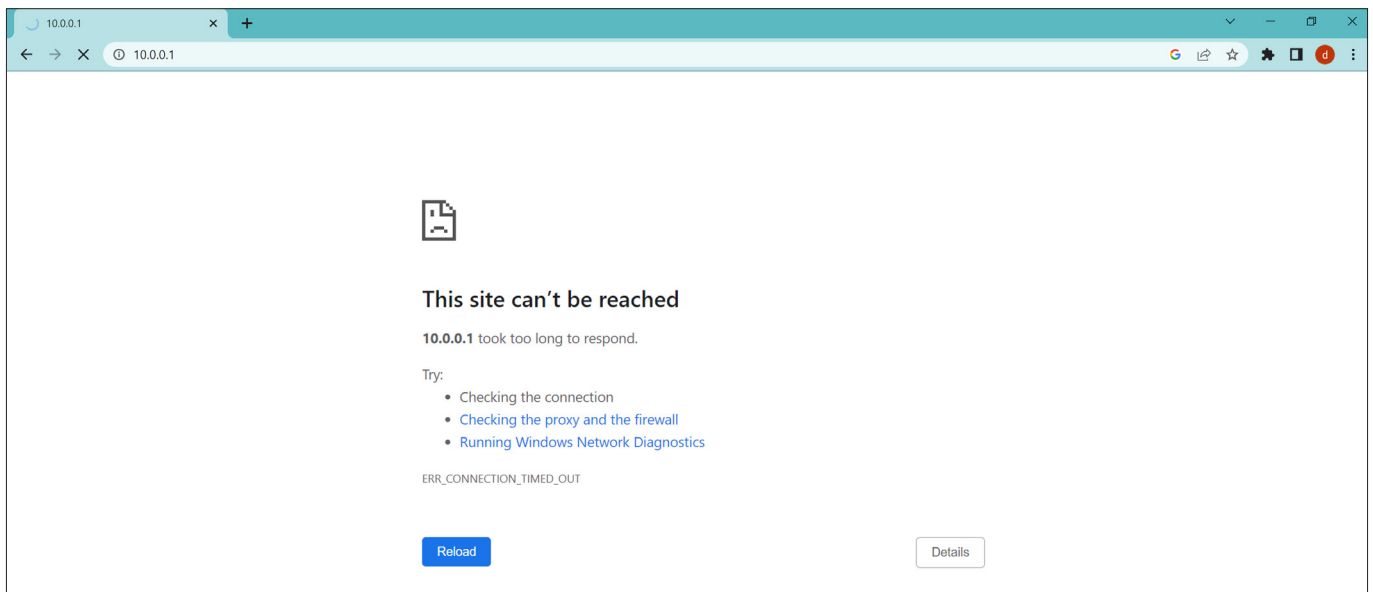
6.2.1. DIRECT USB CABLE CONNECTION

The Phoenix board's "UBS Device" connector is a mini-USB port configured to function as an Ethernet port. By connecting it to a computer using a USB cable, the computer should detect a new network connection.

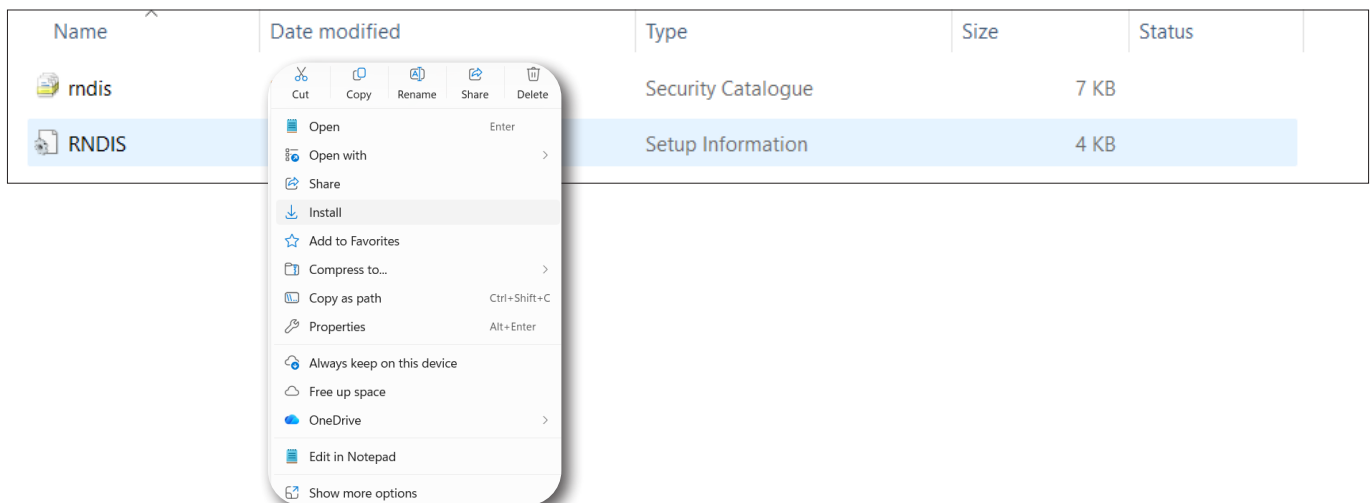
1. Connect the USB cable to the computer and your equipment.
2. When the device has been detected by the computer, try to access the equipment by entering the address **http://10.0.0.1** in the address bar of your browser. If you arrive on the status web page or the identification page of your machine, it means that your driver is already installed.



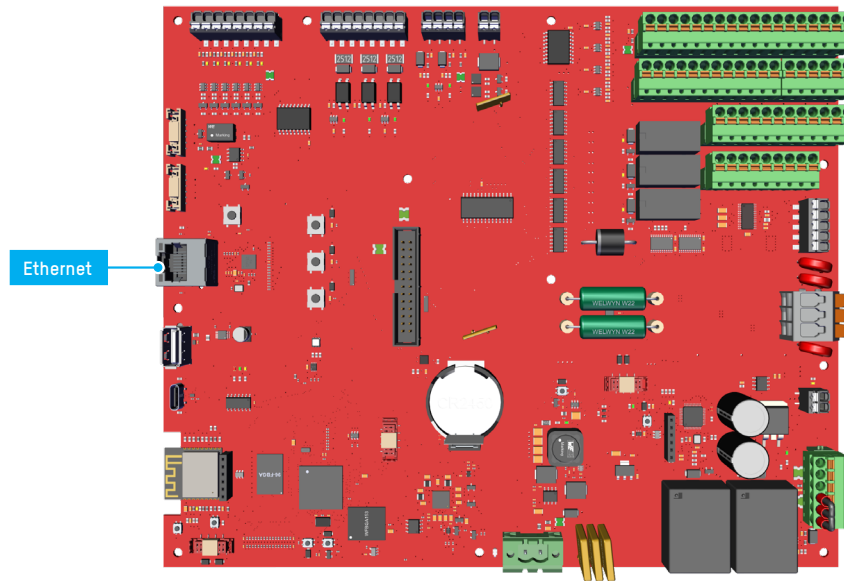
3. If you get this message:



⇒ Install the RNDIS driver (.inf file).



6.2.2. DIRECT ETHERNET CABLE CONNECTION



Connect the Ethernet port of the Phoenix board to a computer using a standard Ethernet cable.

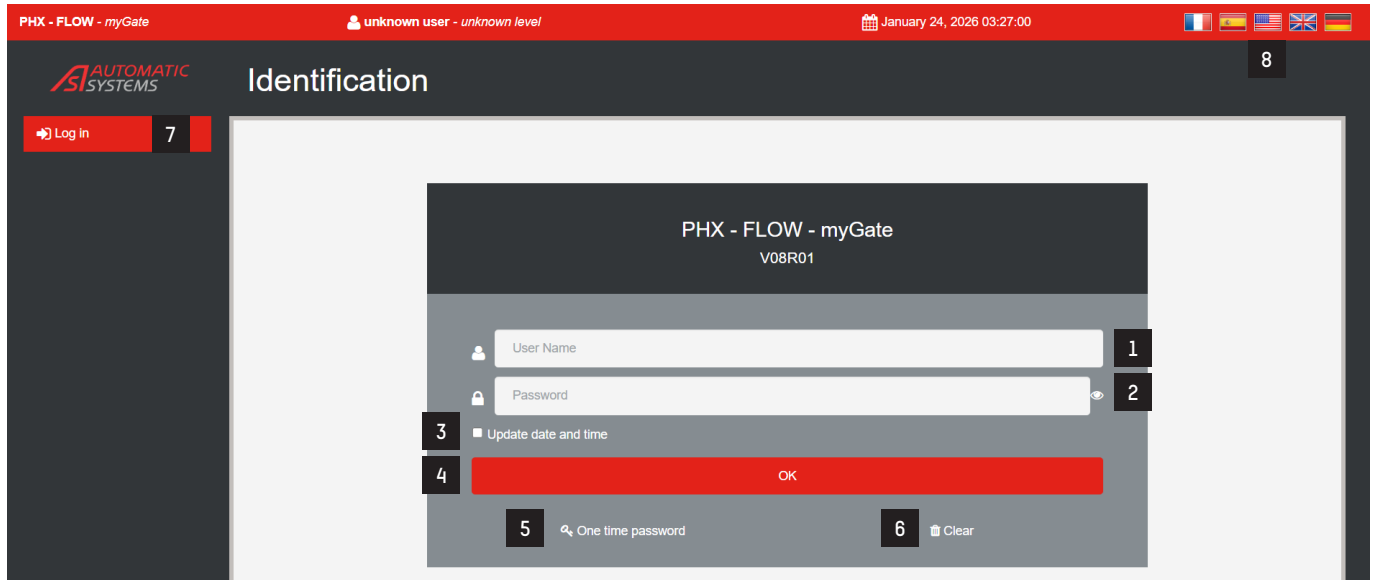
By default, the barrier has the IP address 192.168.0.200, which can be changed via the web interface's **Network** page, which also allows you to configure other settings.

The computer connected to the barrier must be configured with a static IP address on the same subnet (e.g. 192.168.0.199). The gateway address is normally irrelevant.

7. IDENTIFICATION

To access your device's maintenance interface, enter the username and password.

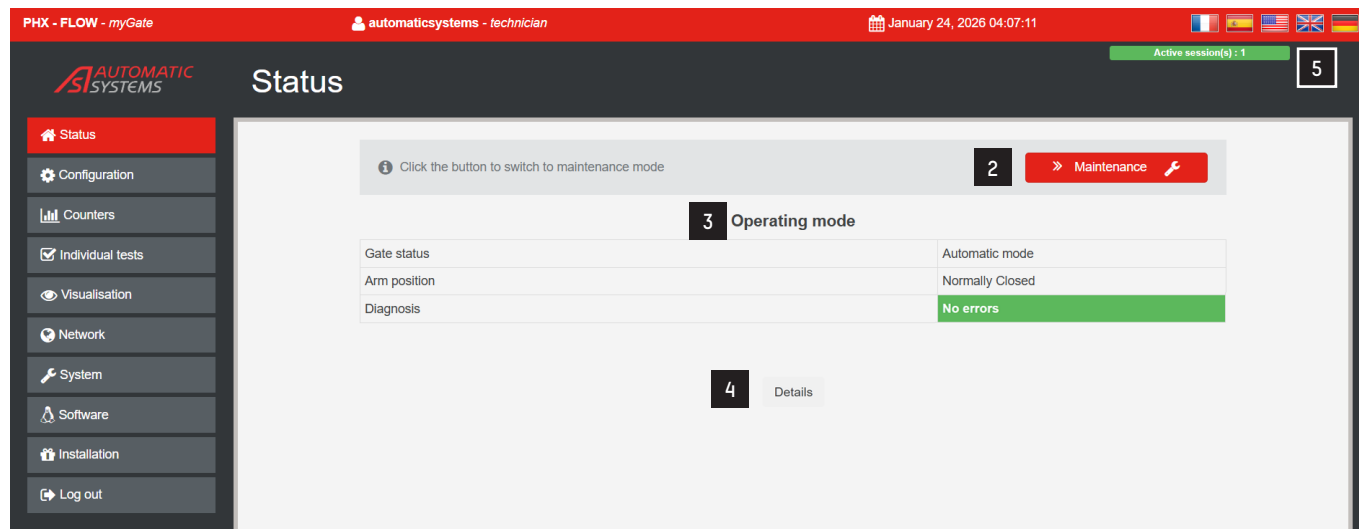
Depending on your access rights, your access to certain parameters may be limited.




WE RECOMMEND CHANGING THIS PASSWORD PROMPTLY VIA THE SYSTEM > USER MANAGEMENT PAGE.

1	"Username"	User access code input field (case sensitive).
2	"Password"	Password entry field associated with the Username (case sensitive). The password entered can be viewed via the icon.
3	"Update date and time"	Synchronisation of the CPU date and time with that of the computer accessing the maintenance interface. The time is very useful for the Logs (⇒ Chap. 14 « Page – System », page 54). The battery is essential for keeping the time updated in the event of a power outage.
4	"OK"	Validation of data entered in fields 1 and 2 and access (⇒ Chap. 8 « Page – Status », page 17)
5	"One time password"	This option generates a code to be sent to the Helpdesk to obtain a username and password. The password is only valid for one login. One time password 573871 code to be given to the Helpdesk
6	"Delete"	Deletion of data entered in fields 1, 2 and 3.
7	"Identification"	Return to the Identification screen.
8	Language	Choice of screen display language.

8. PAGE – STATUS



1	Menu	Selection of the different interface pages (⇒ see the following chapters). The menu is accessible on all pages.										
2	Maintenance	Maintenance is a specific status of the barrier. MAINTENANCE MODE IS NOT AVAILABLE FOR A "CLIENT" LEVEL ACCOUNT, BUT IS FOR "INTEGRATOR" OR HIGHER LEVELS. During maintenance, the motors are in "freewheeling" mode, and the arms can be pushed by hand. However, the different barrier components can be tested. AFTER RESET OF THE BOARD OR A POWER OUTAGE, THE DEVICE RESTARTS IN NORMAL MODE.										
3	Operating mode	Displays the detailed results of the tests below; runs continuously when the gate is powered on (however, the page is not automatically refreshed). <table><tr><td>General status</td><td>Provides information about the active mode.</td></tr><tr><td>Arm position</td><td>Displays the operating mode chosen for the arm.</td></tr><tr><td>Operating mode in direction A</td><td>Indicates the operating mode chosen for direction A.</td></tr><tr><td>Operating mode in direction B</td><td>Indicates the operating mode chosen for direction B.</td></tr><tr><td>Diagnostics</td><td>Indicates if any errors are present. These errors can be MAJOR or MINOR.</td></tr></table>	General status	Provides information about the active mode.	Arm position	Displays the operating mode chosen for the arm.	Operating mode in direction A	Indicates the operating mode chosen for direction A.	Operating mode in direction B	Indicates the operating mode chosen for direction B.	Diagnostics	Indicates if any errors are present. These errors can be MAJOR or MINOR.
General status	Provides information about the active mode.											
Arm position	Displays the operating mode chosen for the arm.											
Operating mode in direction A	Indicates the operating mode chosen for direction A.											
Operating mode in direction B	Indicates the operating mode chosen for direction B.											
Diagnostics	Indicates if any errors are present. These errors can be MAJOR or MINOR.											
4	Details	Displays your device's specifications Device family, device type, arm length, motor type, standard used, ST0, number of closing cycles/movements.										
5	Active session(s)	Displays the number of people connected on the same device. This tab is only accessible in technician mode.										

8.1. MAJOR ERROR

⇒ The barrier is **Out of service**:

- The motor is switched off.
- The brake (optional on some barriers) engages.
- The traffic lights (if present) turn red.



CAUTION: IF THE BARRIER IS NOT EQUIPPED WITH A BRAKE, THE ARM COULD RISE OR FALL AFTER THE MOTOR IS SWITCHED OFF.

If an error occurs, it will be indicated as follows:

Errors		
Error Name	Major	Minor
Motor not initialized	✗	
 One or more motor did not finish its initialisation. If the door has moved check the limit switches, if not, check if no cells are obstructed (Individual tests > IR sensors)		
The STO signal is cut.	✗	
 Please check the 2 STO inputs on your drive board.		

8.2. MINOR ERROR

⇒ The barrier remains operational, but its performance must be monitored.

The below table shows the various errors that can be displayed in the "Status" window:

Depending on the type of error, the following actions will need to be taken on the equipment:

ERROR TYPE	MINOR ERROR	MAJOR ERROR
The STO signal is disabled	-	Please check the 2 STO entries on your motor board.
CAN Communication Error	There are too many CAN boards on the bus. See the Unit Tests > Diagnostics page	One or more CAN board(s) are missing on the bus. See the Unit Tests > Diagnostics page
Defective laser detector		Defective laser detector
Motorisation error	Motor board power failure	The motor board is faulty or missing. This error should disappear after a while. If the error doesn't disappear after several minutes, press the "Reset" button on the motor board.
Hall-effect sensor error	-	The Hall-effect sensor connection is faulty; please check the wiring.
Modbus TCP fault	-	The client's MODBUS (or PC) interface is faulty; please check its operation via its maintenance interface.
Critical configuration error	Sensitive parameters have been modified. Click the button below to analyse the problem. Resolve the error.	-

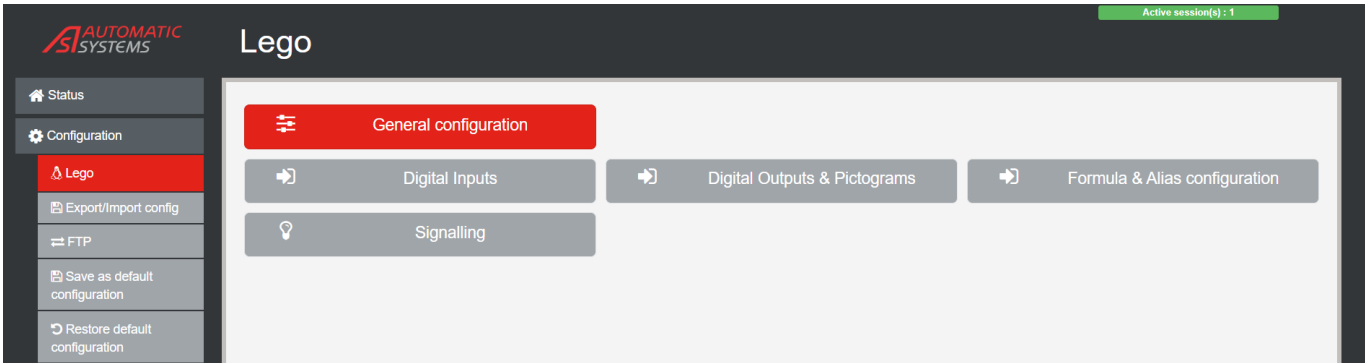
9. PAGE – CONFIGURATION

9.1. LEGO

View and modify all device operating parameters according to access rights.



Only the "Technician" user level is authorised to access LEGO mode.
All other levels have read-only access.



Actions common to the **Configuration** pages:

Show current value

Show default value

Apply new value

"Show current values"	Display or hide an additional column for the parameter values currently used by the programme.
"Show default values"	Display or hide an additional column for factory-encoded parameter values.
"Apply new values"	Saves changes as current values.



In technician mode, numbered bullets indicate which configurations on this **LEGO** page have read/write access.

29

READ MODE

WRITE MODE

2

Guest

3

Client

5

Integrator

7

Technician

9

Developer

Which means in this case:
Everyone has read access to this setting, but only developers can edit it.

9.1.1. GENERAL SETTINGS



The "★" means that this mode is set by default.

9.1.1.1. 23 GENERAL SETTINGS

These parameters are used to identify the barrier among an array of devices, for example on a control panel.

59 Initial ssetup	Type of configuration loaded into the device's memory.
59 Device family	Product family of the installed device.
59 Device type	Device model installed.
13 Device Name	Name used by the control panel to identify the barrier. ⇒ Enter the desired name.
13 Group name	Name of the group/array to which the barrier belongs. This name is used by the control panel to assign a device to an array. An array is a group of devices displayed together on the control panel (e.g. a group of devices located on the same floor). ⇒ Enter the desired name.
13 Position in the array	Barrier position in the group/array as used by the control panel. ⇒ Enter the desired number.
59 Type of arm	Reference of the type of arm used

9.1.1.2. 33 MODE CONFIGURATION

33 Operating mode	Passage operating mode	
Normally Closed ★ Locked Closed Locked Open side A Locked Open side B	Normally closed ★	The barrier is closed at rest and opens when a vehicle passes.
	Locked closed	The barrier is locked in the closed position, preventing passage in both directions.
	Locked-open mode [A/B side]	The barrier remains locked open in direction A/B without detecting any fault.

9.1.1.3. 33 OPTION CONFIGURATION

33 Option configuration		
33 Badge memorisation	No ★	▼
55 Dead-Man Moving Up	No ★	▼
55 Dead-Man Moving Down	Yes ★	▼
55 Snapped out action	Open slowly ★	▼
55 Security action	Re-Open ★	▼
55 Action once security is cleared	Re-Close ★	▼
55 Action to inhibit A	Open loops/command	▼
55 Action to inhibit B	Open loops/command	▼
55 Priority opening loop	Yes ★	▼
55 Passage counter : to	Close ★	▼
55 Parking capacity	0	
55 Counter 1 Threshold	0	
55 Counter 2 Threshold	0	
55 Electromagnetic Tip high position	No ★	▼
55 Action after power on	No action ★	▼
55 Action UPS	Opening ★	▼

33 Badge memorisation		
	Yes	⇒ Authorisations for passage in direction A/B are accumulated, allowing multiple passages without waiting for the previous one to complete before requesting another.
	No ★	⇒ Need to wait until the previous passage is completed to request the next authorisation.

55 Dead Man Moving Up		
	Yes	⇒ Continuous signal giving the opening command: Dead man = input is active when signal is high. The barrier shuts down if the signal is low.
	No ★	⇒ No signal

55 Dead Man Moving Down		
	Yes ★	⇒ Continuous signal giving the closing command: Dead man = input is active when signal is high. The barrier shuts down if the signal is low.
	No	⇒ No signal

55 Snapped out action		
Allows you to determine the action that will be carried out when a derailing is detected:		
Open slowly ★ Open - Close slowly Open - Wait Cycle Hold position None Open slowly - Wait	Open slowly ★	= The barrier opens slowly. The arm must be reset to restore normal operation of the equipment.
	Open - Close slowly	= The barrier opens and closes slowly as soon as it is rerailed. The arm must be reset to restore normal operation of the equipment.
	Open - AwWait cycle	A full cycle (opening and closing) must be completed before restarting the mechanism. The arm must be reset to restore normal operation of the equipment.
	Hold position	= The barrier holds its position. To return to normal operation, the arm must be reset and an open/close command issued.
	None	= no action is performed, the derailing is ignored. This option is useful for recording events and/or transferring them to a third-party device via a digital output or relay. The arm position must be checked and manually reset to restore normal operation.
	Open slowly - Wait	= The barrier only opens if an authorisation has been given.

55 Security action		
Allows you to define the action that is triggered when the security loops or cells become active:		
Stop Re-Open ★	Stop	The barrier is held in its position (stop).
	Re-Open ★	The barrier opens if it is in the process of closing.

55 Action once security is cleared		
Allows you to define the action triggered as soon as all security loops and cells become inactive again:		
Keep position Re-Close ★	Keep position	The barrier remains in position.
	Re-Close ★	The barrier closes.

55 Action to inhibit A/B

Action(s) that will not be executed if the inhibit input is enabled:

All commands Open loops/commands ★ Open commands Open loops Open loops+close No action	All commands (A and B)	All commands, in both directions of passage will be ignored.
	Open loops/commands ★	The action of opening loops and commands will be ignored.
	Open commands	Opening commands will be ignored.
	Open loops	The action of the opening loops will be ignored.
	Open loops + Close	The closing action that results from leaving an opening loop in Automatic mode.
	No action	No action.
 With the exception of "All commands (A and B)", all other inhibited actions are direction-specific		

55 Priority opening loop

	Yes ★	Holds the barrier open in case of closure.
	No	Does not hold the barrier open in case of closure.

55 Passage counter: to

Passages are measured, and counted from the event named below:

Close ★ Close Loop/Cell Security Loop/Cell	Close ★	When the barrier is closed, the passage counters increase.
	Close Loop/Cell	When exiting the closing loop or cell, the passage counters increase.
	Security Loop/Cell	When exiting the security loop or cell, the passage counters increase.

55 Parking capacity

Allows you to define the number of spaces available in the car park.
When the threshold is reached, the "Car park full" output is activated.

55 Counter 1 Threshold

Used to define the threshold for counter 1.
When the threshold is reached, the Counter 1 threshold output is activated.

Used to define the threshold for counter 2.
When the threshold is reached, the Counter 2 threshold output is activated.

55 Electromagnetic tip high position

	Yes	Activation of the tip support (optional) in cold weather. (Enables snow removal from the tip support)
	No ★	No activation of the tip support

55 Action after power on

Defines whether the barrier opens or remains in place during start-up.

No action ★

Opening

Closing

No action★	The barrier remains in its current position.
Opening	The barrier opens in "AUTOMATIC" mode.
Closing	The barrier closes in "AUTOMATIC" mode.



IF THE BARRIER IS IN LOCKED OPEN OR LOCKED CLOSED MODE, IT WILL OPEN OR CLOSE ACCORDINGLY, REGARDLESS OF THE MOVEMENT PARAMETER AT START-UP.



If an opening or closing command is present at start-up, it will take priority over the action after power-up.

55 Action UPS

UPS (Uninterruptible Power Supply) is a device containing a battery for assisted opening in the event of a power failure.

No action

Opening ★

Closing

Stop

No action	
Opening★	The barrier opens in the event of a power failure.
Closing	The barrier remains closed in the event of a power failure.
Stop	The barrier stops its movement.

9.1.1.4. 33 TIMER CONFIGURATION (ALL VALUES ARE IN MILLISECONDS)

33 Timer configuration (ms)

55 Crossing contact duration	500
55 Time before an auth is transformed into a held auth	0
55 Max open time if no passage	0
55 Delay after passage	2000
55 Delay before opening	0
55 Delay before closing	0
55 Delay after security	0
55 Delay after rehinging	0
55 Max Time on UPS	30000
55 Time Before UPS Action	2000

55 Crossing contact duration

Pulse duration of the "Passage contact" output. The pulse is generated when a vehicle passes.

55 Time before an authorisation is transformed into a held authorisation

55 Max open time if no passage

Time after which the barrier closes automatically if no passage has been detected.
Number between 0 and 60,000 (= 1 min).

55 Delay after passage

Delay (in milliseconds) after notification of the end of a passage through the sensor (loop or cell) before activation of the closing command.



Works as a delay before closing but only with loops and/or cells.

55 Delay before opening

Delay after receiving an opening command before the barrier actually begins to open. During this period, digital outputs have nevertheless already changed status. For example, the traffic lights have been changed to signal the opening movement that will begin.

Number between 0 and 60,000 (= 1 minute).

55 Delay before closing

Delay (in milliseconds) after receiving a closing command before the barrier actually begins to close. During this period, digital outputs have nevertheless already changed status. For example, the traffic lights have been changed to signal the closing movement that will begin.

Number between 0 and 60,000 (= 1 minute).

55 Delay after security

Additional delay (in milliseconds) during which a safety movement (reopening or stop) is maintained once all safety sensors and loops have become inactive.

Number between 0 and 60,000 (= 1 minute).

55 Delay after rehinging

Minimum delay between rehinging and any movement.

55 Max Time on UPS

Delay before the UPS is turned off, using the "UPS stop" output,

55 Time before UPS Action

Delay between the power failure (or power outage) and the "UPS Action" (see Options configuration above).

9.1.1.5. 33 MOTOR SETTINGS

33 Motor settings		
25	Opening speed (%)	100
25	Closing speed (%)	100
55	Snap Out Opening speed (%)	50
55	Number of retrials in case of blocked obstacles	1
55	Action after blocking	Stop ★
33	Time between trials or after an unexpected door motion (in milliseconds)	5000
55	Wait period after the appearance of a major motorization error (ms)	10000
55	Wait period after unexpected door movement (ms)	1000
55	Standard opening angle	85

25 Opening speed (%)

Adjustment of the opening speed as a percentage of the maximum value recorded for the installed product. 100% corresponds to the fastest opening speed.

25 Closing speed (%)

Adjustment of the closing speed as a percentage of the maximum value recorded for the installed product. 100% corresponds to the fastest closing speed.

55 Snap Out Opening speed (%)

Adjustment of opening time as a percentage of the maximum value recorded for the installed product (default: 50%). 100% corresponds to the fastest opening speed.

55 Number of retrials in case of blocked obstacles

Allows you to set the maximum number of closure attempts, at slow speed, when a locking of the arm is detected. There are no multiple attempts if the opening movement is locked. In this case, the barrier goes into error mode after a delay.



THIS OPTION CAN ONLY BE USED BY A QUALIFIED TECHNICIAN. INCORRECT SETTINGS CAN RENDER THE EQUIPMENT INOPERATIVE.

55 Action after blocking

Stop ★

Open then close

Stop ★

Open then close

After locking, the barrier stops.

After locking, the barrier opens fully and then closes.

33 Time between trials or after an unexpected door motion (in milliseconds)

Time between the different closure attempts in accordance with the "Action after locking" parameter.

55 Wait period after the appearance of a major motorization error (in milliseconds)

Recovery time after a major motorisation error.

55 Wait period after unexpected door movement (ms)

Defines the delay after a forced barrier opening before it closes.

55 Standard opening angle

Indicates the arm's angle relative to the horizontal.

9.1.1.6. 13 CLIENT COMMUNICATION SETTINGS

13 Client Communication settings		
13 TCP Modbus time out		0
13 XMLRPC time out		0
55 Modbus Enable		No ★
55 MDB Word 1 (R)		101
55 MDB Word 2 (R)		102
55 MDB Word 3 (R)		103
55 MDB Word 4 (R)		104
55 MDB Word 5 (R)		105
55 MDB Word 6 (R)		106
55 MDB Word 7 (R)		107
55 MDB Word 8 (R)		108
55 MDB Word 9 (R)		109
55 MDB Word 10 (R)		110
55 MDB Word 11 (R)		111
55 MDB Word 12 (R)		112
55 MDB Word 13 (R)		113
55 MDB Word 14 (R)		114
55 MDB Word 15 (R)		115
55 MDB Word 16 (R/W)		116
55 MDB Word 17 (R/W)		117
55 MDB Word 18 (R/W)		118
55 MDB Word 19 (R/W)		119
55 MDB Word 20 (R/W)		120

CONFIGURATION	DESCRIPTION	
TCP Modbus timeout	If the Modbus TCP communication does not receive information before the end of the defined timeout, the barrier shows an error.	
XMLRPC timeout	If the XMLRPC communication does not receive information before the end of the defined timeout, the barrier shows an error.	
Modbus Enable	Modbus is a master-slave communication mode: the master sends a request to a slave, and the slave responds to that request. The user has read (R) or read/write (R/W) access to a word table indicating the status of inputs, outputs, sensors, active programme variables, allocations, timers, the frequency inverter programme, etc. Some system words are read-only to prevent board malfunctions.	
	Yes	Modbus enabled
	No ★	Modbus is not enabled
MDB Word 1 ⇔ 15 (R)	The address of the words is configurable.	
MDB Word 16 ⇔ 20 (R/W)	The address of the words is configurable.	

9.1.2. DIGITAL INPUTS

Digital Inputs

Motor

Input

Input 01 Power Fail Detection ★

I/O

Input

Input 01 Badge (direction A) ★

Input 02 Close ★

Input 03 Locked Open side A ★

Input 04 Locked Closed ★

Input 05 Close Loop/Cell ★

Input 06 Open Loop B ★

Input 07 Security Loop/Cell ★

Input 08 Disabled ★

HMI

Input

Input 01 Badge (direction A) ★

Input 02 Stop ★

Input 03 Close ★

Unhinging
 Stop
 Manual mode
 Open (manu mode)
 Close (manu mode)
 Local Mode
 Open (local mode)
 Close (local mode)
 Latching switch
 Open Loop B
 Validation Loop B
 Authorization Terminal B
 Inhibit B side
 Limit Switch Opened
 Limit Switch Closed
Power Fail Detection ★

Normally Opened ★

Normally Opened ★ 2

Normally Closed

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

Normally Opened ★

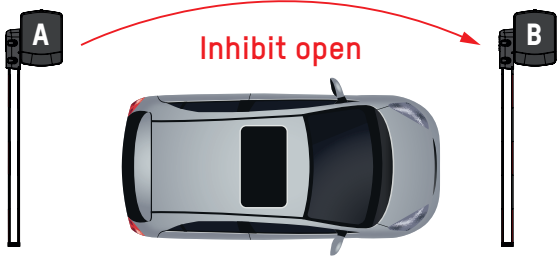
Normally Opened ★

Normally Opened ★

3
Save
Clear
4

ITEM	CONFIGURATION	DESCRIPTION
1	Disabled	Input disabled.
	Maintenance switch	Switches to Maintenance.
	Badge (direction A/B)	Authorises passage in the chosen direction.
	Locked open (side A/B)	The barrier remains locked open in direction A/B, overriding authorisations.
	Locked closed	The barrier is locked in the closed position, preventing passage in direction A/B.
	Client input 1 / 2 / 3 / 4 / 5 / 6	Input that serves no purpose from a functional point of view but is used in logical combinations (for client hardware). Also accessible by XMLRPC.
	Closing	To give a closing command.
	Close Loop/Cell	The barrier closes when the closing loop or closing cell becomes inactive. It also acts as a security loop, with the safety action set to "Close".
	Security Loop/Cell	Prevents the barrier from closing when the loop or cell is activated. Is only active when the barrier is closing. Also configure the associated Security Action and Post-Security Action settings..
	Open Loop A	The barrier opens when the loop is active. When the loop becomes inactive, the barrier closes if there are no other active loops and the barrier is set to "Automatic" mode.
	Open Loop B	For a two-way barrier, opening loop type entry for the B to A direction of passage .
	Validation loop A	This type of loop is used in conjunction with an authorisation terminal input to open the barrier. The barrier will only open if the authorisation terminal input and validation loop are active at the same time. In the case of multiple authorisation terminals and/or multiple validation sensors/loops, only one terminal and one sensor/loop need to be active at the same time. In the absence of an authorisation terminal, this loop will have no function of its own or safety action.
	Validation loop B	For a two-way barrier, validation loop type input for the B to A direction of passage. Works in conjunction with the Authorisation terminal B inputs.

27

ITEM	CONFIGURATION	DESCRIPTION
1	Authorisation terminal A	This input is used to open the barrier in conjunction with a validation sensor or loop (see Parameters above). The barrier will only open if the authorisation terminal and a validation input are active at the same time. In the case of multiple authorisation terminals and/or multiple validation sensors/loops, passage authorisation is granted when one terminal and one sensor/loop are active at the same time.
	Authorisation terminal B	For a two-way barrier, Authorisation terminal input type for the B to A direction of passage. Works in conjunction with Validation sensor/loop B inputs. This distinction between direction A and direction B authorisation also allows consistent management of traffic lights in both directions of passage.
	Inhibit A side	Allows you to disregard requests to open other digital entries. Also configure the associated parameter "Action to inhibit" (⇒ Chap. 9.1.1.3, page 20). This function is useful, for example, when configuring two airlock or bidirectional barriers to prevent entry and/or exit.   Locked open and/or Locked closed commands always take precedence over the Inhibit command. This function blocks the opening commands in direction A, but lets the barrier function normally in direction B.
	Inhibit B side	This function blocks the opening commands in direction B, but lets the barrier function normally in direction A.
	Snap Out	Connection for a potential arm derailment sensor. Also configure the associated "Snapped out action" parameter (⇒ Chap. 9.1.1.3, page 20)
	Stop	This input immediately stops the barrier's movement (emergency stop).
	Manual mode	If the input is active, all loops are disabled (except for their safety function). Movement is only possible via manual commands. Dead Man mode for opening (manual mode) and/or closing (manual mode) is possible.
	Opening (manual mode)	Input for opening command in manual mode only .
	Closing (manual mode)	Input for closing command in manual mode only .
	Local mode	If the input is active, all loops are disabled (except for their safety function). Movements are only possible via local commands. Dead Man mode for opening (local mode) and/or closing (local mode) is possible.
	Open (local mode)	Input for opening command in local mode only .
	Close (local mode)	Input for closing command in local mode only .
	Latching switch	This Input is used to control the opening and closing of the barrier in the case of a 1-Wire command. Each movement is always a complete cycle. With each pulse on the input, the command alternates between opening and closing.

ITEM	CONFIGURATION	DESCRIPTION
1	Limit Switch Opened	This allows the customer to control the limits using a proprietary switch.
	Limit Switch Closed	This allows the customer to control the limits using a proprietary switch.
	Power Fail Detection failure	When this input becomes active, the UPS action is implemented. Also configure the associated "UPS action" parameter (⇒ Chap. 9.1.1.3, page 20)).
	Laser sensor – Safety field	Used to test the BEA laserscan (⇒ Laserscan output – Test)
	Reset Capacity	Resetting the vehicle counter in the car park to zero.
	Reset Counter 1/2 to 0	Each input pulse resets counter 1 or counter 2.
	Increment Counter 1/2	Each input pulse increments counter 1 or counter 2.
	Decrement Counter 1/2	Each input pulse decrements counter 1 or counter 2.
	Double gate Loop A/B	Airlock loop input, A/B side. ⇒ airlock direction output.
	Lock arm	Locks the arm at the end of its current movement.
	Virtual remote control switch	Allows you to create a virtual remote switch.
2	Type of contact	Normally open ★ Normally closed
3	"Save"	Saves the modified values.
4	"Delete"	Allows you to revert to default values.

Some inputs are set by default on certain modules such as "Motor Board" and "HMI".

Motor		
Input		
Input 01	Power Fail Detection ★	Normally Opened ★
HMI		
Input		
Input 01	Badge (direction A) ★	Normally Opened ★
Input 02	Stop ★	Normally Opened ★
Input 03	Close ★	Normally Opened ★

9.1.3. DIGITAL OUTPUTS AND PICTOGRAMS

Digital Outputs & Pictograms		
Output		
Digital Outputs 01	Boom LEDs *	Customer output 1
Digital Outputs 02	Green Lights *	Customer output 2
Digital Outputs 03	Red Lights *	Customer output 3
Digital Outputs 04	Disabled *	Customer output 4
Digital Outputs 05	Open Command *	Customer output 5
Digital Outputs 06	Close Command *	Customer output 6
Digital Outputs 07	Disabled *	Customer output 7
Digital Outputs 08	Siren *	Customer output 8
Digital Outputs 09	Gyrophare *	Customer output 9
Digital Outputs 10	Green Boom Lights *	Green Lights
Digital Outputs 11	Red Boom Lights *	Red Lights
Digital Outputs 12	Disabled *	Green Lights A
Relay 01	Signal when open *	Red Lights A
Relay 02	Signal when closed *	Green Lights B
Relay 03	Signal when error *	Red Lights B
Strip Led 01	Red Lights B *	Green Boom Lights
Strip Led 02	Green Lights B *	Red Boom Lights
Strip Led 03	Disabled *	Boom LEDs *
Strip Led 04	Red Lights A *	
Strip Led 05	Green Lights A *	
Strip Led 06	Disabled *	
HMI		
Output		
Output 01	Close Command *	Normally Opened *
Output 02	Open Command *	Normally Closed *
Output 03	Stop Command *	Normally Opened *

ITEM	CONFIGURATION	DESCRIPTION
1	Disabled	Input disabled.
	Technical error (Major and Minor)	Contacts for major and minor technical errors.
	Technical error (Major)	Contacts for major technical errors.
	Technical error (Minor)	Contacts for minor technical errors.
	Crossing contact direction A	Sends a pulse when passing from A to B.
	Crossing contact direction B	Sends a pulse when passing from B to A.
	Unexpected movement fraud	Contact meaning that the arm unexpectedly lifted in the closed position.
	Arm blocked	Contact meaning that the arm is blocked.
	Client output 1 to 9	Allows activation of a specific client output via the XML-RPC protocol.
	Green lights	Green light activation command.
	Red lights	Red light activation command.
	Green lights A/B	Green light activation command in direction A or B.
	Red lights A/B	Red light activation command in direction A or B.

ITEM	CONFIGURATION	DESCRIPTION
1	Green/Red arm lights	Command to activate the LED strip (green or red) fixed under the arm. Also define the lamp operating mode (off, steady, blinking) for arm movement, open and closed positions (⇒ chapter LEGO ⇒ Signalling)
	LEDs on arm	Command to activate the arm lighting mounted on the arm. Also define the lamp operating mode (off, steady, blinking) for arm movement, open and closed positions (⇒ chapter LEGO ⇒ v)
	Gyrophare	Control for activating the gyrophare (rotary light) mounted on the hood. Also define the lamp operating mode (off, steady, blinking) for arm movement, open and closed positions (⇒ chapter LEGO ⇒ Signalling)
	Siren	Audible alarm activation command mounted on the barrel. Also define the lamp operating mode (off, steady) for arm movement, open and closed positions (⇒ chapter LEGO ⇒ Signalling).
	Open Command	Opening command sent by the barrier to slave equipment. The time at which the signal is sent to the slave is defined by the "Include Delays" option.
	Open Command A	Specific opening command in direction A.
	Open command B	Specific opening command in direction B.
	Close Command	Closing command sent by the barrier to slave equipment. The time at which the signal is sent to the slave is defined by the "Include Delays" option.
	Stop Command	Stop command sent by the barrier to slave equipment.
	Parking Full	The output is active when the car park has reached its maximum capacity.
	Counter 1 Threshold	The output is active when the corresponding counter 1 has reached its threshold.
	Counter 2 Threshold	The output is active when the corresponding counter 2 has reached its threshold.
	UPS stop	The UPS stop command.
	Laser sensor - Test	In combination with the Laser Detector – Safety field input, it allows testing of the BEA Laserscan.
	Electromagnetic Tip Support	Optional tip support activation command.
	Signal when closed	Output signal when the barrier is closed.
	Signal when open	Output signal when the barrier is open.
	Signal when open (A/B)	Output signal when the barrier is open on the A/B side.
	Signal when locked open (A/B)	Output signal when the barrier is Locked open on the A/B side.
	Signal when stopped	Output signal when the barrier is stopped.
	Signal when moving up (A/B)	Output signal when the barrier is opening on the A/B side.
	Signal when moving down	Output signal when the barrier is closing. If the delay before closing is not zero, the signal is triggered before movement starts.
	Signal when in maintenance	Output signal when the barrier is undergoing maintenance.  During unit tests, this parameter is ignored on the Outputs screen when displaying or changing output status.
	Signal when error	Output signal when the barrier is showing an error.
	Double gate Direction A ⇒ B / B ⇒ A	In combination with the Airlock Direction A and Airlock Direction B inputs, defines output activation based on the passage direction over the loops: A ⇒ B, B ⇒ A.

ITEM	CONFIGURATION	DESCRIPTION
1	Active security	Output active when a closing security loop or cell is active.
	Virtual remote control switch	Output is active when the virtual remote control switch is active.
	Closing: early reporting	Signals closing as soon as a closing loop becomes active, before the barrier starts to close. The output changes as soon as a vehicle begins to pass under the barrier, rather than waiting for it to fully pass. Only the status of the output has changed, the barrier will always wait until the vehicle has left the closing loop before closing.
	Signal: Opening notice A	Signal active between the opening command and opening during the opening time in direction A.
	Signal: Opening notice B	Signal active between the opening command and opening during the opening time in direction B.
	Snap Out	Copy of the "Snap Out" input.
	Signal: Closure notice	Signal activated as soon as a vehicle enters the closing loop.
2	Customer formula output 1 to 9	(⇒ Chap. 9.1.4, page 33)
	Customer MDB output 1 to 9	Allows activation of a specific client output via the MODBUS protocol.
3	Type of contact	Normally Opened ★ Normally Closed
4	"Save"	Saves the modified values.
5	"Delete"	Allows you to revert to default values.

9.1.4. CONFIGURATION OF FORMULAS AND ALIASES

Customer Inputs	Aliases			
Client 1	< No alias yet >		1 Edit	Reset
Client 2	< No alias yet >		Edit	Reset
Client 3	< No alias yet >		Edit	Reset
Client 4	< No alias yet >		Edit	Reset
Client 5	< No alias yet >		Edit	Reset
Client 6	< No alias yet >		Edit	Reset
Customer Outputs	Formulas			
Client Formula 1	< No formula yet >		2 Edit	Reset
Client Formula 2	< No formula yet >		Edit	Reset
Client Formula 3	< No formula yet >		Edit	Reset
Client Formula 4	< No formula yet >		Edit	Reset
Client Formula 5	< No formula yet >		Edit	Reset
Client Formula 6	< No formula yet >		Edit	Reset
Client Formula 7	< No formula yet >		Edit	Reset
Client Formula 8	< No formula yet >		Edit	Reset
Client Formula 9	< No formula yet >		Edit	Reset

Warning:
In order to apply the new values, a restart of the software is needed.

4 Restart all applications

ITEM	CONFIGURATION	DESCRIPTION
1	"Edit"	Allows you to give a name to the field Formula builder Signal type: input_Client1 Enter alias name: (alphanumeric & space allowed) Submit formula
2	"Edit"	Allows you to create client formulas Form Elements Operators: (___ AND ___) (___ OR ___) (___ XOR ___) NOT ___ (IF ___ THEN ___ ELSE ___) True False Clocks: Clock 1000ms Clock 500ms Clock 200ms Inputs configured: Badge (direction A) Locked Open side A Locked Closed Close Close Loop/Cell Security Loop/Cell Stop Open Loop B Power Fail Detection Other inputs (not configured on an entry): ▶ Outputs: Technical error (Major and Minor) Technical error (Major) Technical error (Minor) Crossing contact direction A Crossing contact direction B Unexpected movement fraud Bar blocked Customer output 1 Customer output 2 Customer output 3 Customer output 4 Customer output 5 Customer output 6 Customer output 7 Customer output 8 Customer output 9 Green Lights Red Lights Green Lights A Red Lights A Green Lights B Red Lights B Green Boom Lights Red Boom Lights Boom LEDs Gyrophare Siren Open Command Open Command A Open Command B Close Command Stop Command Parking Full Counter 1 Threshold Counter 2 Threshold UPS Shutdown Laser sensor - Test Electromagnetic Tip Support Signal when closed Signal when open Signal when open (A) Signal when open (B) Signal when locked open A Signal when locked open B Signal when stopped Signal when moving up (A) Signal when moving up (B) Signal when moving down Signal when in maintenance Signal when error Double gate Direction A→B Double gate Direction B→A Active security Virtual remote control switch Signal: Opening notice A Signal: Opening notice B Closing: early reporting Signal: Closure notice Unhinging Customer formula output 1 Customer formula output 2 Customer formula output 3 Customer formula output 4 Customer formula output 5 Customer formula output 6 Customer formula output 7 Customer formula output 8 Customer formula output 9 Customer MDB output 1 Customer MDB output 2 Customer MDB output 3 Customer MDB output 4 Customer MDB output 5 Customer MDB output 6 Customer MDB output 7 Customer MDB output 8 Customer MDB output 9 Formula builder Signal type: output_FormulaClient1 Enter alias name: (alphanumeric & space allowed) Build Your Formula here by drag & dropping elements Submit formula Paste your formula to parse here Parse Formula
3	"Reset"	Deletes the recorded data.
4	Restart all applications	Restarts application of the selections.

9.1.5. SIGNALLING

Signal type

Green Lights

1



Configuration

2

Period: 200ms
Opening A: Off
Opening B: Off
Closing: Off
Early reporting: Yes

Red Lights



Period: 200ms
Opening A: On
Opening B: On
Closing: On
Early reporting: Yes
Early opening: No

Green Lights A



Period: 200ms
Opening A: Off
Closing: Off
Early reporting: Yes

Warning:

In order to apply the new values, a restart of the software is needed.

Restart all applications

4

Lights simulator

Opening A

Open A

Opening B

Open B

Closing

Close

Stop

Snap Out

3

SIGNAL TYPE

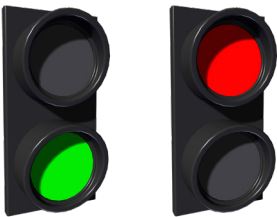
1

Green lights - Red lights:

A traffic light for both directions of passage (A and B)

Green lights A/B - Red lights A/B:

The behaviours of the lights are specific to the direction of passage (only one direction of passage at a time).



Green boom lights/Red boom lights



Boom lights



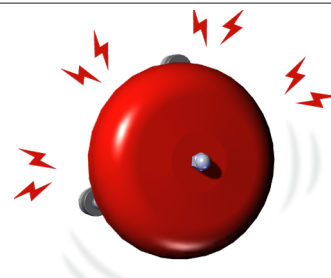
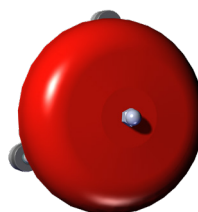
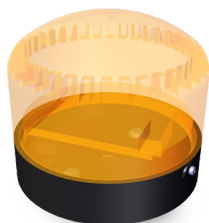
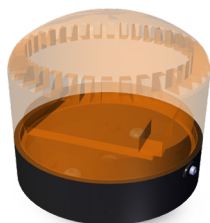
SIGNAL TYPE

1

Gyrophare

Siren

The Gyrophare and/or siren are usually activated during opening in direction A or B, as well as during closing.



CONFIGURATION

2

Period	Length of the pulse to be sent or flashing period (in ms). Choice between 3 times: 200ms, 500ms and 1,000ms.
Opening A	Three operating modes for the lights are possible: • Off: inactive output. • On: active output. • Blink: switches between active and inactive (0/1) according to the period defined in the Period parameter above.
Opening B	
Closing	
Early reporting	Signals closing as soon as a closing loop becomes active, before the barrier starts to close. The output changes as soon as a vehicle begins to pass under the barrier, rather than waiting for it to fully pass. Only the status of the output has changed, the barrier will always wait until the vehicle has left the closing loop before closing. Possible choices: - No: normal transition = after closing loop. - Yes: early transition = on closing loop.
Early opening	FOR RED LIGHTS ONLY. As soon as there is an opening command, the red light can be turned off.

LIGHTS SIMULATOR

3

Allows simulation of the selected configuration on the web page without affecting actual outputs.

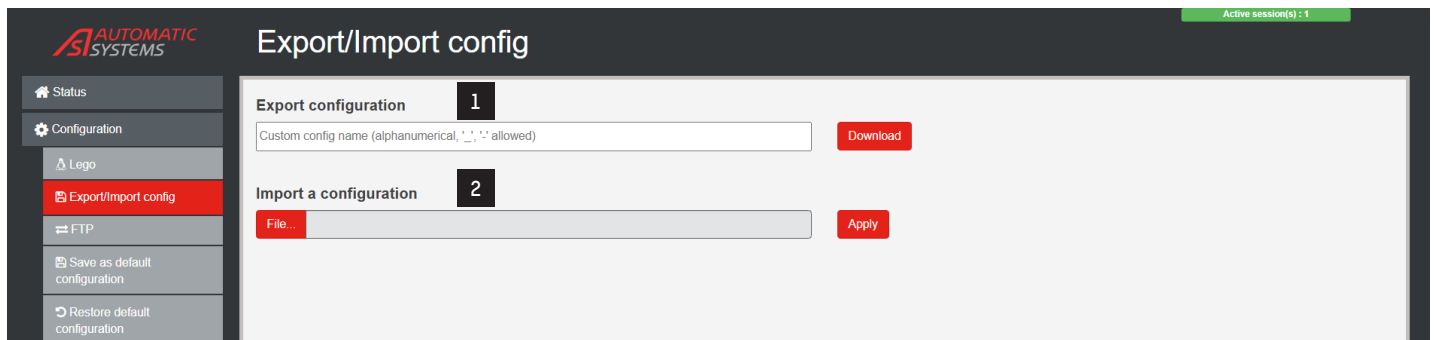
RESTART ALL APPLICATIONS

4

Restarts application of the selections.

9.2. EXPORT/IMPORT CONFIG

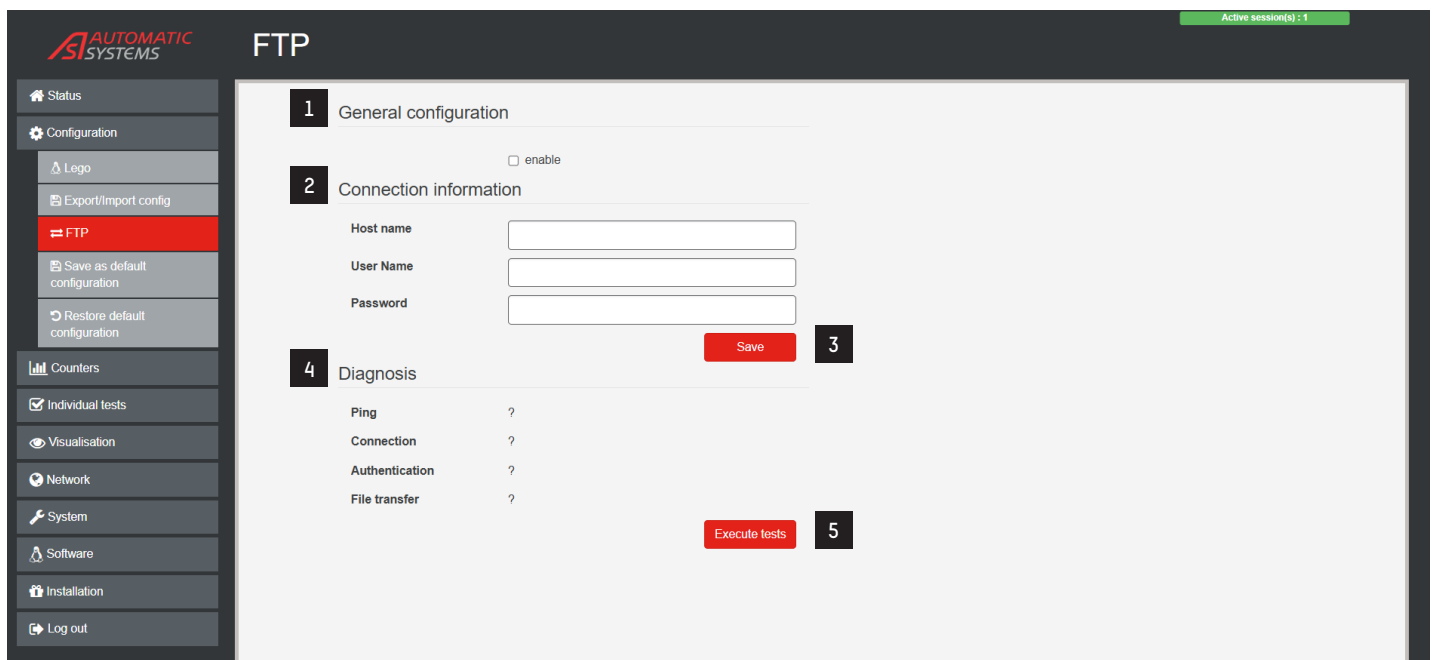
This page allows you to export or import all operating parameters from one device to another.



ITEM	CONFIGURATION	DESCRIPTION
1	Export configuration	The Download button allows you to export your device's current configuration to a protected file.
2	Import configuration	The Apply button allows you to import an exported file from one device and replicate its configuration on another device.

9.3. FTP

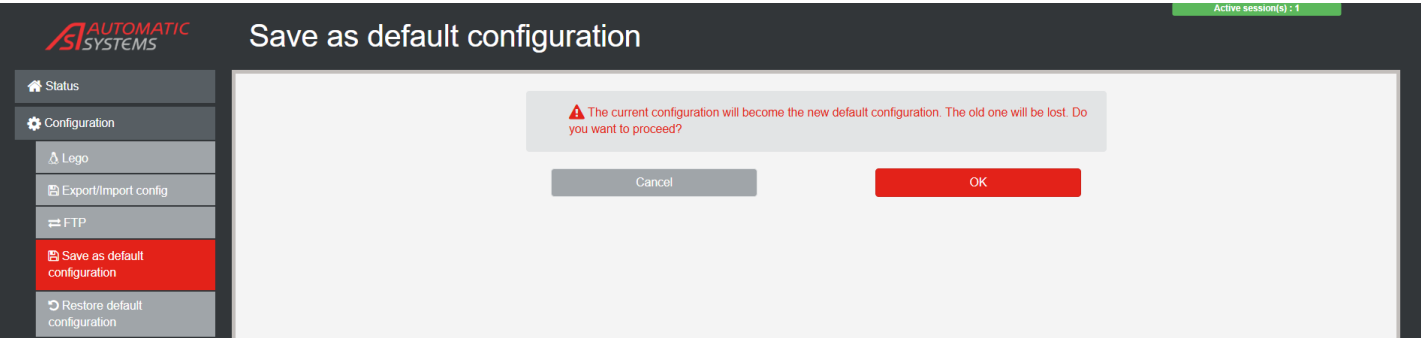
Allows the exchange of commands and data between a computer or software, the FTP client, and a server, the FTP host.



ITEM	CONFIGURATION	DESCRIPTION
1	General configuration	Activate the FTP connection via the "enable" button.
2 3	Connection information	Configure the FTP connection and save its values via the Save button.
4 5	Diagnosis	Allows you to view FTP line parameters and run diagnostics using the Execute tests button.

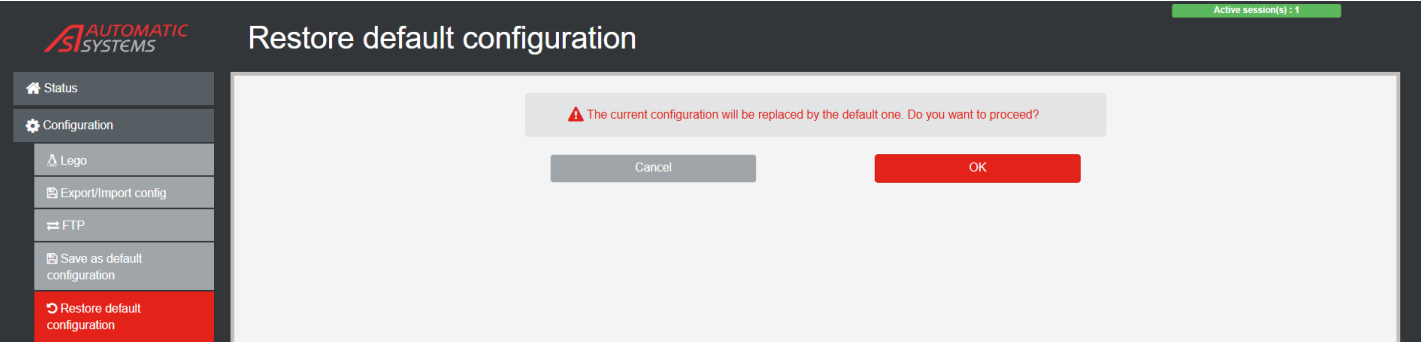
9.4. SAVE AS DEFAULT CONFIGURATION

Allows you to save current values as default values.



9.5. RESTORE DEFAULT CONFIGURATION

This page restores default values based on the last saved default configuration.



10. PAGE – COUNTERS

The **Counters** page lists the various available counters:

1	Counter name	2	Perpetual counter	3	Main counter	4	Partial counter	5
	Number of authorisations in direction A	8		8		8		
	Number of authorisations in direction B	0		0		0		
	Crossings in direction A	1		1		1		
	Crossings in direction B	0		0		0		
	Time since application start-up	/		0 days 02:25:57		0 days 02:25:57		
	Number of cycles/closing movement (left motor)	341		341		341		
	Total running time (s)	0 days 21:57:29		0 days 21:57:29		0 days 21:57:29		
	Total failure time (s)	0 days 11:41:29		0 days 11:41:29		0 days 11:41:29		6
	Effective Running Time (s)	0 days 10:16:00		0 days 10:16:00		0 days 10:16:00		
	Counter 1	0		0		0		
	Counter 2	0		0		0		
	Vehicles in lot	1		1		0		
	Unhinging	0		0		0		

ITEM	CONFIGURATION	DESCRIPTION
1	Counter name	
	Number of authorisations in direction A	Number of passage authorisations from A ⇒ B that have been given.
	Number of authorisations in direction B	Number of passage authorisations from B ⇒ A that have been given.
	Crossings in direction A	Number of passages between the origin and destination loops as defined in the settings on the Configuration > Option configuration > Passage counter: from .
	Crossings in direction B	Number of passages between the destination and origin loops as defined in the settings on the Configuration > Option configuration > Passage counter: to .
	Time since application start-up	Time elapsed since the start of the application.
	Number of cycles/closing movement	Number of (opening + closing) cycles performed.
	Total running time (sec)	Total operating time of the logic.
	Total failure time (sec)	Number of times the barrier has shown an error following detection of a major error (see Status page).
	Effective running time (sec)	Real-time operation of the logic.
	Counter 1	Counter managed entirely by the user. It can be incremented, decremented, reset to zero, or used to activate an output based on a threshold.
	Counter 2	Counter managed entirely by the user. It can be incremented, decremented, reset to zero, or used to activate an output based on a threshold.
	Vehicles in lot	The programme counts the number of vehicles that have passed in direction A (Crossings) minus those that have passed in direction B (Passages in the opposite direction). This counter is linked to the Parking capacity parameter defined in the settings on the Option configuration page. As with the other counters, this counter can be reset to zero by clicking on the bin.
	Unhinging	Number of times the barrier has failed following the detection of a derailing of the arm (= arm has come out of its socket).
2	"Perpetual counter"	Counter cannot be reset to zero.
3	"Main counter"	Counter that can be reset to zero depending on the user's access level (⇒ Identification page), by clicking on the Bin icon.

ITEM	CONFIGURATION	DESCRIPTION
4	"Partial counter"	Counter that can be reset to zero depending on the user's access level (⇒ Identification page), by clicking on the Bin icon.
5		Reset all main/partial counters.
6		Reset the selected main/partial counter.

11. PAGE – INDIVIDUAL TESTS



Individual tests

Active session(s) : 1

- Status
- Configuration
- Counters
- Individual tests**
- Visualisation
- Network
- System
- Software
- Installation
- Log out

Error: Before doing Individual Tests, you must switch to Maintenance Mode. Please, click the button to change mode.

[» Maintenance](#)



Access to this page requires being in Maintenance mode.
⇒ To access Maintenance mode, click the button

[» Maintenance](#)



Diagnosis



Inputs and thermal sensors



Outputs and pictograms



Movement

11.1. DIAGNOSIS

11.1.1. CAN BUS

CAN bus ✓

CAN0 ✓

ETH0 ✓

Usb0 ✓

Battery ✕

can0	1	2	3	4	5	6	7	8
Board name	Board type	Board address	Product code	Revision number	AutoTest	Status	Result	
Motor	AS1998 – Generic Motor card	0x60 (00000111)	1998	T00E00V01R07	OK	Operational (0x05)	OK	✓

Displaying information about the elements present on the CAN bus:

ITEM	CONFIGURATION	DESCRIPTION
1 + 2	"Board name" + "Board type"	Item identification/number (ASxxxx) of the electronic board expected on the bus.
3	"Board address"	Actual address of the board in question on the CAN bus (as seen by the programme). This address must be identical to the expected address (⇒ Configuration > Lego > Interface).
4	"Product code"	Item number of the board actually present on the bus (must be the same as that of the column 2).
5	"Revision number"	Version and revision indices of the installed board. In parentheses, the expected indices if a newer version exists. When the actual and expected indices are different, the message " Invalid revision number " appears in the column 8 .
6	"Auto Test"	Board functionality test result: • OK ⇒ all the elements of the board work correctly. • N/A (Not Applicable) ⇒ the test has not been performed on this board. • Other wording ⇒ indication of the defective element on the board.
7	"Status"	Board status: • Operational ⇒ the board is live and ready to communicate on the CAN bus. • Pre-operational ⇒ the board is active but not receiving a signal from the master. If the error persists after trying again (exit + return to this screen), restart the barrier. • Booting ⇒ the board is in the start-up phase. • Stopped ⇒ the board programme has stopped; a barrier restart is required.
8	"Result"	Diagnostic result: a. OK ⇒ the board works correctly on the CAN bus. b. Multiple use of the same address ⇒ several boards use the same address on the CAN bus (column) ⇒ configure each board as indicated on the electrical diagrams. c. Extra Board ⇒ an unexpected board is detected on the bus ⇒ check the names, types, addresses, etc. of each board. d. Invalid status ⇒ restart the barrier. e. AutoTest error ⇒ replace the board. (This error does not prevent the barrier from working but can degrade it) f. Invalid revision number ⇒ programme the board. g. Invalid product code ⇒ replace the board. h. Not initialised ⇒ restart the barrier.



The following screens show the results of the board diagnostics at the CAN, network, USB, array and potentially expansion board level. These screens are useful to our developers in the case of problems.

11.1.2. CAN0

CAN bus ✓	ID	Result
CAN0 ✓	Transmitted Bytes	9,628,656
ETH0 ✓	Received Bytes	10,741,061
Usb0 ✓	Communication Error Rate (%)	0
Battery ✓	Emission error counter (TEC)	0
	Reception error counter (REC)	0
	Bus error counter	0
	Arbitration lost counter	0
	Error active mode counter (TEC and REC < 127)	0
	Error passive mode counter (128 <= TEC or REC < 255)	0
	Bus off mode counter (TEC or REC >=255)	0
	Emission error counter	0
	Reception error counter	0

11.1.3. ETH0

CAN bus ✓	ID	Result
CAN0 ✓	Transmitted Bytes	6,544,500
ETH0 ✓	Received Bytes	6,349,398
Usb0 ✓	Emission error counter	0
Battery ✓	Reception error counter	0

11.1.4. USB0

CAN bus ✓	ID	Result
CAN0 ✓	Transmitted Bytes	0
ETH0 ✓	Received Bytes	0
Usb0 ✓	Emission error counter	0
Battery ✓	Reception error counter	0

11.1.5. BATTERY

CAN bus ✓	ID	Result
CAN0 ✓	Charging battery	No
ETH0 ✓	Board powered	Yes
Usb0 ✓	PMIC voltage status	KO (0x7f)
Battery ✓	Power circuit overheating	No

11.1.6. EXPANSION BOARD - PHOENIX 2



This tab only appears if your device has the Phoenix 2 expansion board.

11.2. INPUTS AND THERMAL SENSORS

Checks the status of an input by directly testing the wiring.

Inputs and thermal sensors				
Motor			Electrical state	Logical state
Input 1	Power Fail Detection	Normally Opened	0	0
I/O			Electrical state	Logical state
Input 1	Badge (direction A)	Normally Opened	0	0
Input 2	Close	Normally Opened	0	0
Input 3	Locked Open side A	Normally Opened	0	0
Input 4	Locked Closed	Normally Opened	0	0
Input 5	Close Loop/Cell	Normally Opened	0	0
Input 6	Open Loop B	Normally Opened	0	0
Input 7	Security Loop/Cell	Normally Opened	0	0
Input 8	Disabled	Normally Opened	0	0
HMI			Electrical state	Logical state
Input 1	Badge (direction A)	Normally Opened	0	0
Input 2	Stop	Normally Opened	0	0
Input 3	Close	Normally Opened	0	0
...				



11.3. OUTPUTS AND PICTOGRAMS

Allows you to activate the status of a selected output, relay or pictogram on the board to verify correct operation. Can be used as a diagnostic tool (wiring check).

Outputs and pictograms				
Motor			Electrical state	Logical state
Output 1	Disabled	Normally Opened	Off	
I/O			Electrical state	Logical state
Digital Outputs 1	Boom LEDs	Normally Opened	Off	
Digital Outputs 2	Green Lights	Normally Opened	Off	
Digital Outputs 3	Red Lights	Normally Opened	On	
Digital Outputs 4	Disabled	Normally Opened	Off	
Digital Outputs 5	Open Command	Normally Opened	Off	
Digital Outputs 6	Close Command	Normally Opened	Off	
Digital Outputs 7	Disabled	Normally Opened	Off	
Digital Outputs 8	Siren	Normally Opened	Off	
Digital Outputs 9	Gyrophare	Normally Opened	Off	
Digital Outputs 10	Green Boom Lights	Normally Opened	Off	
Digital Outputs 11	Red Boom Lights	Normally Opened	On	
Digital Outputs 12	Disabled	Normally Opened	Off	
Relay 1	Signal when open	Normally Opened	Off	
Relay 2	Signal when closed	Normally Opened	Off	
Relay 3	Signal when error	Normally Opened	Off	
Strip Led 1	Red Lights B	Normally Opened	On	
Strip Led 2	Green Lights B	Normally Opened	Off	
Strip Led 3	Disabled	Normally Opened	Off	
Strip Led 4	Red Lights A	Normally Opened	On	
Strip Led 5	Green Lights A	Normally Opened	Off	
Strip Led 6	Disabled	Normally Opened	Off	
HMI			Electrical state	Logical state
Output 1	Close Command	Normally Closed	Off	
Output 2	Open Command	Normally Closed	Off	
Output 3	Stop Command	Normally Closed	On	

11.4. MOVEMENT

11.4.1. INTENSIVE MOTOR TESTING

This screen allows you to perform tests on the motor’s opening and closing movements.

Intensive motor testing

Movement

Motion Graph

2

☐ No random direction change

3

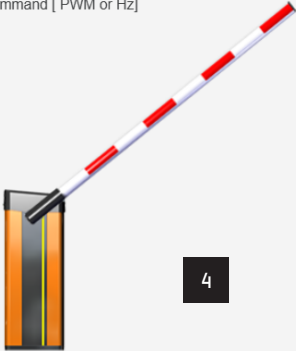
Delay between moves (ms)

1000

1

Start

ID	boom
Position [°]	79
Current [mA]	60
Command [PWM or Hz]	0



4

ITEM	CONFIGURATION	DESCRIPTION
1	Start	Intensive motor test launch button
	Stop	The barrier arm performs opening and closing cycles until the "Stop" button is clicked.
2	No random direction change	By default, the test includes random changes in arm direction. Tick the box to disable these movements.
3	Delay between moves (ms)	Set time between the arm opening and closing.
4	Real-time display of the arm’s opening and closing cycles, with animation synchronised to its movement.	

11.4.2. MOVEMENT

This screen allows you to test different engine parameters.

Before operating the barrier, the device must be calibrated (⇒ **Initialisation**)

Intensive motor testing

Movement

Motion Graph

1

Open

3

Initialisation

4

Close

2

Open slowly

5

Close Slowly

6

Close after 5s

ID

boom

Position [°]

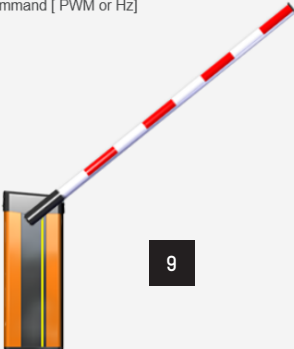
79

Current [mA]

60

Command [PWM or Hz]

0



9

Motorisation curves

7

Download motor curves

8

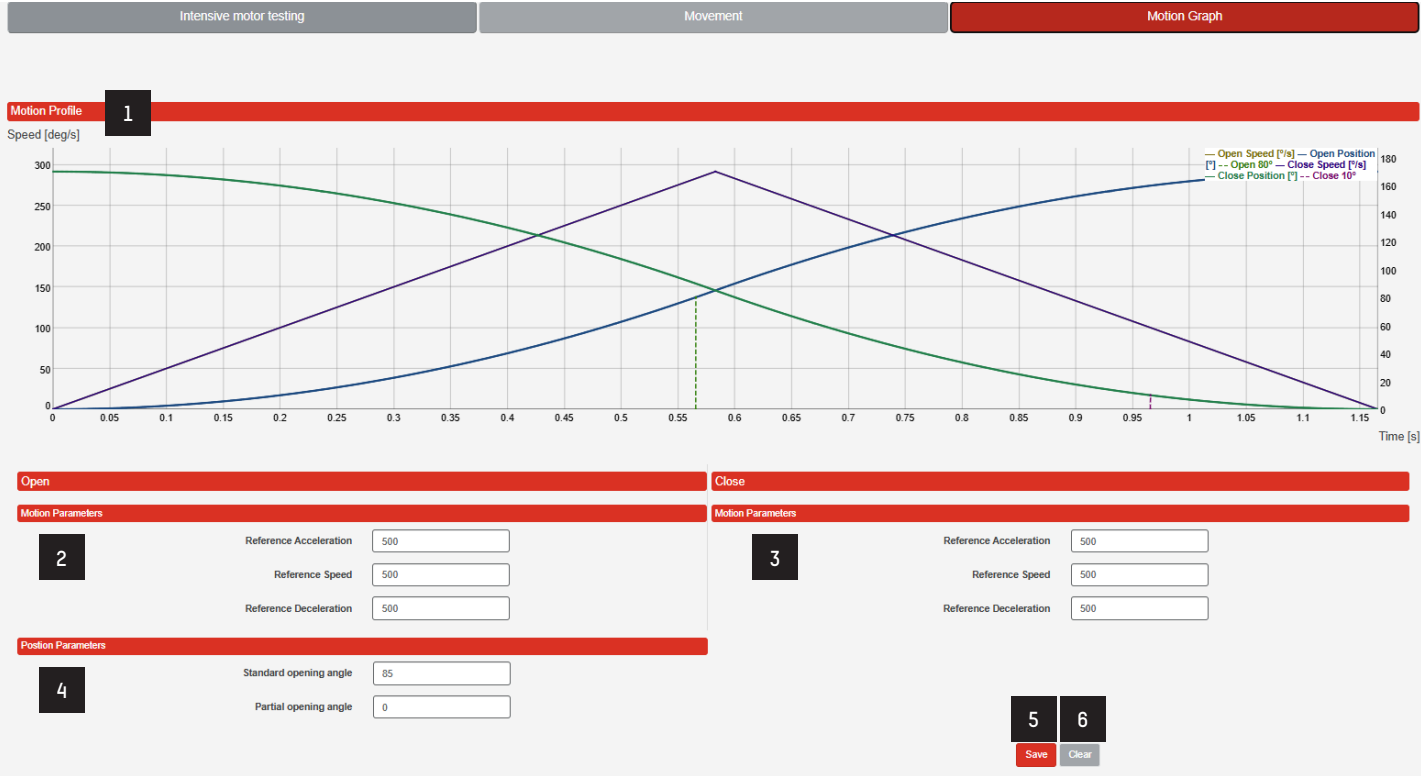
Delete motor curves

ITEM	CONFIGURATION	DESCRIPTION
1	Open	Performs a full opening movement within the time defined by the "Opening Time" parameter on the Configuration > Timer configuration page. This button is inactive until the initialisation or calculation of speed ramps has been performed.
2	Open slowly	Performs a full opening movement at low speed.
3	Initialisation	Motor initialisation to record the limit positions, generating the following movements: • Opening of the arm in direction A • Opening of the arm in direction B • Closing of the arm If the initialisation does not complete, check motor and encoder wiring.
4	Close	Performs a complete closing movement within the time defined by the "Closing Time" parameter on the Configuration > Timer configuration s page. This button is inactive until the initialisation or calculation of speed ramps has been performed.
5	Close Slowly	Performs a complete closing movement at low speed.
6	Close after 5 seconds	Arm closes after 5 seconds.
7	Download motor curves	Allows you to retrieve a "TestMotor.tar" file with information about the last movement performed. This file can be requested by the AS technical department in the case of problems.

ITEM	CONFIGURATION	DESCRIPTION
8	Delete motor curves	Allows you to delete the latest data from the motor curves.
9	Real-time display of the arm’s opening and closing cycles, with animation synchronised to its movement.	

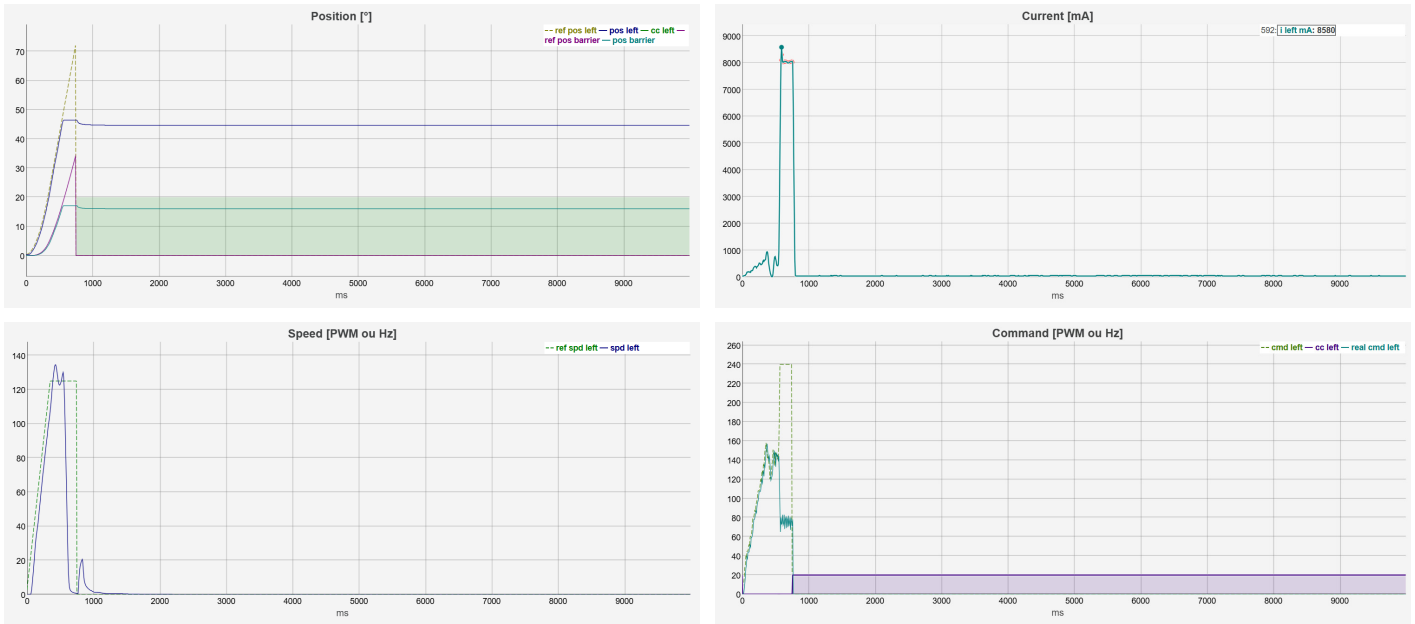
11.4.3. MOTION GRAPH

This screen determines the optimal speed curves for the installed arm and for different opening and closing times.



ITEM	CONFIGURATION	DESCRIPTION	
1	Motion profile	Real-time speed curves	
2	Open: Motion Parameters	Reference Acceleration	which defines the acceleration
		Reference Speed	which defines the maximum speed
		Reference Deceleration	which defines the braking
3	Close: Motion Parameters	Reference Acceleration	which defines the acceleration
		Reference Speed	which defines the maximum speed
		Reference Deceleration	which defines the braking
4	Position Parameters	The "Angle" parameter provides the angular position of the arm relative to the horizontal. Standard opening angle: 90° Partial opening angle: - 90°	
5	Save	Allows you to save the parameters entered on this page.	
6	Clear	Allows you to delete the parameters entered on this page.	

Each test performed in the « Intensive motor testing », « Movement » or « Motion Graph » tab generates four graphs below the data:



The following buttons allow you to switch from one test result to another:

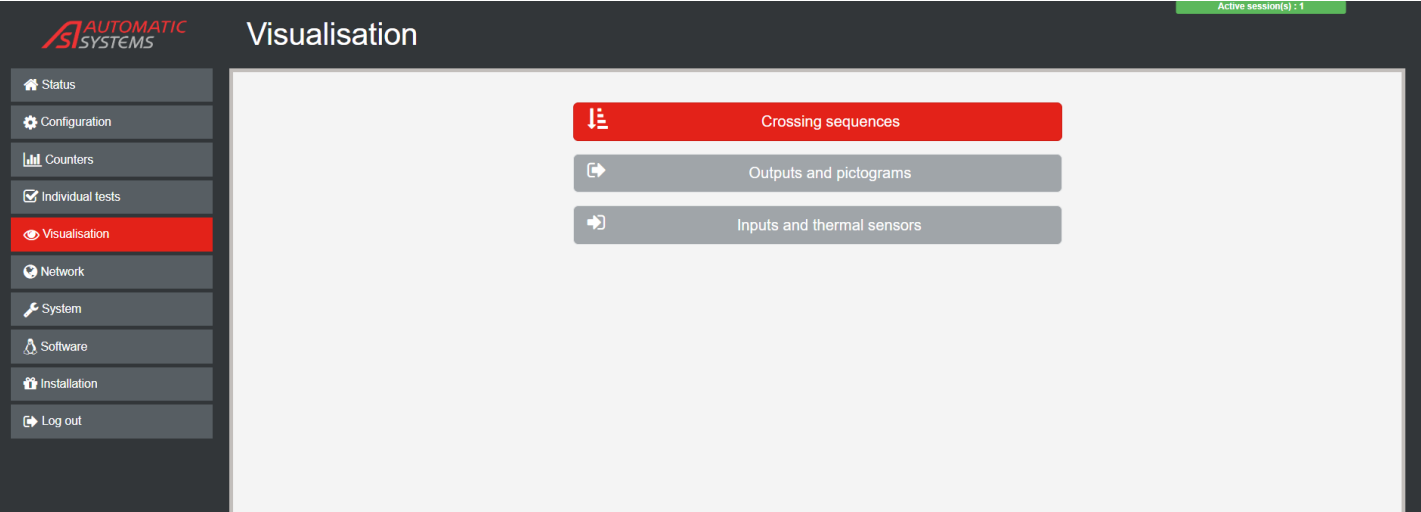


Once your tests are complete and you navigate through other pages, you will be asked to return to Automatic mode by clicking on this button:

» Automatic mode ☒

12. PAGE – VISUALISATION

The visualisation pages allow you to query the barrier while keeping it in its normal operating state (unlike Individual tests that require you to switch the corridor to Maintenance Mode).



12.1. CROSSING SEQUENCES

1

2

3

4

Refresh0001 (04/9/2025 18:22:47)OK

Crossing sequences visualisation : 0001 (04/9/2025 18:22:47 UTC)

5 Timestamp MM:SS.mmm	6 Entry zone (A)				7 Entry door		6 Exit zone (B)				Gate status		
	OP	A	Presence	FP	Status	Command	FP	Presence	B	OP	Status	Infraction	Acquisition
00:00.000			Controlled			Normally Closed		Controlled					
00:00.000											Ready		
00:00.069			Controlled			Normally Closed		Controlled			Stop movement		
00:00.069											Stop movement	Holding fraud	
00:01.104											Stop movement		
00:01.748											Stop movement		
00:01.909											Stop movement		
00:05.014			Controlled			Normally Closed		Controlled			Hardware failure		
00:05.014											Hardware failure		
00:05.313											Hardware failure		
00:05.658											Hardware failure		
00:06.003											Hardware failure		
00:06.302											Hardware failure		
00:06.647											Hardware failure		
00:27.807			Controlled			Normally Closed		Controlled			Initialisation		
00:27.807													
00:46.345			Controlled			Normally Closed		Controlled			Stop movement		
00:46.345						Maintenance							
51:08.971			Controlled			Normally Closed		Controlled					
51:08.971						Close					Close		
51:09.017						Close					Ready		

910

11

1213

14

12

11

10915

16

17

18

1	"Refresh"	The button refreshes the page to display the last passage sequence.
2		List of passage sequence options to display.
3	"OK"	Validation of the choice of passage sequence to be displayed.
4		To print.
5	Timestamp	Indicates when the event took place.
6		Allows you to give a standard opening authorisation (only when the device is in controlled mode).
7		Allows PMR opening authorisation (only when the device is in controlled mode).
8		Functionality available on all swivel devices. Allows partial opening authorisation (only when the device is in controlled mode)
9	OP (Orientation Pictogram)	Viewing the status of orientation pictograms (see the Visualisation / Outputs and pictograms page for colour codes).
10		Indicates whether access authorisation has been granted in direction A/B.
11	Presence	Indicates presence in the passage.
12	FP (Function Pictogram)	Viewing the status of function pictograms (see the Visualisation / Outputs and pictograms page for colour codes).
13	Status	Symbolic representation of the status of the obstacles (open or closed).
14	Command	Indicates the command sent to the motors.
15		Status of the buzzer (icon present when active).
16	Status	Information on the passage status (direction A/B, rest).
17	Infraction	Indicates the type of infraction.
18	Acquisition	Indicates the reference of the displayed passage sequence.

12.2. OUTPUTS AND PICTOGRAMS

Visual indication of the status of outputs and pictograms.

Outputs and pictograms				
Motor			Electrical state	Logical state
Output 1	Disabled	Normally Opened	0	0
I/O			Electrical state	Logical state
Digital Outputs 1	Boom LEDs	Normally Opened	0	0
Digital Outputs 2	Green Lights	Normally Opened	0	0
Digital Outputs 3	Red Lights	Normally Opened	1	1
Digital Outputs 4	Disabled	Normally Opened	0	0
Digital Outputs 5	Open Command	Normally Opened	0	0
Digital Outputs 6	Close Command	Normally Opened	0	0
Digital Outputs 7	Disabled	Normally Opened	0	0
Digital Outputs 8	Siren	Normally Opened	0	0
Digital Outputs 9	Gyrophare	Normally Opened	0	0
Digital Outputs 10	Green Boom Lights	Normally Opened	0	0
Digital Outputs 11	Red Boom Lights	Normally Opened	1	1
Digital Outputs 12	Disabled	Normally Opened	0	0
Relay 1	Signal when open	Normally Opened	0	0
Relay 2	Signal when closed	Normally Opened	0	0
Relay 3	Signal when error	Normally Opened	0	0
Strip Led 1	Red Lights B	Normally Opened	1	1
Strip Led 2	Green Lights B	Normally Opened	0	0
Strip Led 3	Disabled	Normally Opened	0	0
Strip Led 4	Red Lights A	Normally Opened	1	1
Strip Led 5	Green Lights A	Normally Opened	0	0
Strip Led 6	Disabled	Normally Opened	0	0
HMI			Electrical state	Logical state
Output 1	Close Command	Normally Closed	0	0
Output 2	Open Command	Normally Closed	0	0
Output 3	Stop Command	Normally Closed	1	1

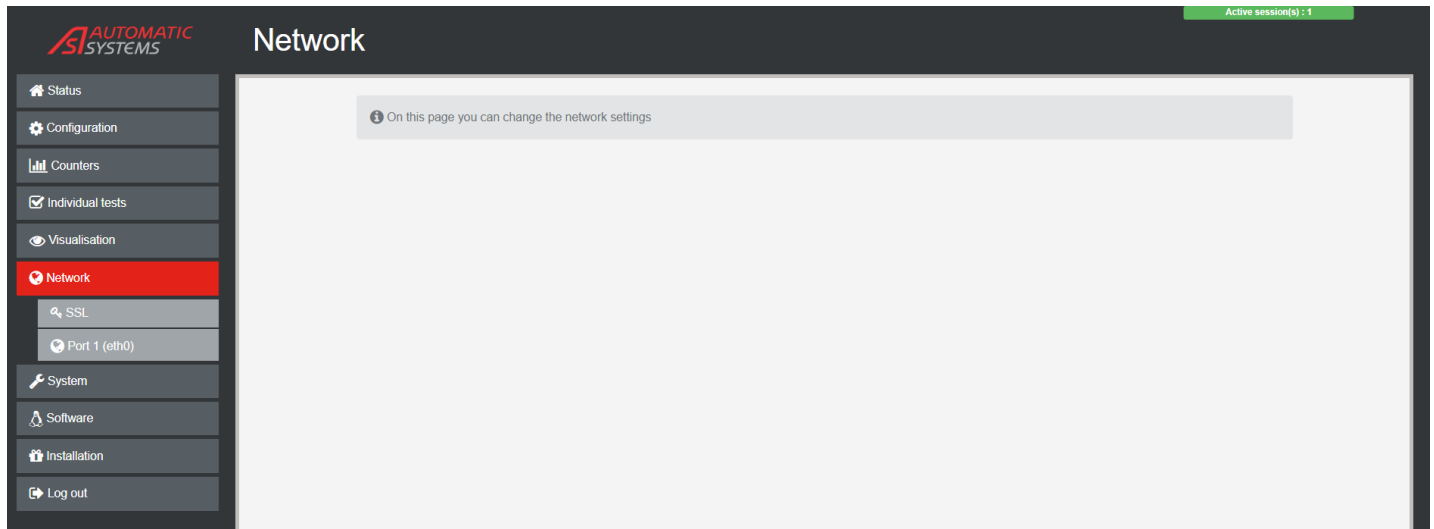
12.3. INPUTS AND THERMALS SENSORS

Visual indication of input status.

Inputs and thermal sensors				
Motor			Electrical state	Logical state
Input 1	Power Fail Detection	Normally Opened	0	0
I/O			Electrical state	Logical state
Input 1	Badge (direction A)	Normally Opened	0	0
Input 2	Close	Normally Opened	0	0
Input 3	Locked Open side A	Normally Opened	0	0
Input 4	Locked Closed	Normally Opened	0	0
Input 5	Close Loop/Cell	Normally Opened	0	0
Input 6	Open Loop B	Normally Opened	0	0
Input 7	Security Loop/Cell	Normally Opened	0	0
Input 8	Disabled	Normally Opened	0	0
HMI			Electrical state	Logical state
Input 1	Badge (direction A)	Normally Opened	0	0
Input 2	Stop	Normally Opened	0	0
Input 3	Close	Normally Opened	0	0

13. PAGE – NETWORK

This page allows you to adapt the device configuration to the network it is connected to and must be configured by the network administrator.



13.1. SSL

The Secure Sockets Layer (SSL) protocol is a cryptographic protocol to ensure the security of Internet communications.

Installed certificate informations 1

Issuer: C = BE, ST = Belgium, L = Wavre, O = Automatic Systems, OU = Software Department, CN = as1190-b22840f419909b43042ae673deba3ad5ed.automatic-systems.com
 Validity
 Not Before: Jan 23 06:53:39 2026 GMT
 Not After : Jan 24 06:53:39 2027 GMT
 X509v3 extensions:
 X509v3 Basic Constraints:
 CA:FALSE
 X509v3 Subject Alternative Name:
 IP Address: 192.168.0.200, IP Address: FE80::0:0:5AA1:5FFF:FE38:9D30, IP Address: 10.0.0.1
 X509v3 Extended Key Usage: critical
 TLS Web Server Authentication

Current IP addresses 2

Update certificate 3

The HTTPS certificate can be updated/regenerated in two ways :

- Self-signed certificate (default)
- Certificate Authority based certificate

Remark : Certificate maximum validity is 1 year.

Option 1: Regenerate self-signed certificate 4

[Generate self-signed certificate](#)

Warning : After the creation of the new certificate, connecting to https will warn about the self-signed certificate. An exception has to be added for each device in order to remove the warning/error.

Option 2: Regenerate certificate with a Certificate Authority 5

Step 1: Generate signing request

[Download signing request](#)

Step 2: Generate certificate

Generate the certificate by signing the request on the CA.

Step 3: Upload certificate

[File...](#)

[Upload certificate](#)

1	Installed certificate informations	Information about the certificate currently used on the machine.
2	Current IP addresses	Status of IP addresses.
3	Update certificate	The HTTPS certificate can be updated/regenerated in two ways: - Self-signed certificate (default) - Certificate based on the certification authority Note: The maximum certificate validity is one year.
4	Option 1: Regenerate the self-signed certificate	Generation of the machine's self-managed certificate. This certificate is flagged by Firefox and not accepted by other browsers. ⇒ unsecured site (http)
5	Option 2: Regenerate certificate with a certification authority	Generation of the machine-generated company certificate. ⇒ secure site (https)



This function is only accessible in technician mode.

13.2. PORT 1 (ETH0)

Network settings

Link status

MAC address

58:A1:5F:38:9D:30

enable

☒

Plugged

Enabled

IPV4

enable DHCP

☐

IP address

192.168.0.200

Netmask

255.255.255.0

Auto broadcast

☐

Broadcast

192.168.0.255

Gateway

192.168.0.1

IPV6

enable IPV6

☒

enable DHCP

☐

enable SLAAC

☒

IP address

fe80::5aa1:5fff:fe38:9d30

Netmask

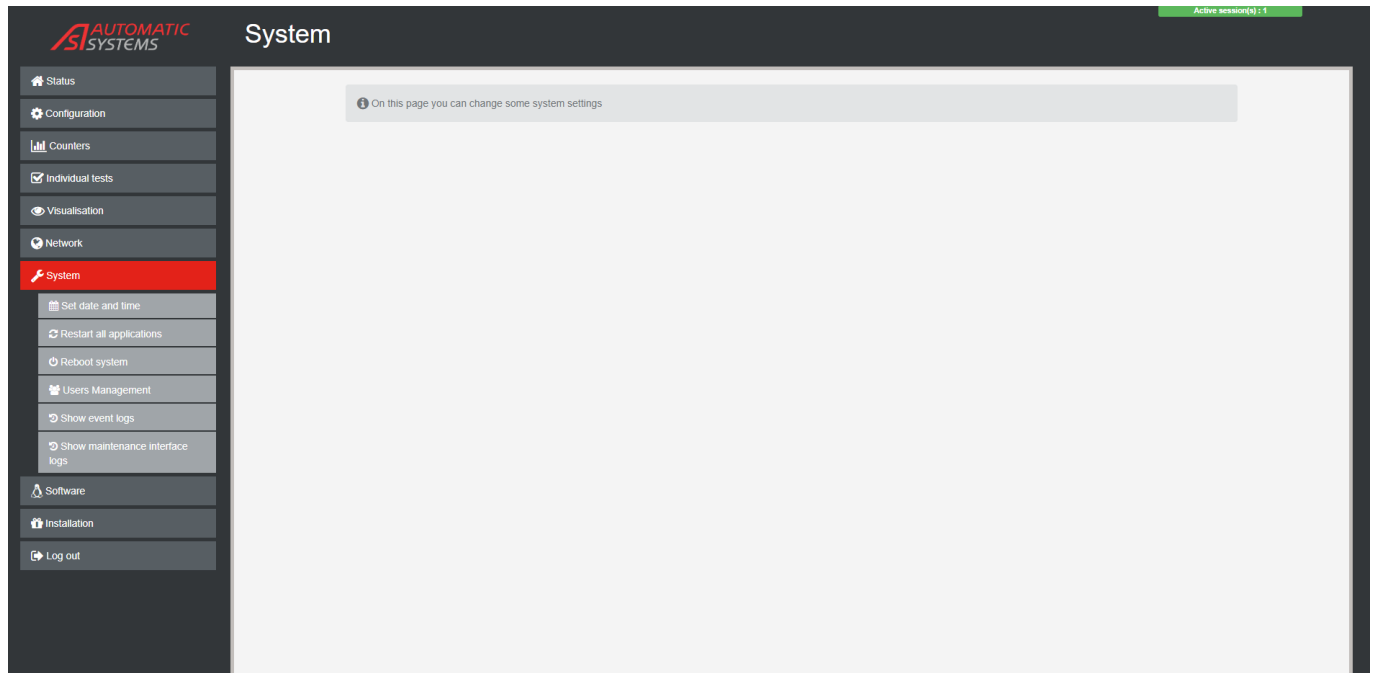
☒ Automatic redirection to the new IP address

Save

"Save"	Validation of encoded parameters.
--------	-----------------------------------

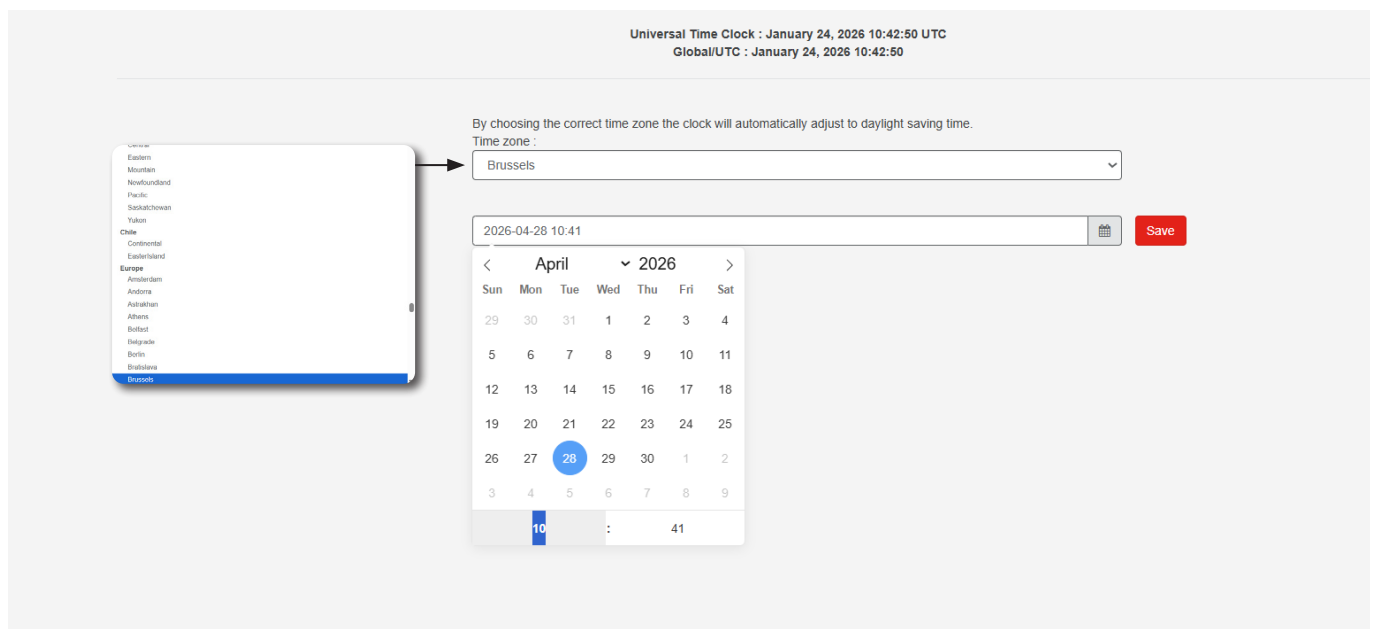
14. PAGE – SYSTEM

This page allows you to change certain system parameters.



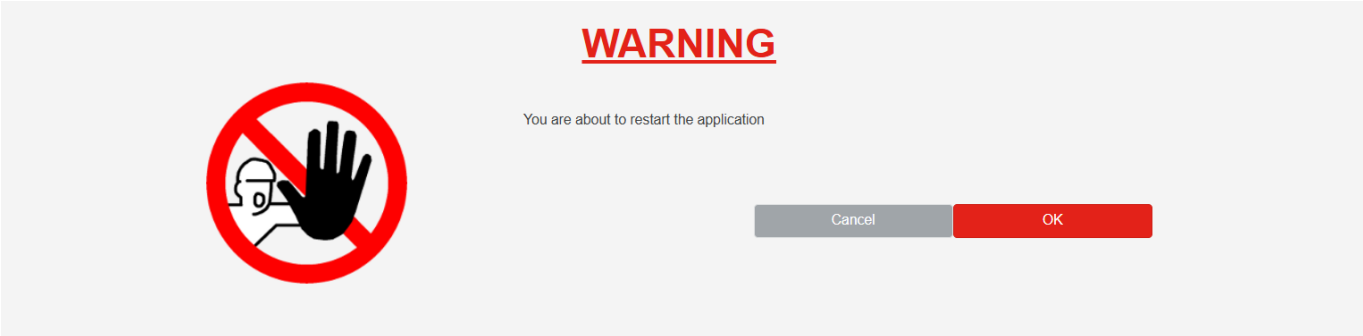
14.1. SET THE DATE AND TIME

The CPU board's date and time can be set manually.



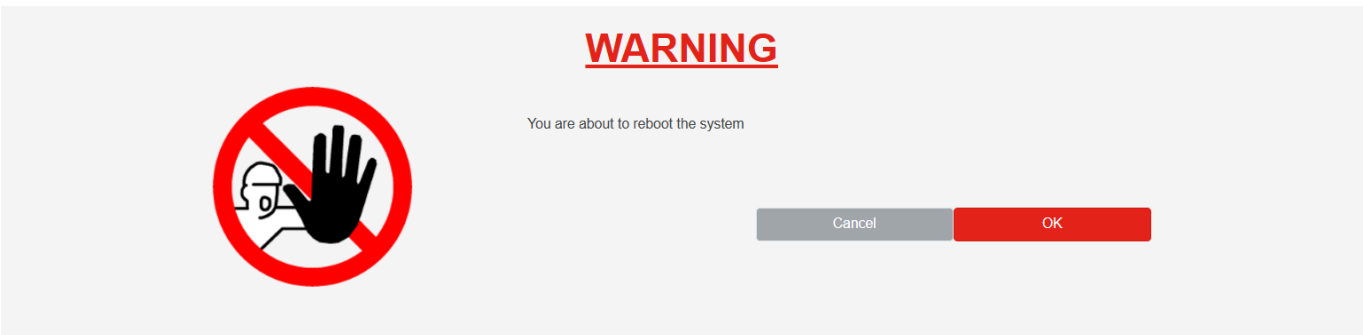
14.2. RESTART ALL APPLICATIONS

Restarts applications, without stopping the device.



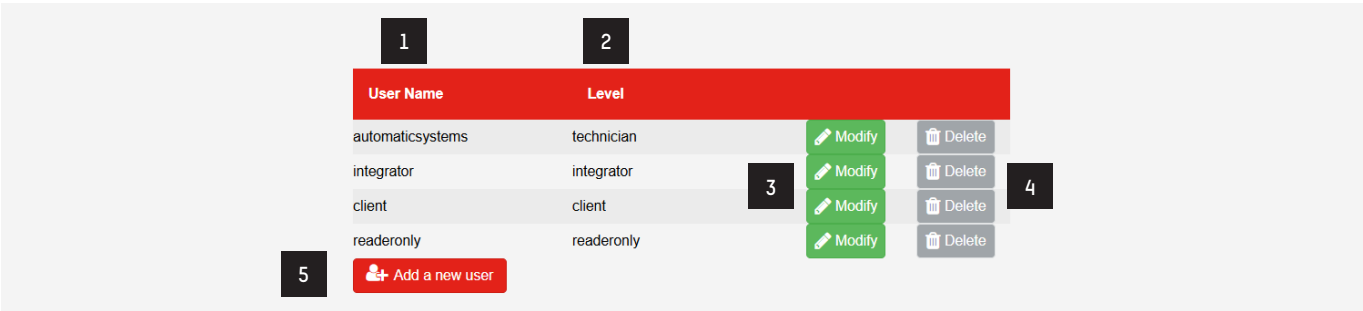
14.3. REBOOT SYSTEM

Restarts the system with a complete device stop.



14.4. USERS MANAGEMENT

Add/Edit/Delete users and their level of access to the pages of this maintenance interface.



1	Username	List of existing users.
2	Level	User level.
3		Allows you to change the access permissions of an existing user. Modify User Name : automaticsystems Level : technician Password : CancelModifyClear

4	 Delete	Allows you to delete the account of an existing user.
5	 Add a new user	Switches to the new user creation screen (below).

Add a new user

1

User Name :

2

Level :

guest

▼

3

Password :

Cancel

Add a new user

Clear

4

5

6

1	Username	Field to be completed with the name of the user (in lowercase)
2	Level	User level selection table guest client integrator technician The access level of the connected user determines the access level of the user to be created: Client level user = Client or Read Only user creation. Integrator level user = Integrator, Client or Read Only user creation. Technician level user = Technician, Integrator, Client or Read Only user creation.
3	Password	Password entry field
4	Cancel	Cancels the creation of a new user and returns to the user management screen.
5	Add a new User	Validates the creation of the new user
6	Clear	Clears the various fields

The system authorises four access profiles

- **Technician** level: allows access to all interface features.
- **Integrator** level: allows access to all interface features except Lego, SSL management.
- **Client** or **Guest** level: limited access.

	GUEST	CLIENT	INTEGRATOR	TECHNICIAN
Status	✓	✓	✓	✓
Configuration	✓	✓ ¹	✓ ¹	✓
Lego	✗	✓	✓	✓
Export/Import config	✗	✓	✓	✓
FTP	✗	✗	✓	✓
Save as default configuration	✗	✓	✓	✓
Restore default configuration	✗	✓	✓	✓
Counters	✓	✓	✓	✓
Individual tests	✗	✗	✓ ¹	✓
Visualisation	✓ ¹	✓ ¹	✓ ¹	✓
Network				
SSL	✗	✗	✓	✓
Port 1 (eth0)	✓	✓	✓	✓
System				
Set date and time	✗	✓	✓	✓
Restart all applications	✗	✓	✓	✓
Reboot system	✗	✓	✓	✓
Users Management	✗	✓	✓	✓
Show event logs	✓	✓	✓	✓
Show maintenance interface logs	✓	✓	✓	✓
Software				
Update software	✗	✗	✓	✓
Update firmware	✓	✓	✓	✓
Create archive	✓	✓	✓	✓
Download configuration file	✓	✓	✓	✓
Installation	✗	✗	✓	✓
Log out	✓	✓	✓	✓

¹ You can access the page but your navigation is limited by your user level.

14.5. SHOW EVENT LOGS

This page contains application events: application start/stop, operating mode changes, battery management, technical faults, fraud, etc.

One filter per event type has been added as well as the ability to display files from previous versions.

1

Previous: /log/Events.log

File displayed : /log/Events.log.1.gz

Next: /log/Events.log.2.gz

1

Battery

Audio player

Battery

Start application

Technical error (Major)

Change mode

CAN

Stop application

Technical error (Minor)

2

All

None

3

5

↓ Scroll-Down ↓

Local date	Event	More
January 23, 2026 06:55:09	Battery	Starting Battery manager
January 23, 2026 06:55:10	Battery	No battery is plugged in
January 23, 2026 07:05:19	Battery	Starting Battery manager
January 23, 2026 07:05:20	Battery	No battery is plugged in
January 23, 2026 07:09:06	Battery	Starting Battery manager
January 23, 2026 07:09:07	Battery	No battery is plugged in
January 23, 2026 07:25:54	Audio player	Could not find audio device
January 23, 2026 07:27:04	Battery	Starting Battery manager
January 23, 2026 07:27:05	Battery	No battery is plugged in
January 23, 2026 07:29:54	Start application	PHX - PHX - T04E00V08R01
January 23, 2026 07:29:58	Technical error (Major)	Hall effect sensor failure ⓘ
January 23, 2026 07:29:58	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:29:58	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:29:58	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:29:59	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:29:59	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:29:59	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:30:00	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:30:00	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:30:00	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:30:01	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:30:01	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:30:01	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:30:01	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:30:02	Technical error (Major)	Motor not initialized ⓘ
January 23, 2026 07:30:02	Technical error (Major)	Motor not initialized Hall effect sensor failure ⓘ
January 23, 2026 07:30:03	Technical error (Major)	Motor not initialized ⓘ

4

5

↑ Scroll-Up ↑

1	Previous / Next	Allows you to choose log reports.
2	Event type	Depending on the events chosen, the log will be displayed below.
3	All / None	Shortcuts to select ALL events or NO events.
4		Event log based on selected type. Clicking the ⓘ icon opens a screen with help related to all reported errors.
5	Scroll-Down / Scroll-Up	Shortcuts to access the end or beginning of the event log.

14.6. SHOW MAINTENANCE INTERFACE LOGS

This page contains maintenance-related events: login/logout, IP address identification, login attempts, certificate issues. The events can be filtered by event type.

File displayed :
/tmp/log/UserLog_php.log

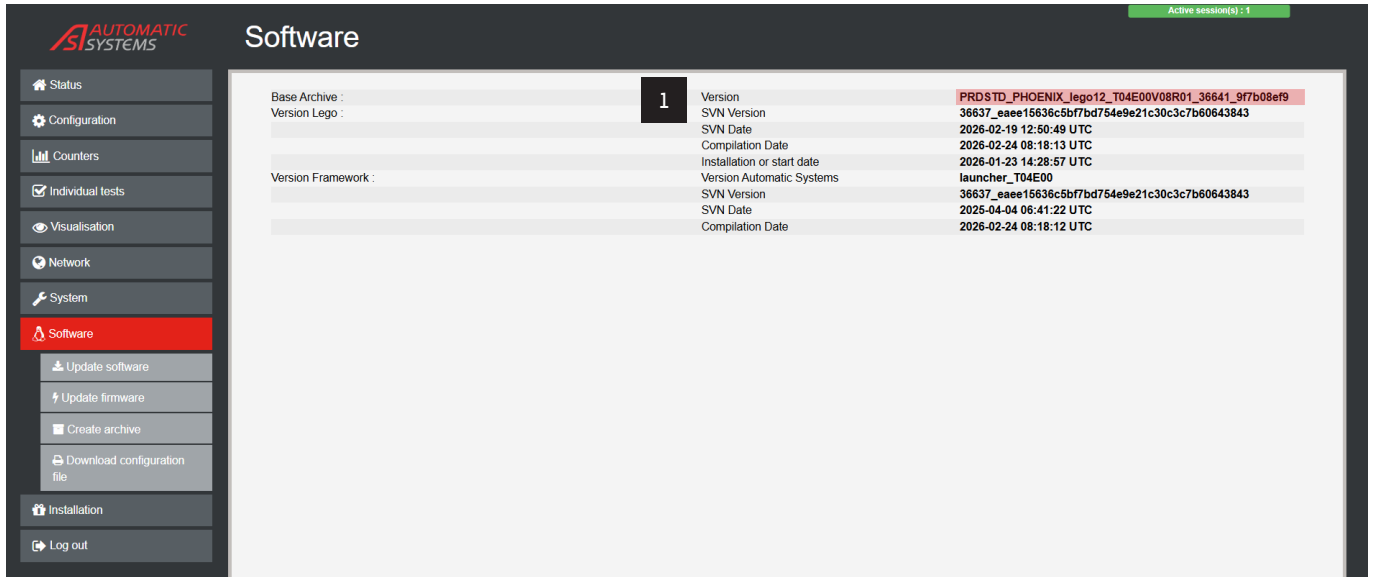
Loggin/out
A user connected
Initialisation
Motor initialisation
HTTP(S)
Movement request

All
None
↓ Scroll-Down ↓

Local date	Event	More	User
January 23, 2026 07:29:00	Loggin/out	Loggin tentative 1 from 192.168.0.41 as automaticsystems	unknown user (unknown level)
January 23, 2026 07:29:03	Loggin/out	Loggin tentative from 192.168.0.41 - Access granted	unknown user (unknown level)
January 23, 2026 07:29:03	A user connected		automaticsystems (technician)
January 23, 2026 07:29:06	Initialisation	Start of initialisation	automaticsystems (technician)
January 23, 2026 07:29:34	Initialisation	End of initialisation : PHX_Default_flow	automaticsystems (technician)
January 23, 2026 07:31:07	Motor initialisation	Motor Initialisation request	automaticsystems (technician)
January 23, 2026 07:31:21	Motor initialisation	Motor Initialisation request	automaticsystems (technician)
January 23, 2026 07:31:59	Motor initialisation	Motor Initialisation request	automaticsystems (technician)
January 23, 2026 07:41:01	Loggin/out	A user disconnected	automaticsystems (technician)
January 23, 2026 07:41:25	Loggin/out	Loggin tentative 1 from 192.168.0.41 as client	unknown user (unknown level)
January 23, 2026 07:41:27	Loggin/out	Loggin tentative from 192.168.0.41 - Access granted	unknown user (unknown level)
January 23, 2026 07:41:27	A user connected		client (client)
January 23, 2026 07:41:48	Loggin/out	A user disconnected	client (client)
January 23, 2026 07:42:09	Loggin/out	Loggin tentative 1 from 192.168.0.41 as integrator	unknown user (unknown level)
January 23, 2026 07:42:11	Loggin/out	Loggin tentative from 192.168.0.41 - Access granted	unknown user (unknown level)
January 23, 2026 07:42:11	A user connected		integrator (integrator)
January 23, 2026 07:53:59	Loggin/out	A user disconnected	integrator (integrator)
January 23, 2026 09:41:20	HTTP(S)	Certificate is good upto Jan 24 06:53:39 2027 GMT.	
January 23, 2026 09:41:21	HTTP(S)	Certificate is good upto Jan 24 06:53:39 2027 GMT.	
January 23, 2026 10:05:02	HTTP(S)	Certificate is good upto Jan 24 06:53:39 2027 GMT.	
January 23, 2026 10:05:03	HTTP(S)	Certificate is good upto Jan 24 06:53:39 2027 GMT.	
January 23, 2026 10:07:21	Loggin/out	Loggin tentative 1 from 192.168.0.41 as automaticsystems	unknown user (unknown level)
January 23, 2026 10:07:23	Loggin/out	Loggin tentative from 192.168.0.41 - Access granted	unknown user (unknown level)
January 23, 2026 10:07:23	A user connected		automaticsystems (technician)
January 23, 2026 10:08:33	Motor initialisation	Motor Initialisation request	automaticsystems (technician)
January 23, 2026 10:09:40	Movement request	Closing request	automaticsystems (technician)
January 23, 2026 10:09:41	Movement request	Closing request	automaticsystems (technician)
January 23, 2026 10:11:11	Movement request	Closing request	automaticsystems (technician)
January 23, 2026 10:11:13	Motor initialisation	Motor Initialisation request	automaticsystems (technician)
January 23, 2026 14:34:47	HTTP(S)	Certificate is good upto Jan 24 06:53:39 2027 GMT.	
January 23, 2026 14:34:47	HTTP(S)	Certificate is good upto Jan 24 06:53:39 2027 GMT.	
January 23, 2026 14:41:04	Loggin/out	Loggin tentative 1 from 192.168.0.41 as automaticsystems	unknown user (un

↑ Scroll-Up ↑

15. PAGE – SOFTWARE



Base Archive :	Version	Version Lego :
PRDSTD_PHOENIX_lego12_T04E00V08R01_36641_9f7b08ef9	36637_eaee15636c5b7bd754e9e21c30c3c7b60643843	
	SVN Version	2026-02-19 12:50:49 UTC
	SVN Date	2026-02-24 08:18:13 UTC
	Compilation Date	2026-01-23 14:28:57 UTC
	Installation or start date	launcher_T04E00
Version Framework :	Version Automatic Systems	36637_eaee15636c5b7bd754e9e21c30c3c7b60643843
	SVN Version	2025-04-04 06:41:22 UTC
	SVN Date	2026-02-24 08:18:12 UTC
	Compilation Date	

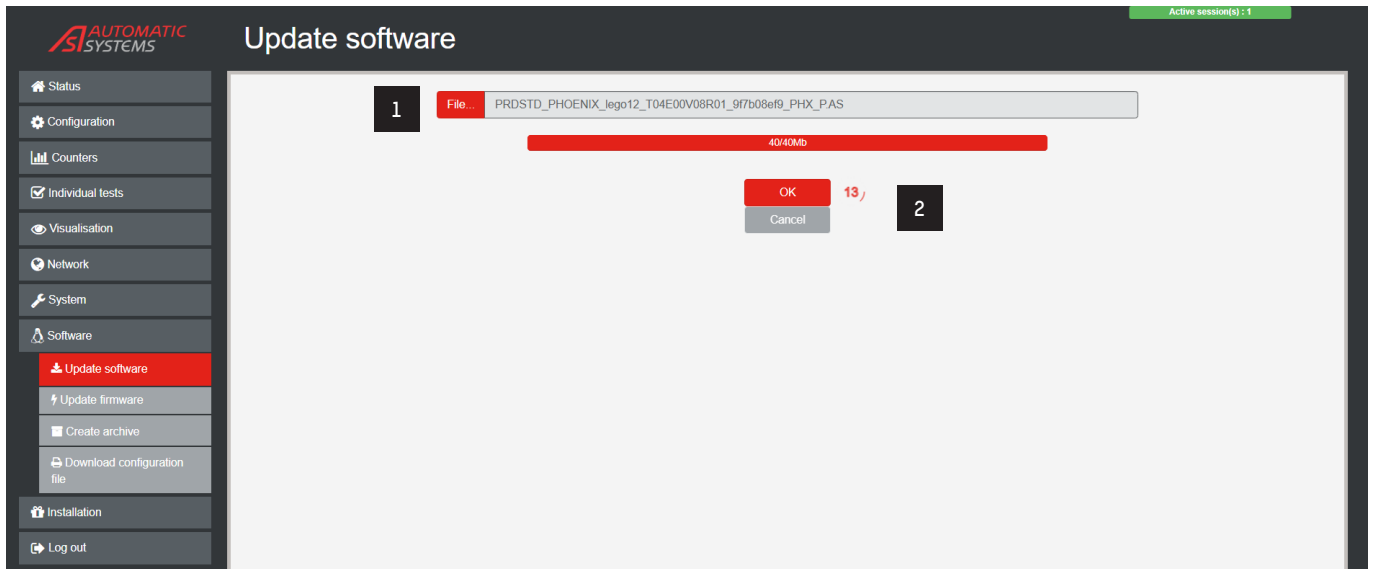
1

References of the various embedded software.

The version (VxxRyy) shown in the manual title refers to the **Automatic Systems** version of the Lego.

15.1. UPDATE SOFTWARE

Installation of an application update file from the PC to the CPU.



1. Select the **.AS** file
Example here: PRDSTD_PHOENIX_lego12_T04E00V08R01_9f7b08ef9_PHX_P.AS
2. Validate by pressing the **OK** button within the allotted time.

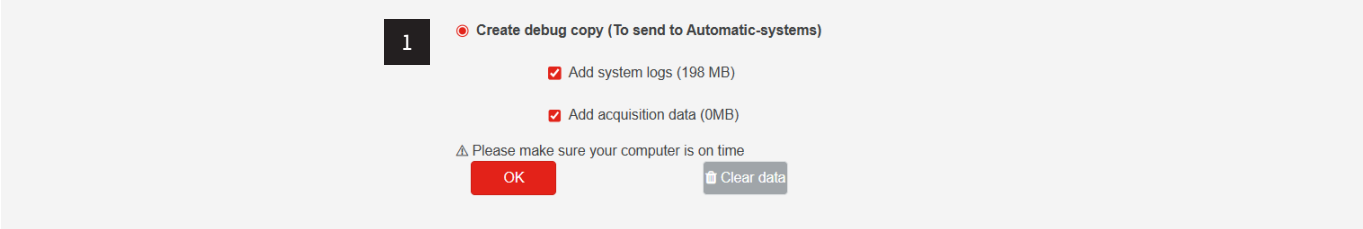
1	File	Installation of an .AS file from the PC.
2	OK	Validation of the selected file. Note: You have 15 seconds to cancel the launch.



3. Please reconfigure your device by going to the "Installation" page (⇒ Chap. 16, page 63)

15.2. CREATE ARCHIVE

Opens the **Create a Debug Archive** options window.



1	Create debug copy	Creates an archive-image file of the system status (except for parameter settings). The purpose of this archive is to be sent to Automatic Systems for debugging purposes when a device is not working properly.
---	-------------------	--

15.3. DOWNLOAD CONFIGURATION FILE

Allows you to create a backup file (Config.txt) for the device settings.

```
--- Launcher Version ---
Automatic Systems version => launcher_T04E00
Version Date Automatic Systems => 36259_10e20a431c54a3fc7fbbfde138f0368eeb4546c
SVN Version => 2025-04-04 06:41:22
SVN Date => 2026-02-24 08:18:12 UTC
--- Configuration Files and Scripts Version ---
SVN Version => 36638 (e7e375daa93427e79367fc3f3bec3f3b0d0ad619)
-----
```

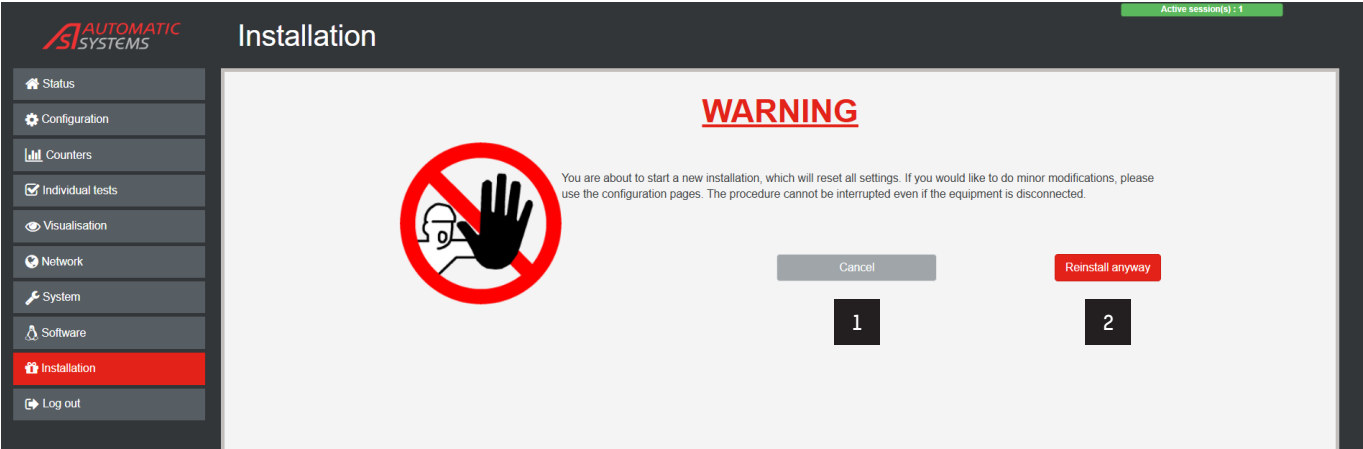
```
--- LegoGeneral ---
```

```
{
  "generic": {
    "initialSetup": "FLOW",
    "gateFamily": "PHX",
    "gateType": "PHX",
    "deviceName": "myGate",
    "groupName": "myGroup",
    "positionInGroup": 1,
    "boomType": "standard"
  },
  "mode": {
    "opMode": "Nc"
  },
  "option": {
    "authMemo": false,
    "serviceDoor1": false,
    "serviceDoor2": false,
    "serviceDoor3": false,
    "serviceDoor4": false,
    "serviceDoor5": false,
    "keepModeThroughReboot": false,
    "DeadManMode_Opening": false,
    "DeadManMode_Closing": true,
    "hingeBehaviour": "HINGE_ACTION_OPEN_SLOWY",
    "SecuAction": "SECU_ACTION_REOPEN",
```

Downloads

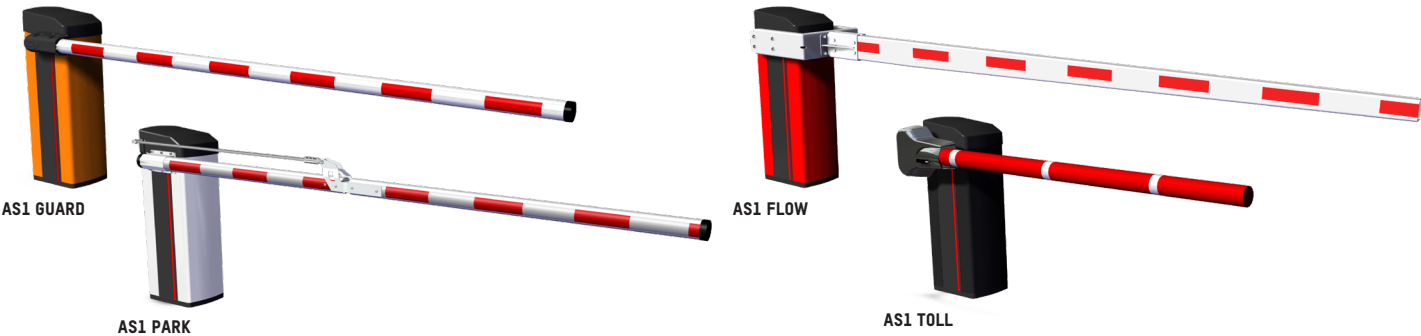
 Config (10).txt
[Open a file](#)

16. PAGE – INSTALLATION



1	Cancel	Cancels the "Installation" page view and refers you to the "Status" page view.
2	Reinstall anyway	Resets the device settings from the initial setup.

Check your device model:



[Next page >>>](#)

Barrier Type:



1 ☐ Extension board

Critical parameters
Unlock the modification of critical parameters ■

Barrier Type: flow

Boom type: Stand

Length of the barrier (cm): 669 ⚠
Section with sensitive parameters

Standard used for the speed parameters: EN A ⚠

STO only when closing: No

2

1	Extension board	Tick this box if the barrier has an extension board.						
2	Critical parameters	These factory settings are locked because they are called "sensitive". To access these settings, please tick "Unblock Changes to Critical Settings". After restarting, this will generate a critical configuration error on the Status page. You must click on the "Solve the Error" button and check the settings. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f44336; color: white;"> <th>Error Name</th><th>Major</th><th>Minor</th></tr> </thead> <tbody> <tr> <td>Critical config error</td><td style="text-align: center; color: red;">✖</td><td></td></tr> </tbody> </table> ⚠ Critical config error Solve the error	Error Name	Major	Minor	Critical config error	✖	
Error Name	Major	Minor						
Critical config error	✖							

17. PAGE – LOG OUT

Exit the maintenance interface and return to the « Identification » page.



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