

NAYAR **Conexiones GSR**

1 — Last update: Feb 17, 2023

Nayar Systems

Table of Contents

1. Introduction	3
2. Physical Connections	5
2.1. Controller	6
2.1.1. Edel Advanced K2	7
2.1.2. Hitachi MCUB	10
2.1.3. KONE Monospace	18
2.1.4. Monarch Nice 3000+	24
2.1.5. MP	32
2.1.6. Mitsubishi Nexway	40
2.1.7. Orona Arca 2	48
2.1.8. OTIS	56
2.1.9. Rekoba EKM 66 / EKM 68	59
2.1.10. Schindler 3300	62
2.1.11. Step AS380	66
2.1.12. SJEC	69
2.1.13. Sodimas qi touch	74
2.1.14. Thyssen CMC3	77
2.2. Variable Speed Drives	80
2.2.1. Fuji Frenic LM2A	81
2.3. Webserver	85
2.3.1. Remote Programming Siemens PLC Logo!	93
2.4. Binary Acquisition card	100
2.4.1. Features	101
2.4.2. Connection	105
2.4.3. Platform configuration	108
2.5. Relay USB	116
3. Platform Connection	124
3.1. Download App	125
3.2. Platform configuration	126
3.3. Carlos Silva	133
4. Quick Start Guides	138

1. Introduction



This manual describes **good practices** recommended by Nayar Systems S.L. Any improper manipulation, damage caused during the installation of the device and, in general, an incorrect use not explained in this document may void the warranty. Nayar Systems S.L. is not responsible for damage as a result of ignoring the indications and recommendations included in this manual.

The device must be manipulated only by **qualified and skilled professionals** with specific technical knowledge to avoid a failure of the device due to inappropriate manipulation.

This manual explains how to **connect a GSR with an elevator device**, and then how to **set the mentioned device in the [Net4Machines Smart Control](#) platform**.

It is divided in two main sections: Physical Connections and Platform Configuration.

To correctly follow the instructions, the ideal sequence is the following one:

1. Look for the elevator device that is going to be connected to the GSR in the [Physical Connections](#) section.
2. Connect it following the given instructions.
3. Go to the [Platform Connection](#) section and follow the steps mentioned there.

Download Nayar Systems' app:

Download the iOS version		
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Download the Android version		
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2. Physical Connections

[Controller](#)

[Variable Speed Drivers](#)

[Binary Acquisition card](#)

2.1. Controller

[Edel Advanced K2](#)

[Hitachi MCUB](#)

[KONE Monospace](#)

[Monarch Nice 3000+](#)

[MP](#)

[Mitsubishi Nexway](#)

[Orona Arca 2](#)

[OTIS](#)

[Rekoba EKM 66 / EKM 68](#)

[Schindler 3300](#)

[Step AS380](#)

[Thyssen CMC3](#)

[SJEC](#)

[Sodimas qi touch](#)

2.1.1. Edel Advanced K2

! Compatible with versions previous to **EN81-50** (EN81-50 not compatible).

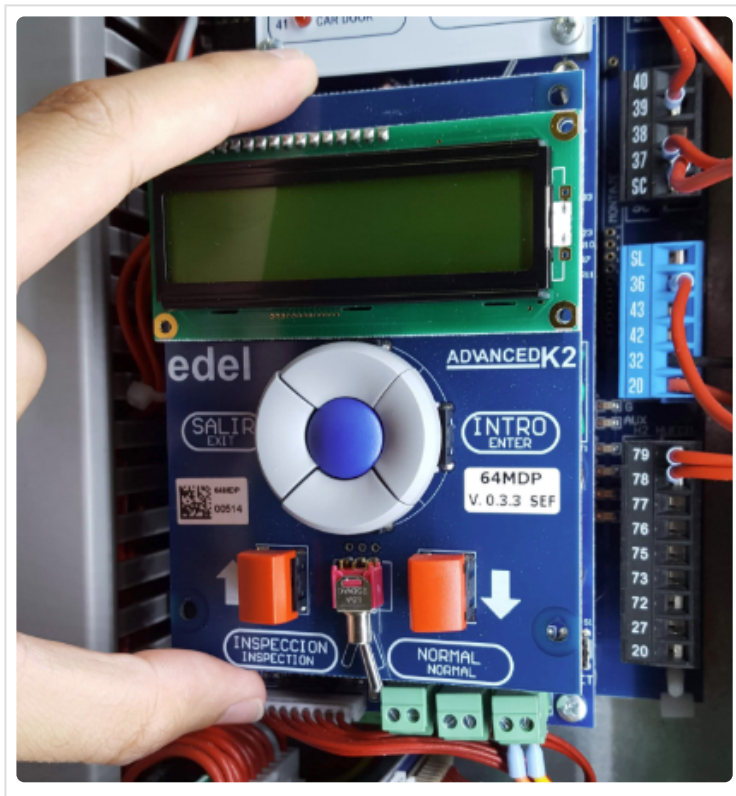
* Before starting, follow the [Installation and Start-up guide](#)

1. Connections available for GSR

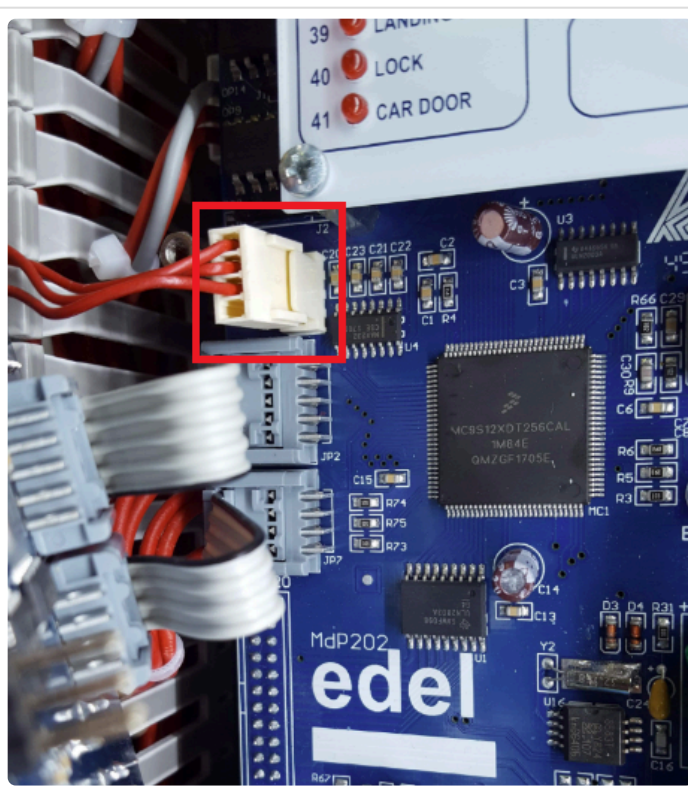
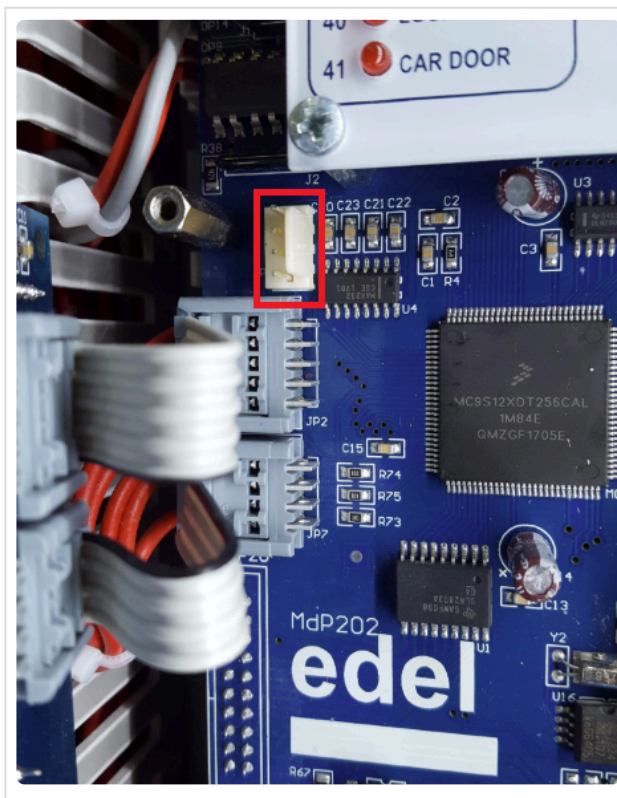
RS232 option	USB option
	
EDE Advanced K2 Toolkit RS232	EDE Advanced K2 Toolkit USB

2. Connection to controller

1. Remove the console.



2. Locate connector **JP1** and connect the cable to it.



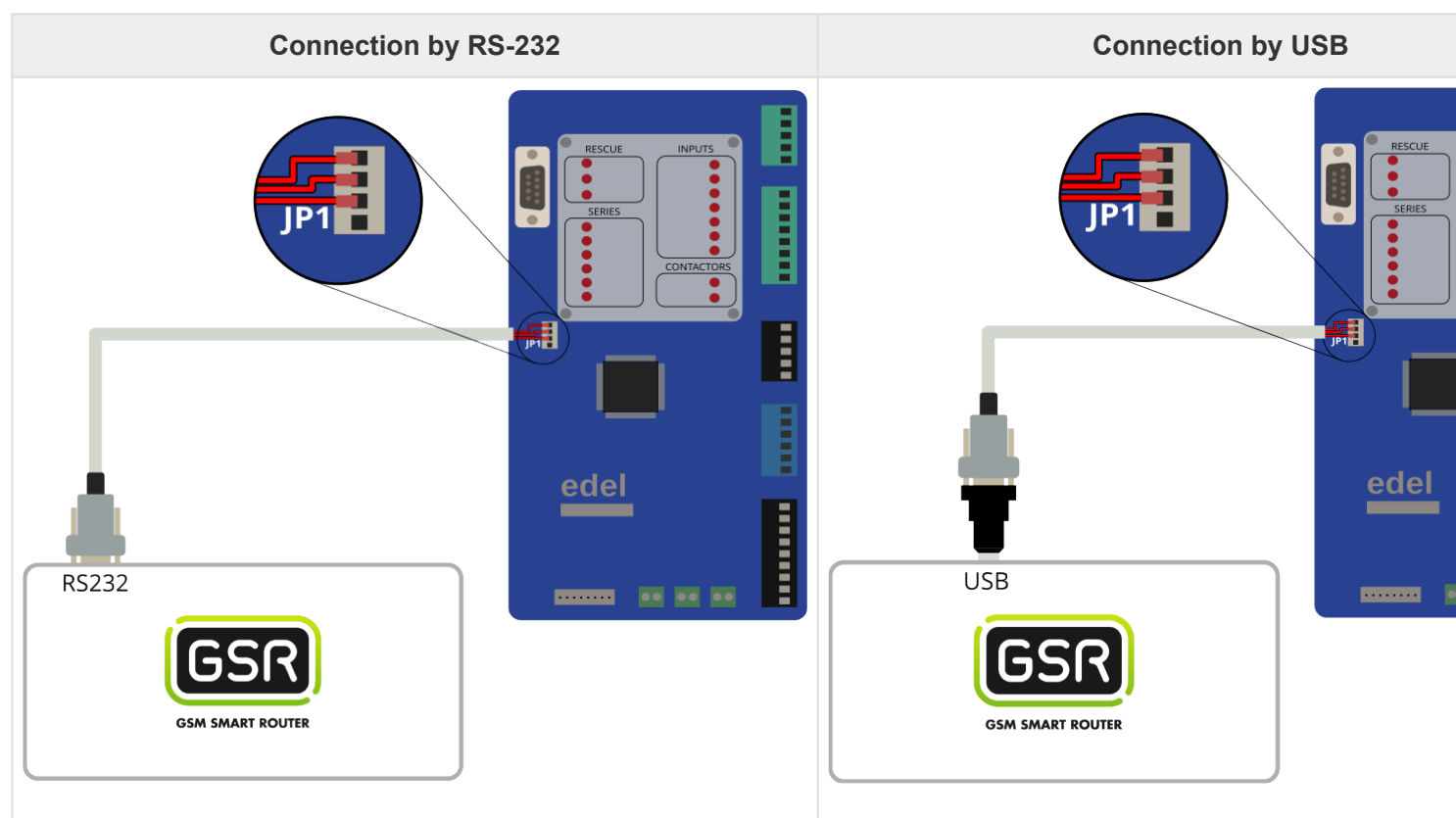
3. According to the type of connection in GSR, use one of the ports below

Connection by RS-232

Connection by USB



4. Make the connection.



 [Follow the next steps in Platform use](#)

2.1.2. Hitachi MCUB

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

- 2x wires for CAN connection

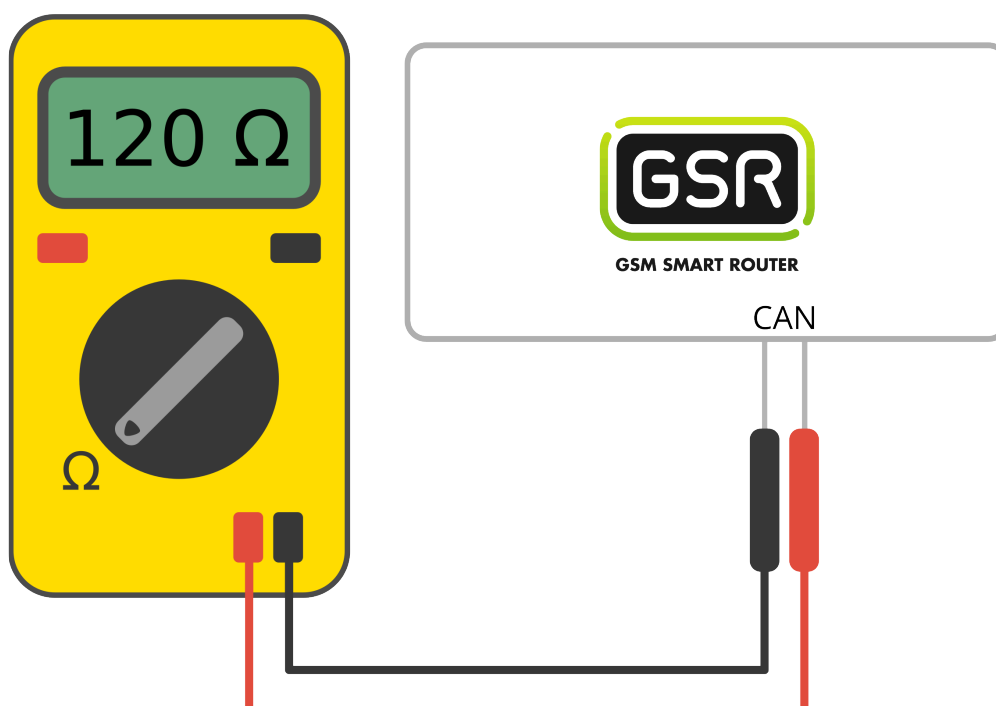


HIT MCUB Toolkit

* Check if your GSR has a sticker indicating that the end of bus resistors are deactivated. If yes, go to the step **2. Connection**.



! If your GSR does not have the sticker, check the resistance value with a tester. When the resistors are activated, the value is 120Ω. The following steps describes how to deactivate the resistors before going to step **2. Connection**.



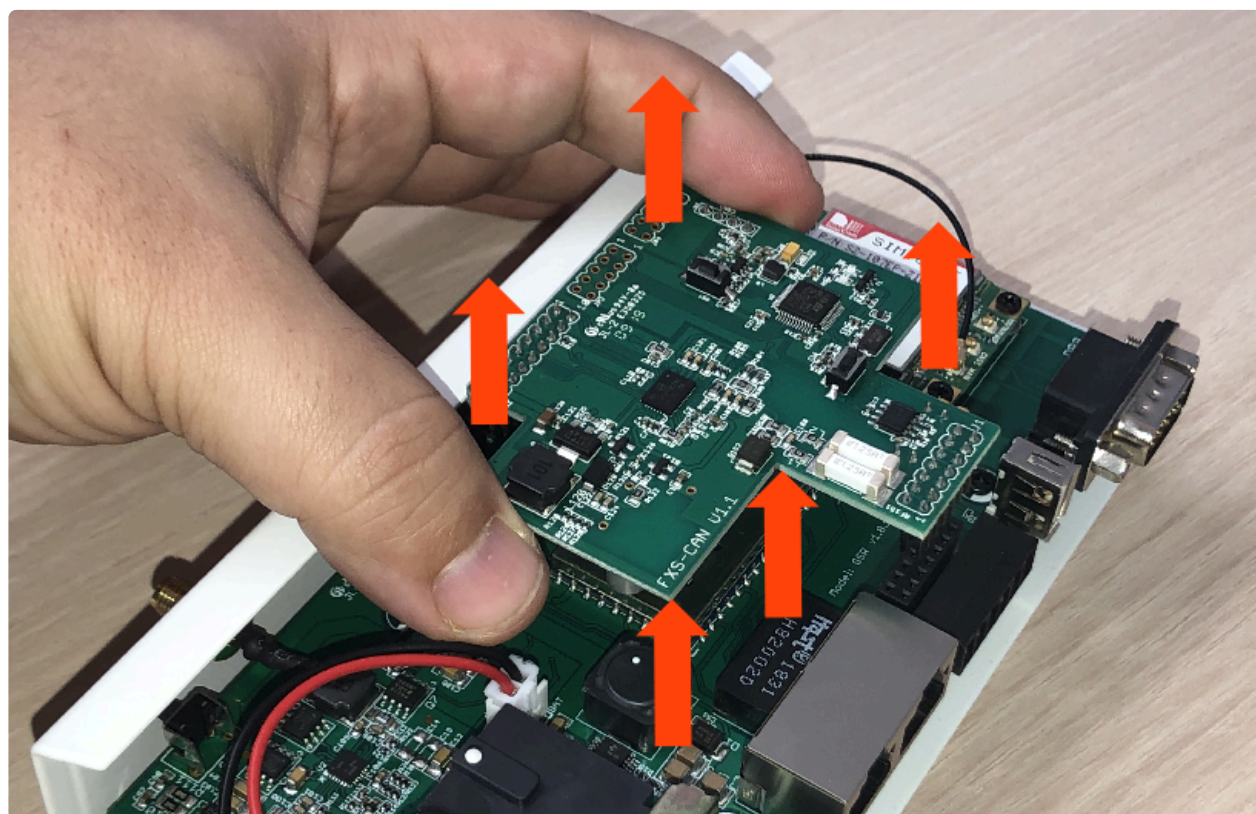
1. Remove the 6 screws from the base and sides



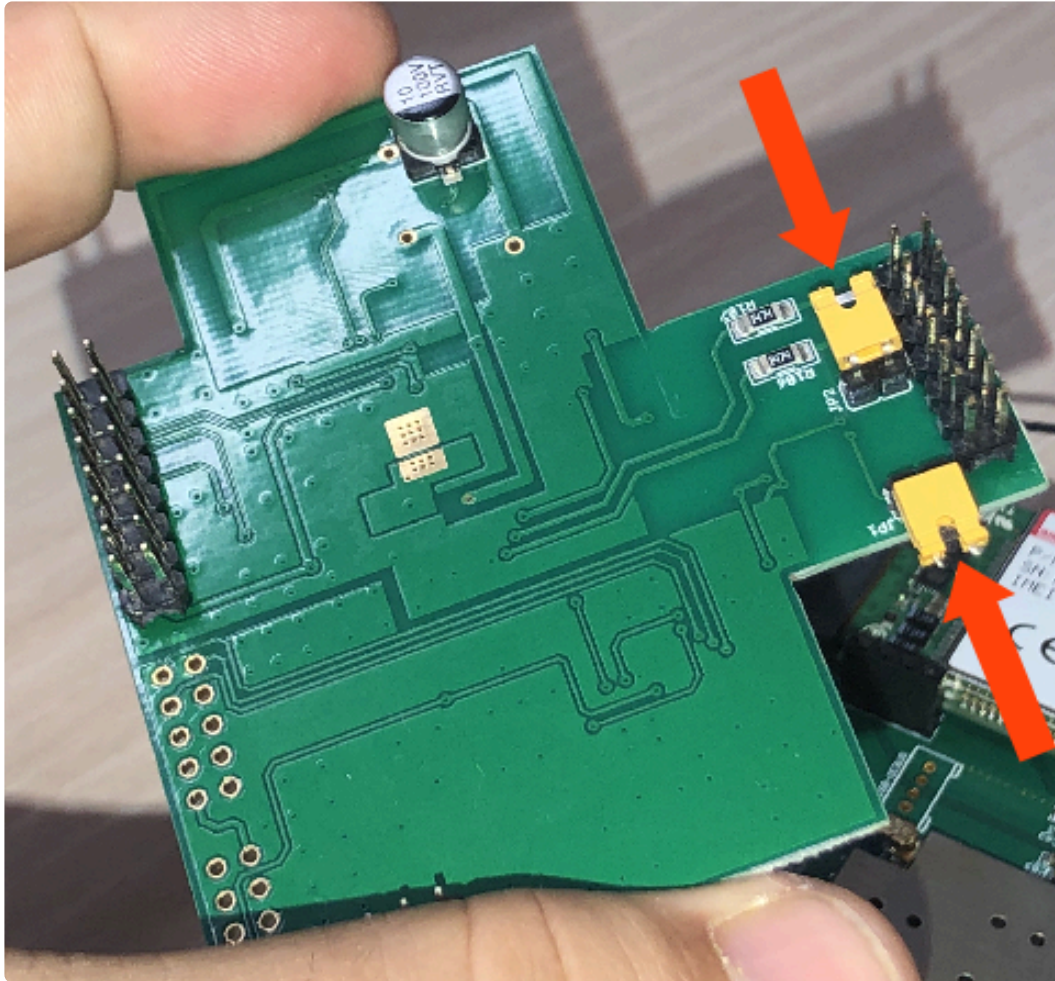
2. Slide the **cover** until it is removed from the **GSR**



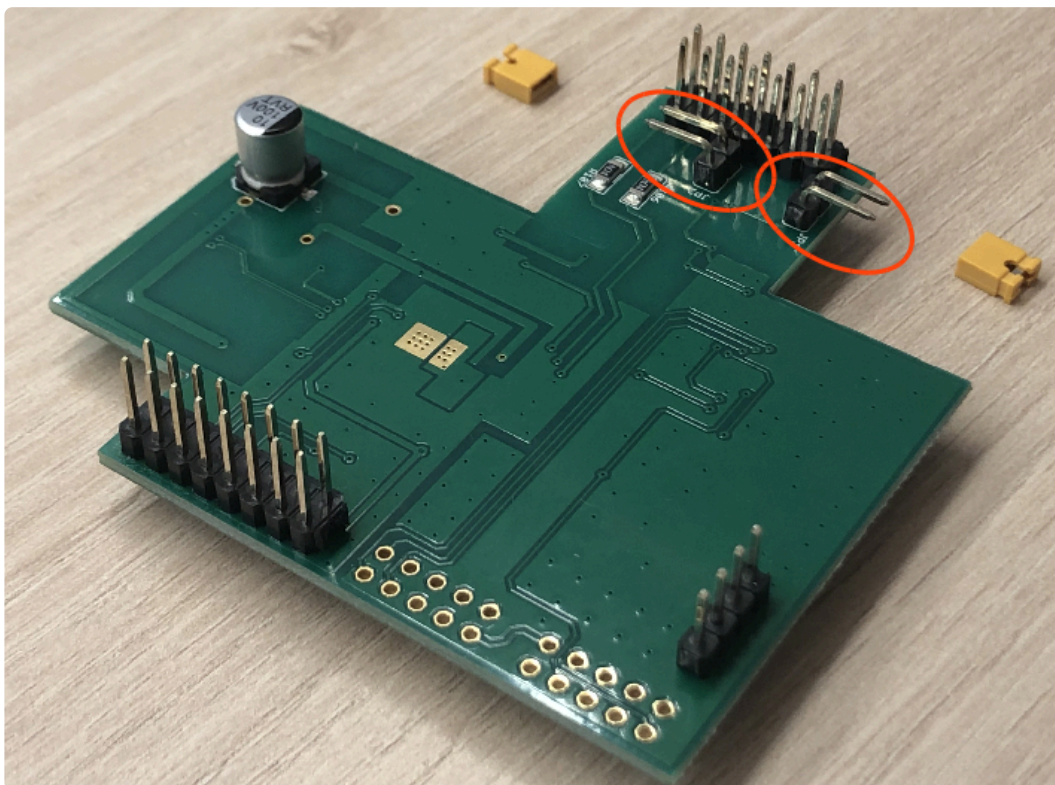
3. Remove the **FXS-CAN** board pulling gently and equally on both sides



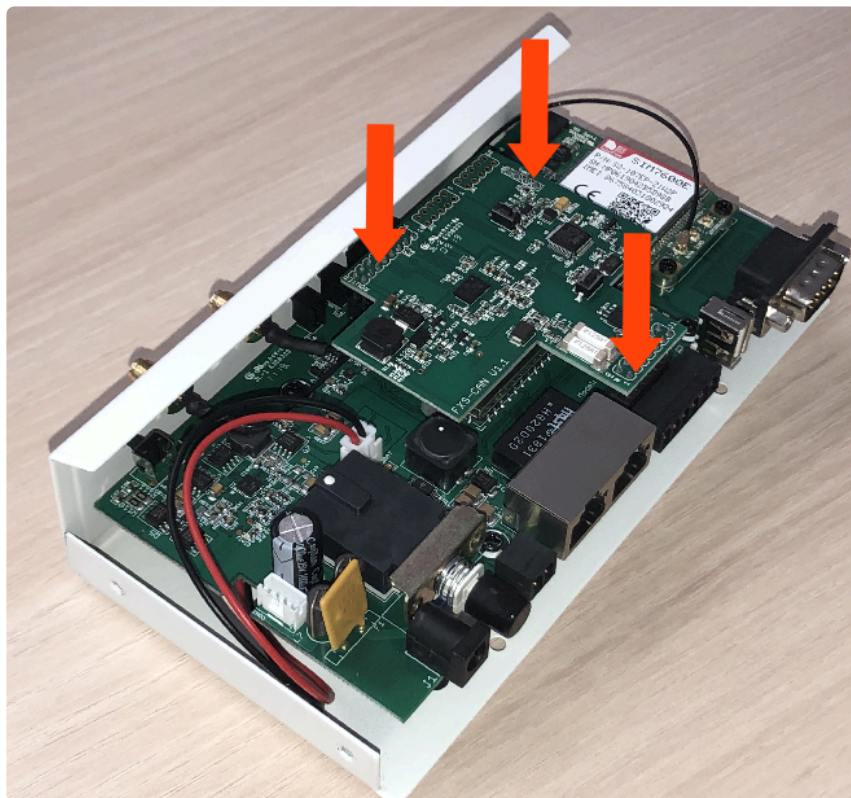
4. Turn around and check that the **jumpers** are on



5. Remove the **jumpers** to deactivate the resistors



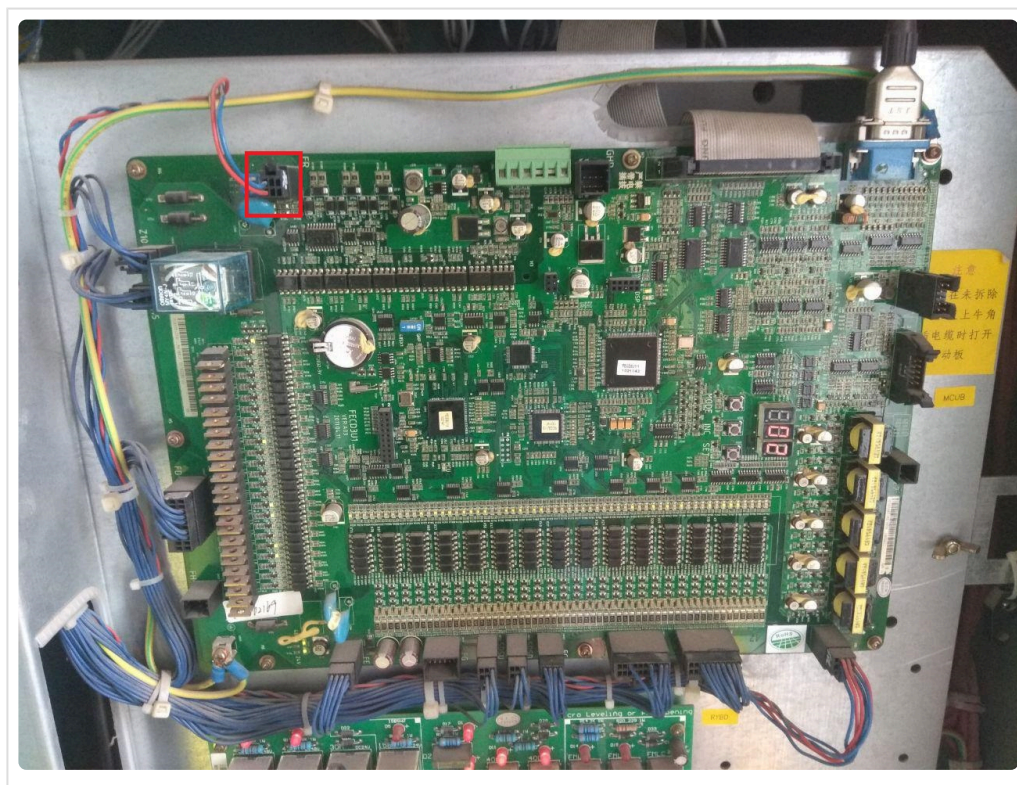
6. Place the **FXS-CAN** gently, confirming that all pins are aligned correctly

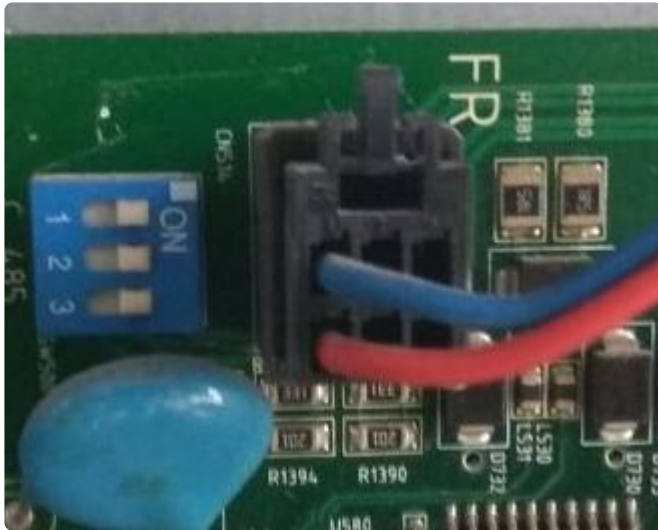


7. Reverse the steps to re-assemble the **GSR**

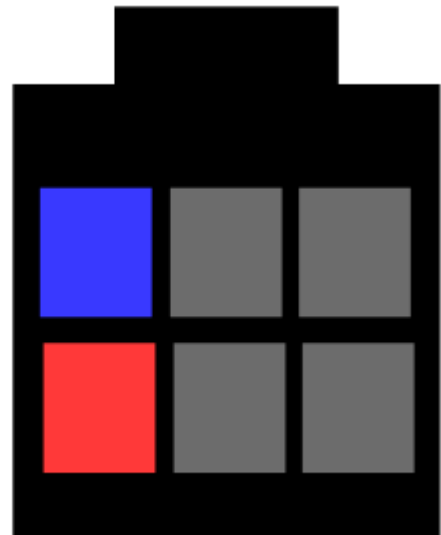
2. Connection

1. Locate connector **CN514** and connect as described:





CN514

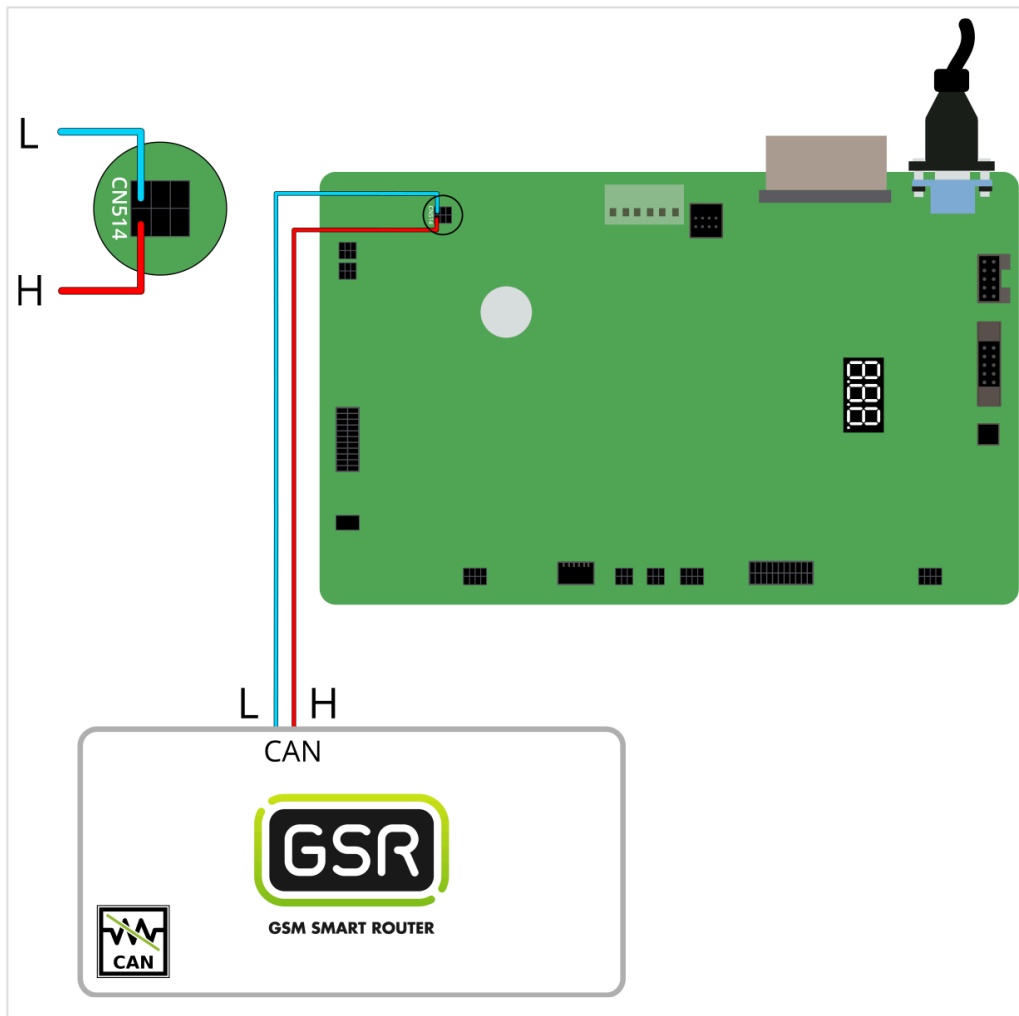


2. Locate **CAN** connector on GSR.



3. Make the connection.

Controller	CAN GSR
Blue	L
Red	H



✿ Follow the next steps in [Platform use](#)

2.1.3. KONE Monospace

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

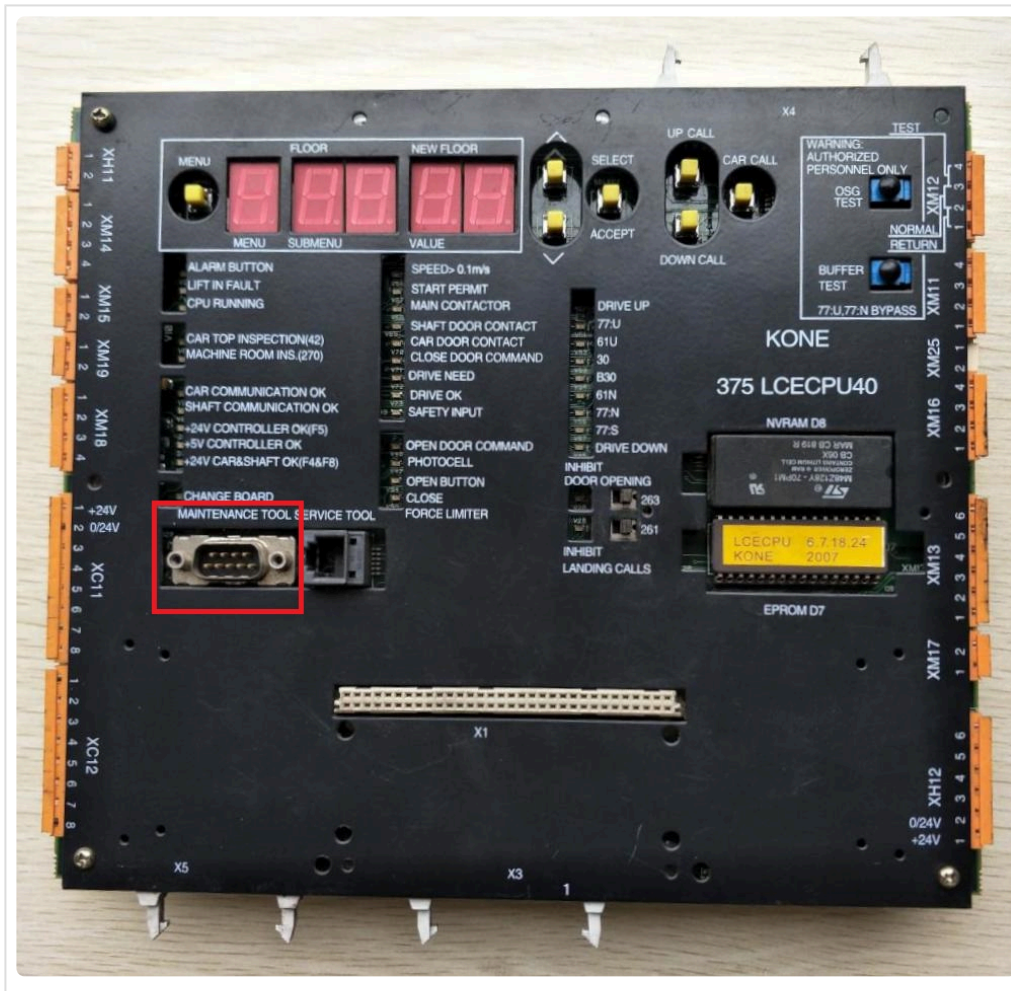
- 0-modem RS-232 cross cable



KON Monospace Toolkit

2. Connection

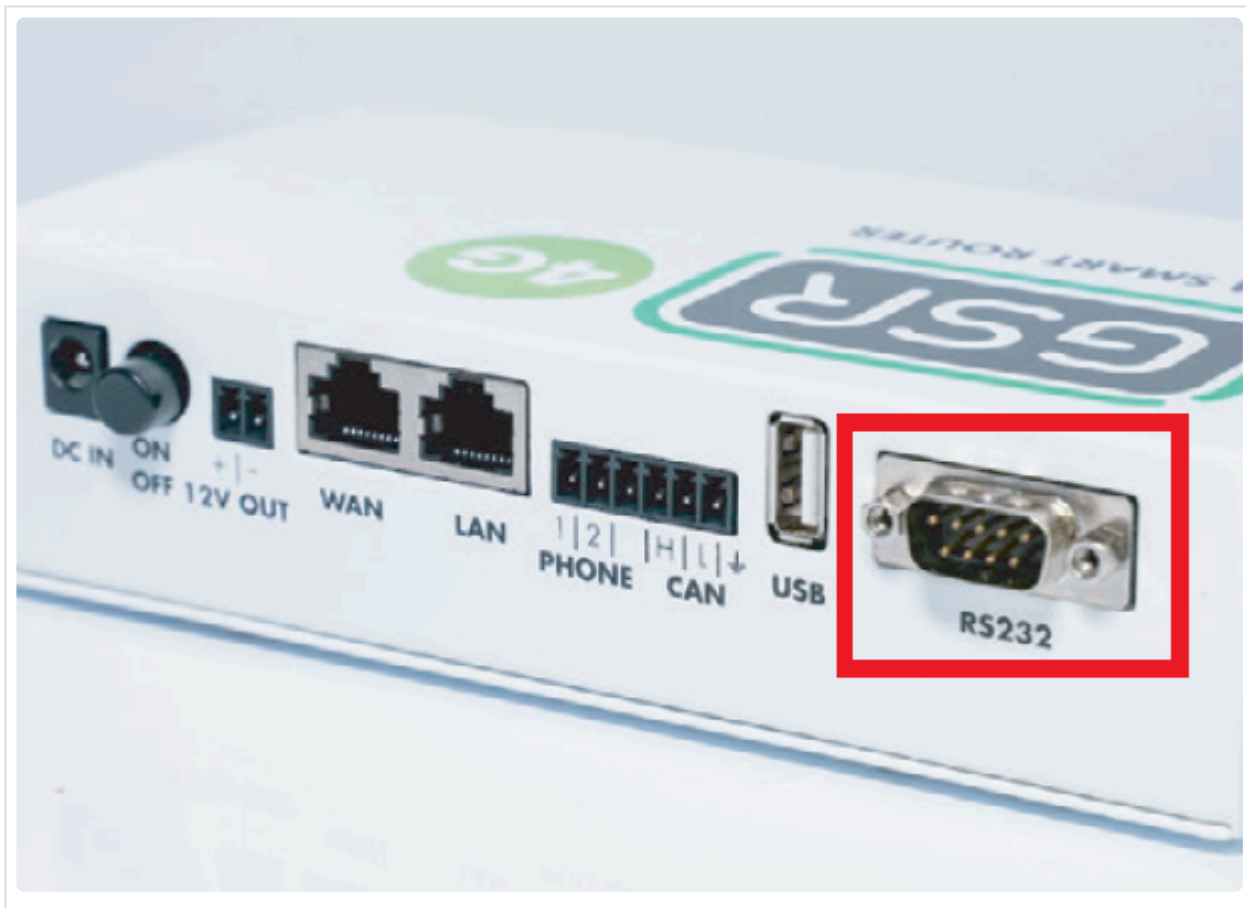
1. Determine if the facility has a conventional machine room or if it is machine room-less. In case there is a **machine room**, follow steps from 2 to 4. Otherwise, if it is **machine room-less**, follow steps from 5 to 8.
2. If the facility has a conventional **machine room** locate the **MANTEINANCE TOOL** connector:



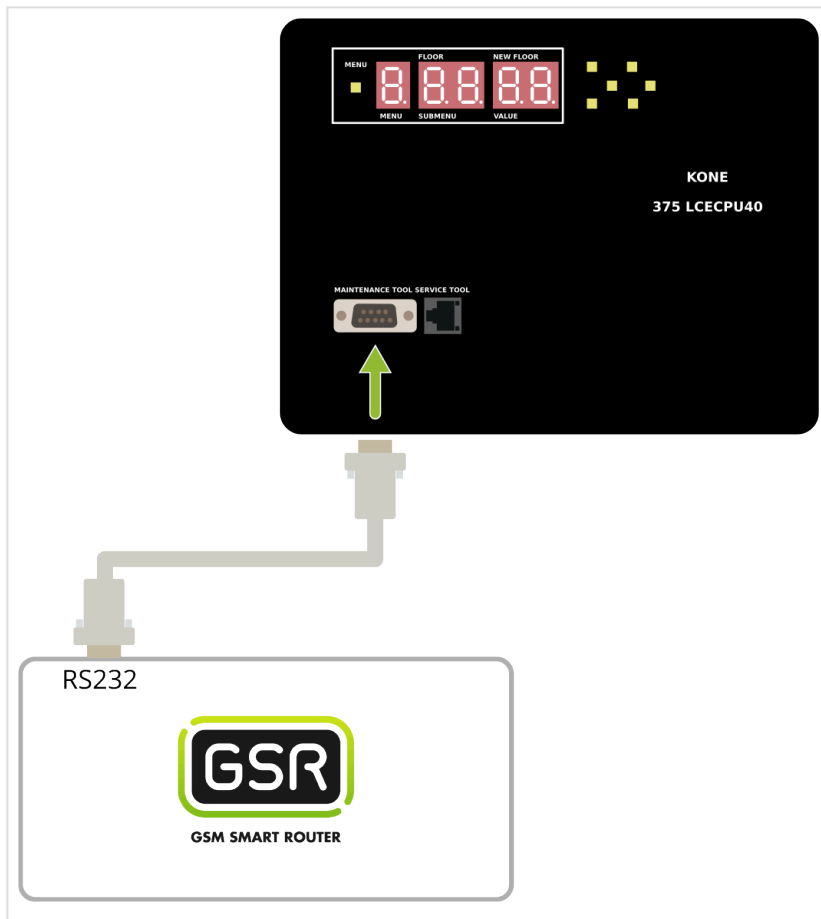
3. Connect the 0-modem RS-232 cross cable to the **MAINTENANCE TOOL** connector:



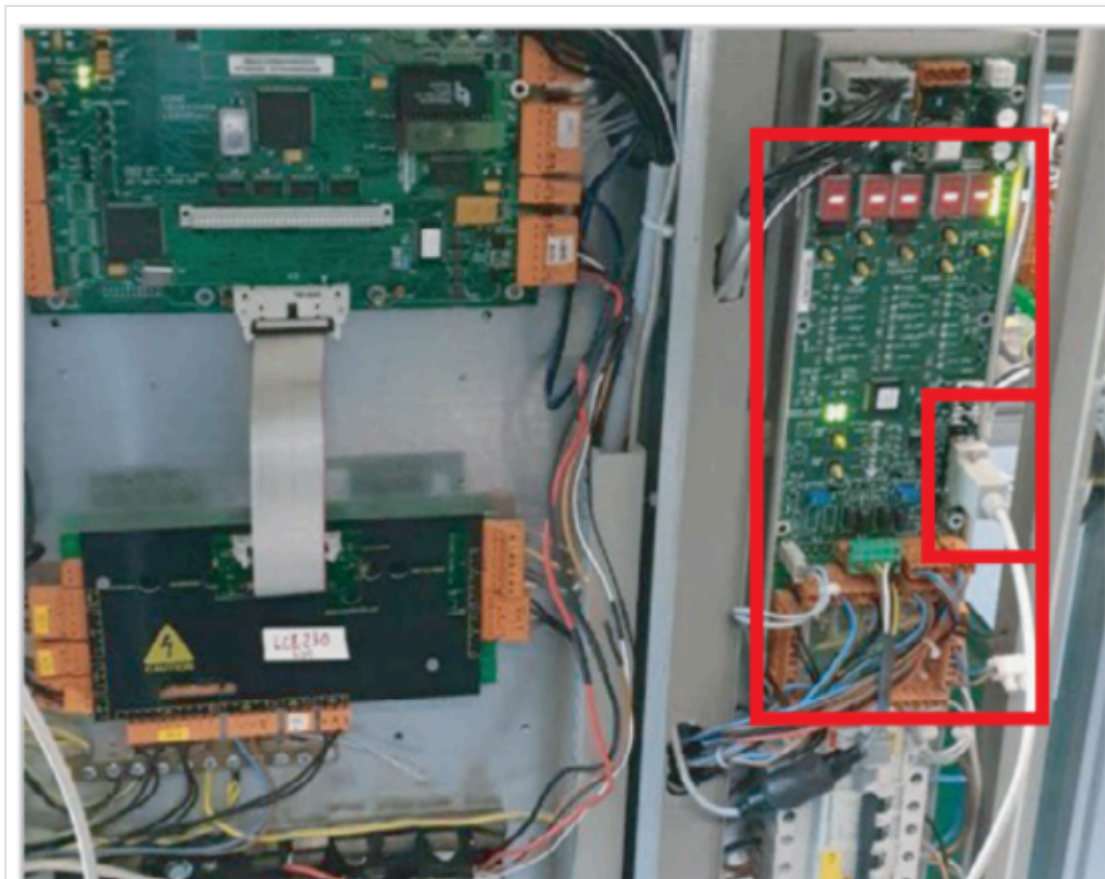
4. Locate the **RS232** connector on GSR.



5. Make the connection.



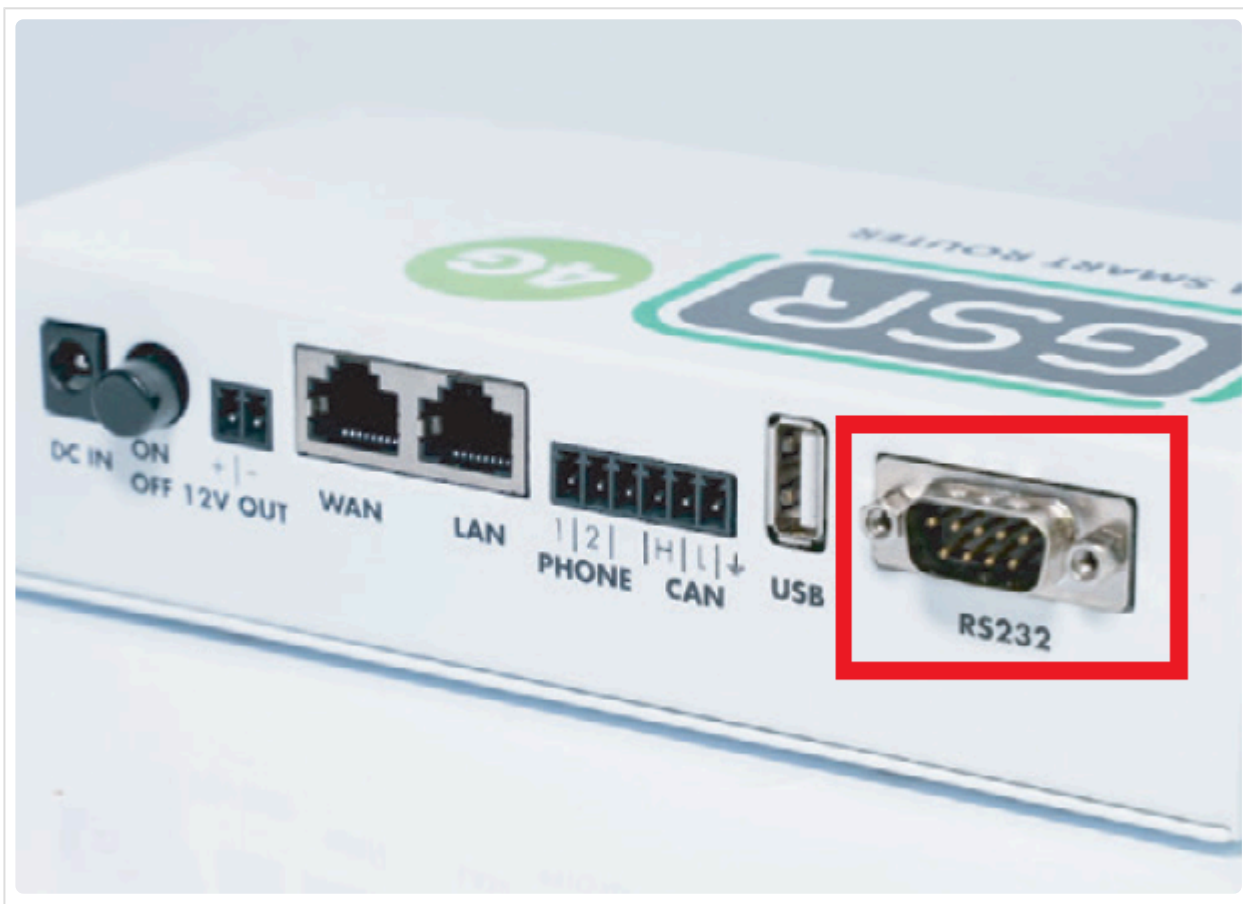
6. If the facility is **machine room-less** locate connector **XL7**.



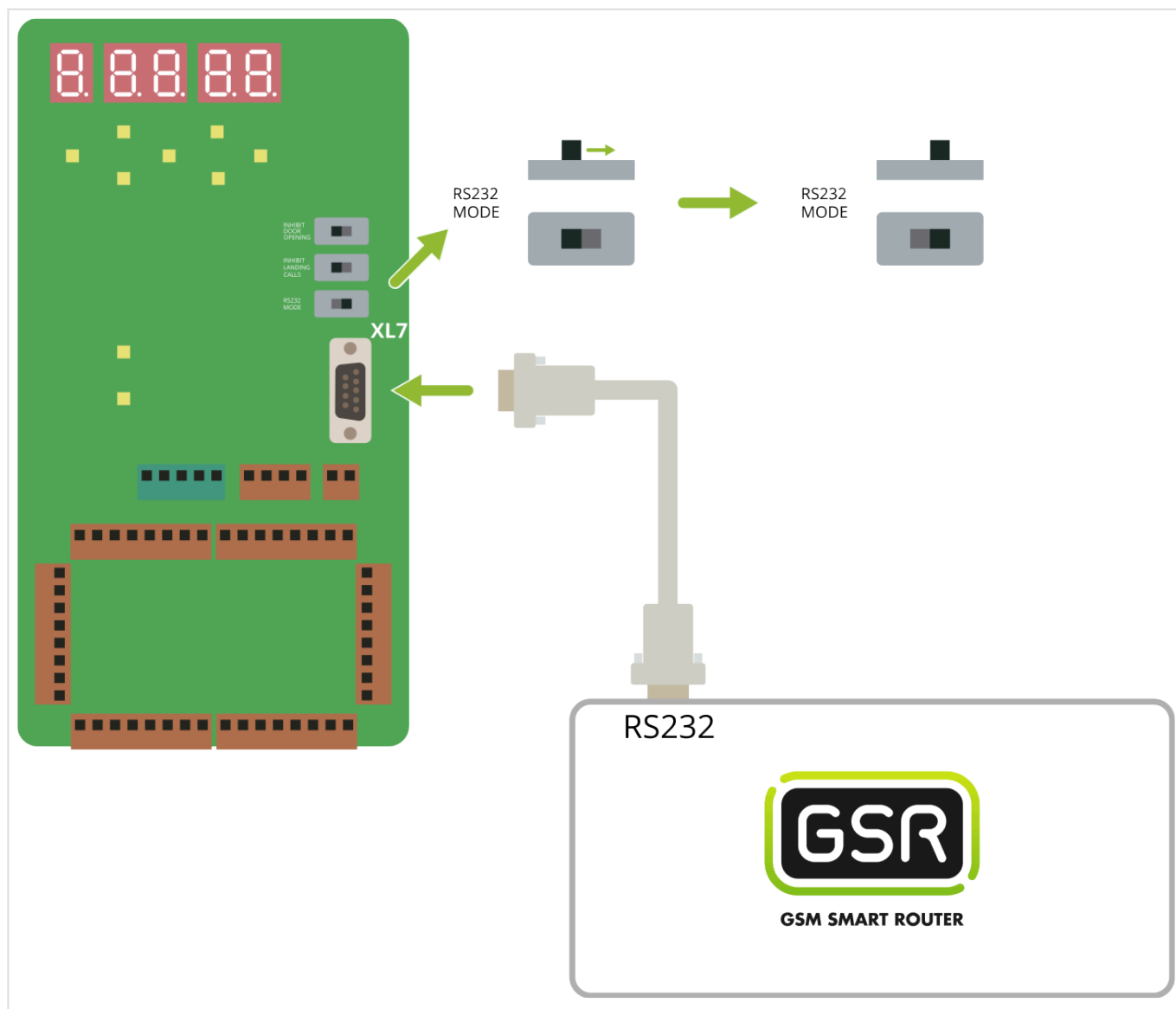
7. Connect the 0-modem RS-232 cross cable to the **XL7** connector.



8. Locate the **RS232** connector on GSR.



9. Make the connection and change switch RS232 MODE to the right, as described in the picture.



* [Follow the next steps in Platform use](#)

2.1.4. Monarch Nice 3000+

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

- 2x wires for CAN connection

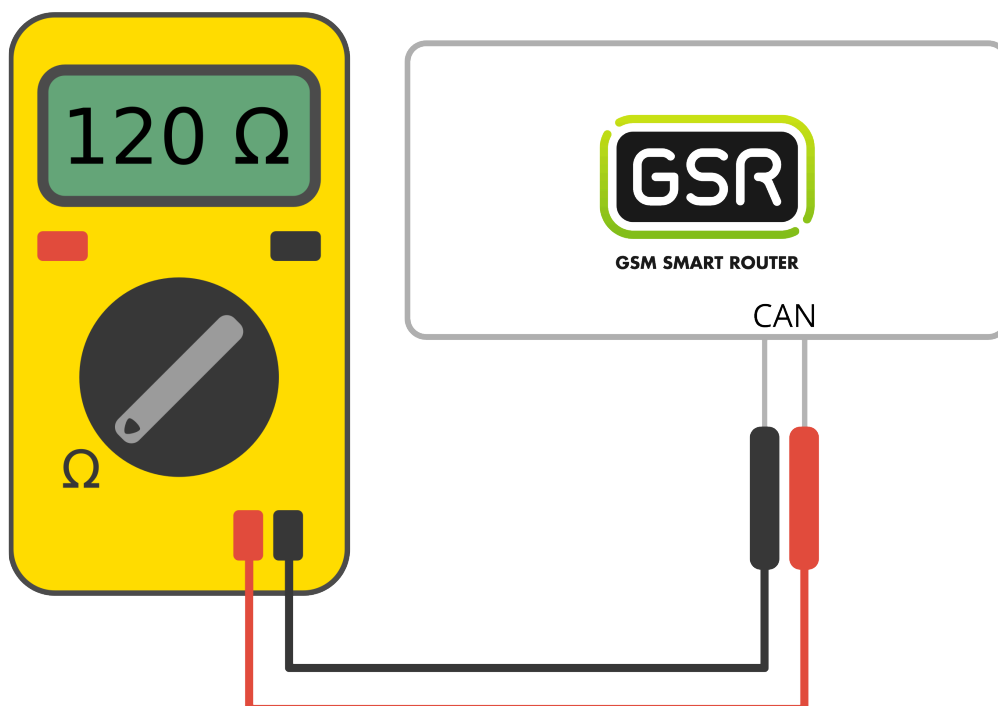


MON Nice 300 Toolkit

* Check if your GSR has a sticker indicating that the end of bus resistors are deactivated. If yes, go to the step **2. Connection**.



! If your GSR does not have the sticker, check the resistance value with a tester. When the resistors are activated, the value is 120Ω. The following steps describes how to deactivate the resistors before going to step **2. Connection**.



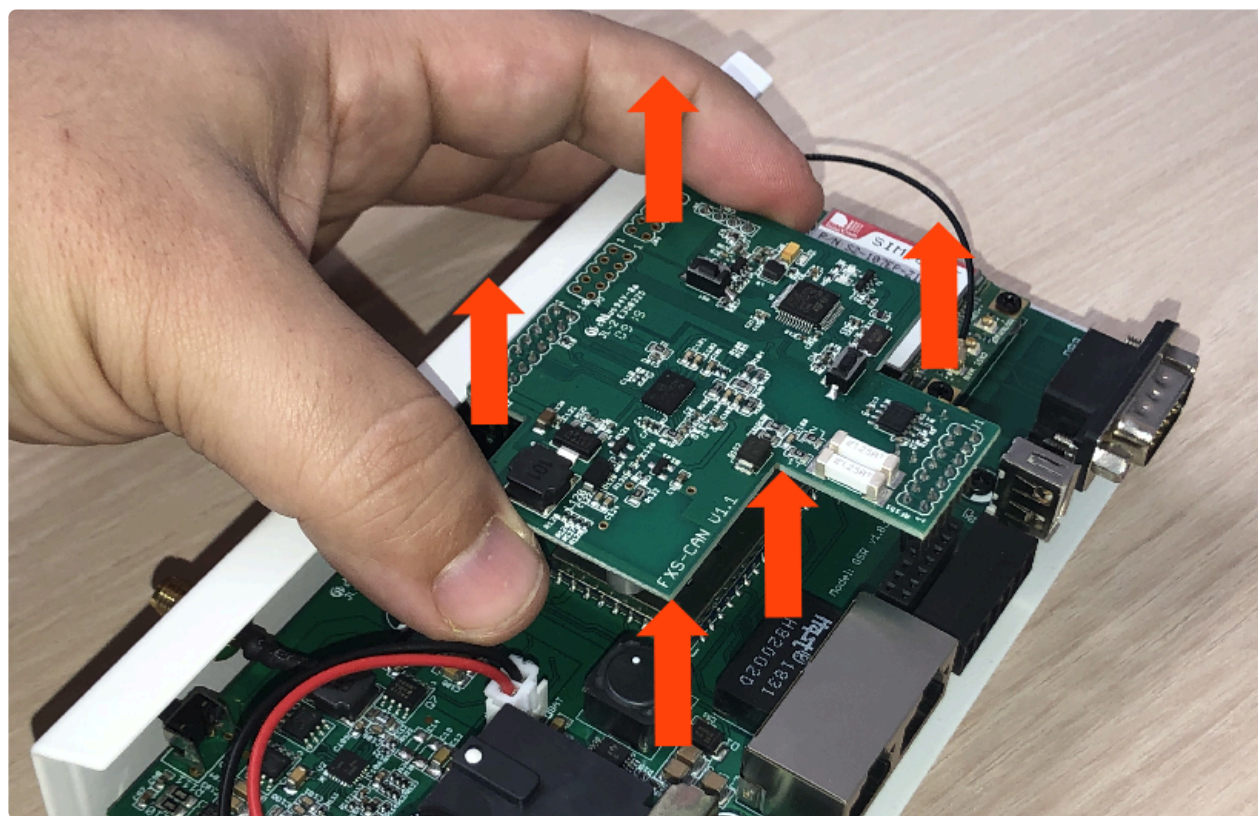
1. Remove the 6 screws from the base and sides



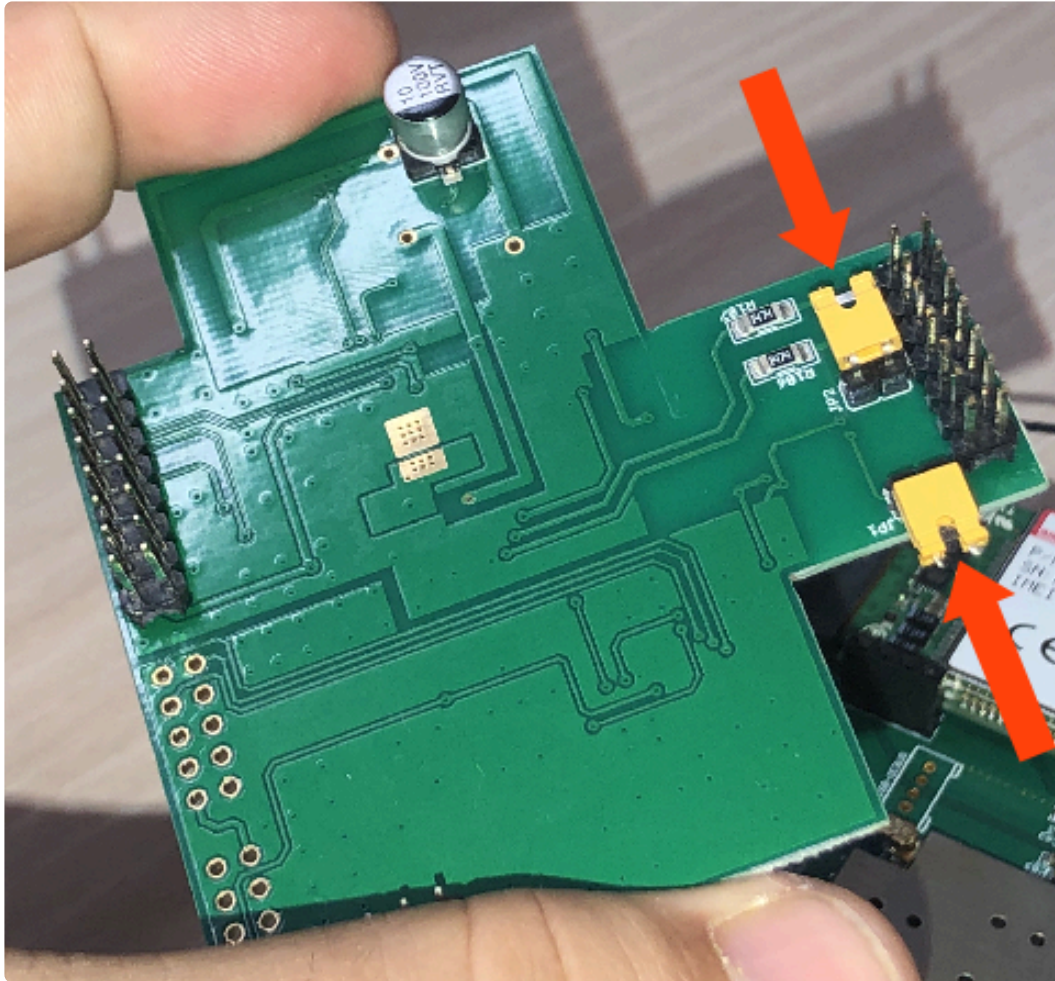
2. Slide the **cover** until it is removed from the **GSR**



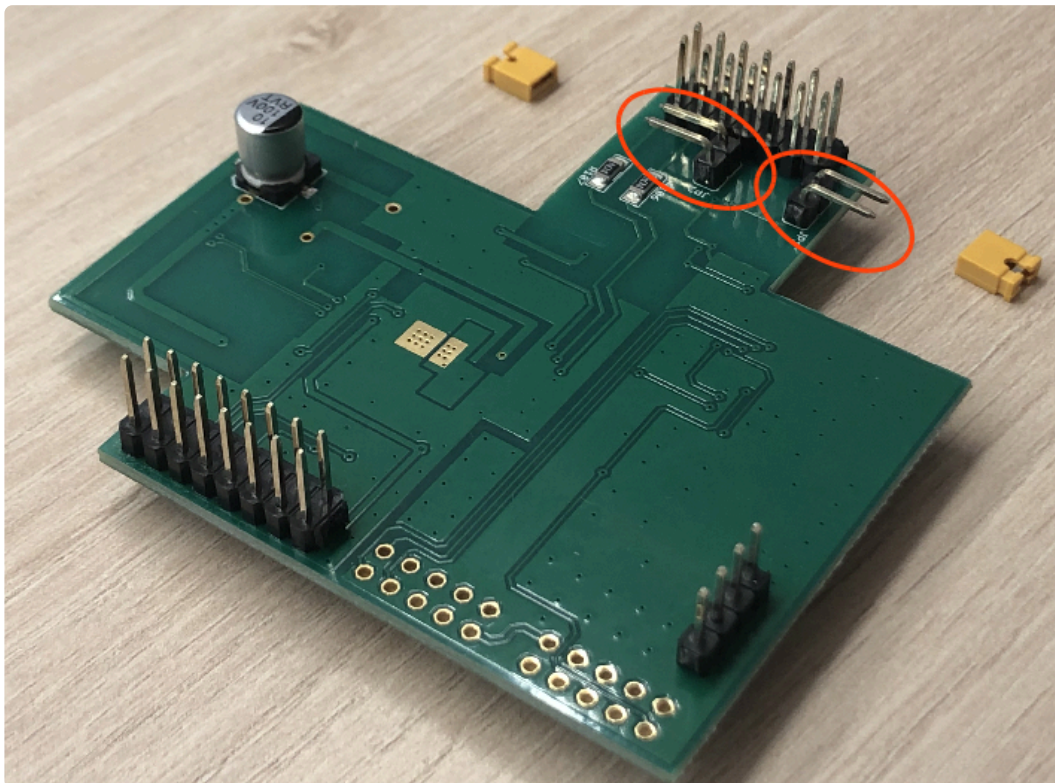
3. Remove the **FXS-CAN** board pulling gently and equally on both sides



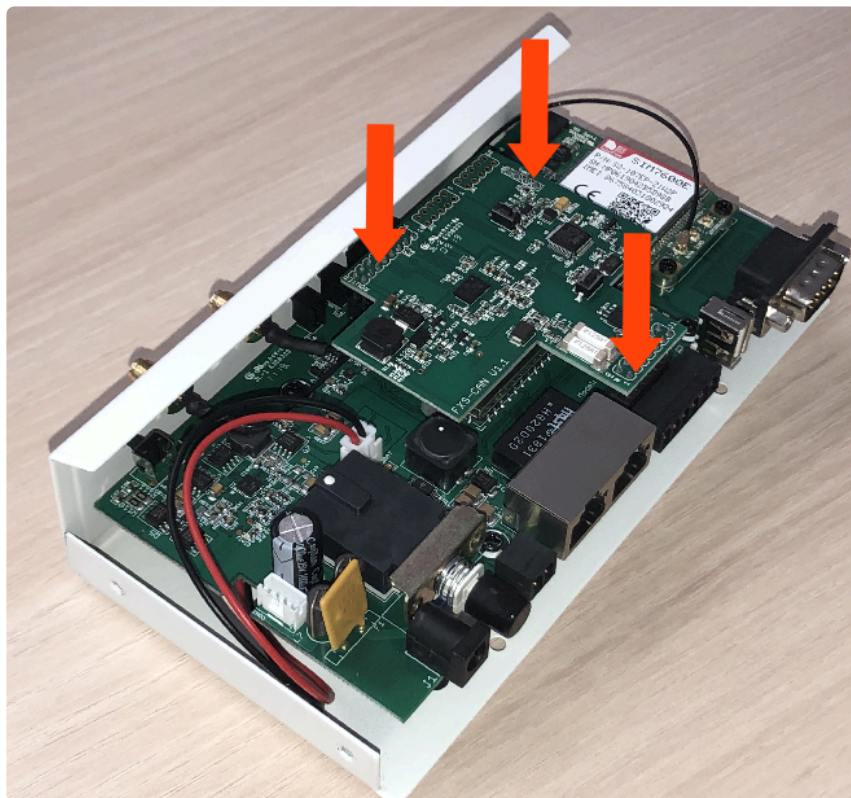
4. Turn around and check that the **jumpers** are on



5. Remove the **jumpers** to deactivate the resistors



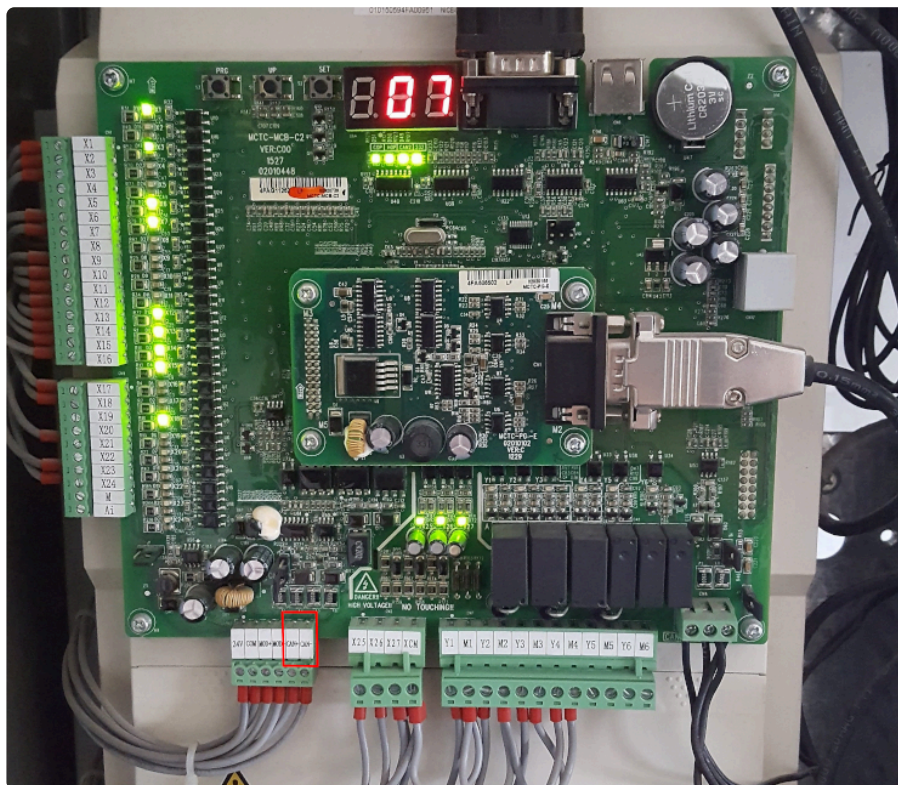
6. Place the **FXS-CAN** gently, confirming that all pins are aligned correctly



7. Reverse the steps to re-assemble the **GSR**

2. Connection

1. Locate the **CAN** connector on the controller.



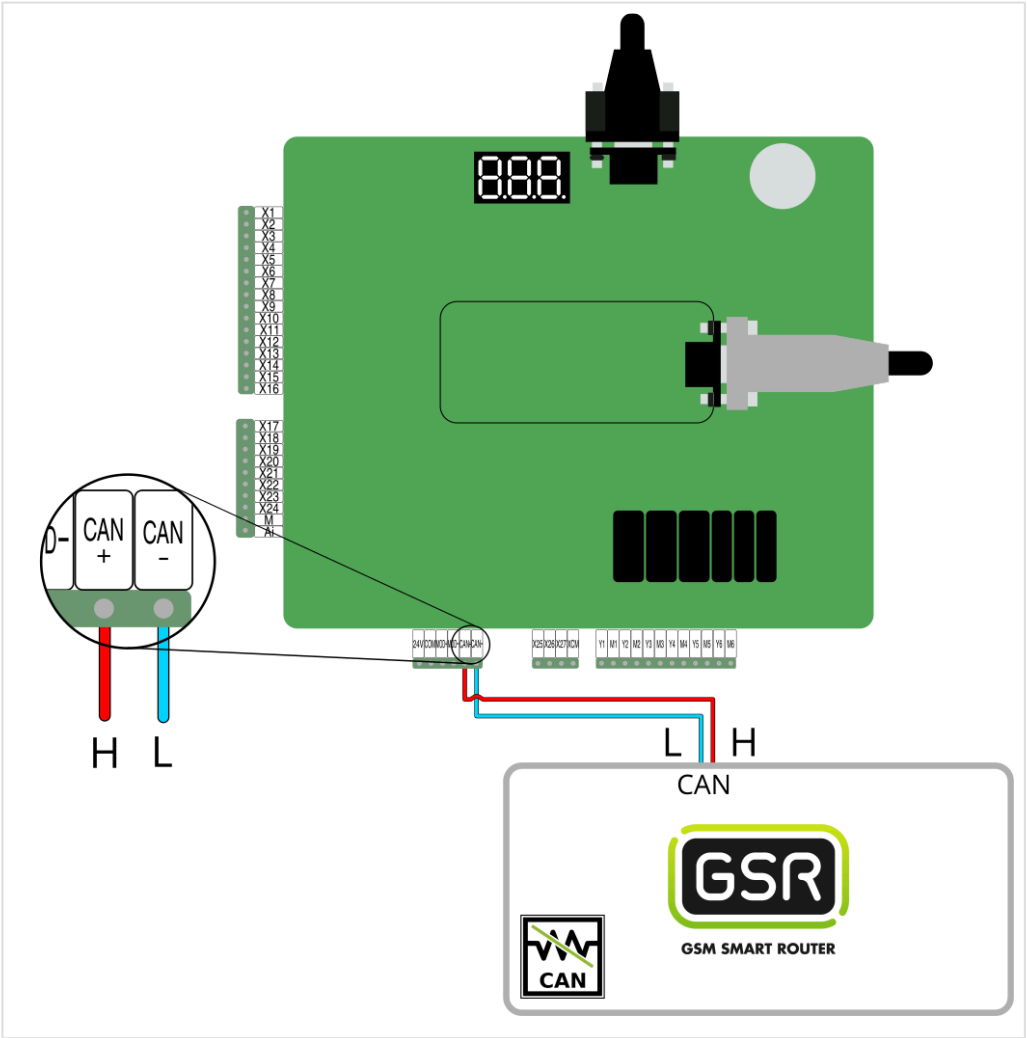


2. Locate **CAN** connectors on GSR.



3. Connect **CAN+** and **CAN-** terminals to GSR's **CAN** as described:

Controller	GSR CAN
CAN+	H
CAN-	L



 [Follow the next steps in Platform use](#)

2.1.5. MP

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

- 2x wires for CAN connection

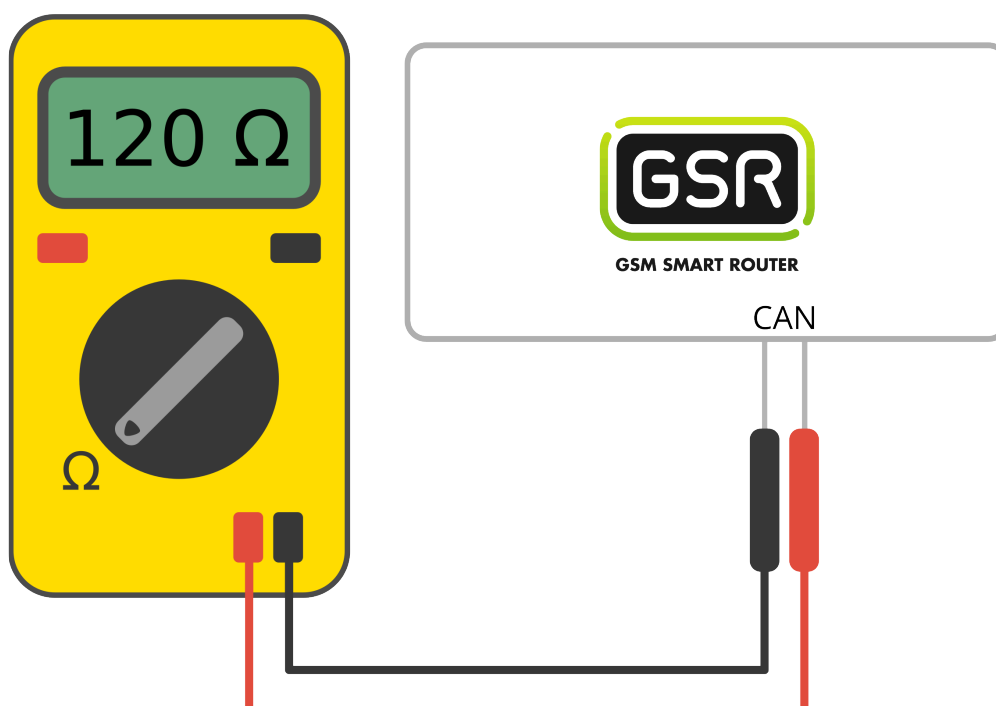


MPU Toolkit

* Check if your GSR has a sticker indicating that the end of bus resistors are deactivated. If yes, go to the step **2. Connection**.



! If your GSR does not have the sticker, check the resistance value with a tester. When the resistors are activated, the value is 120Ω. The following steps describes how to deactivate the resistors before going to step **2. Connection**.



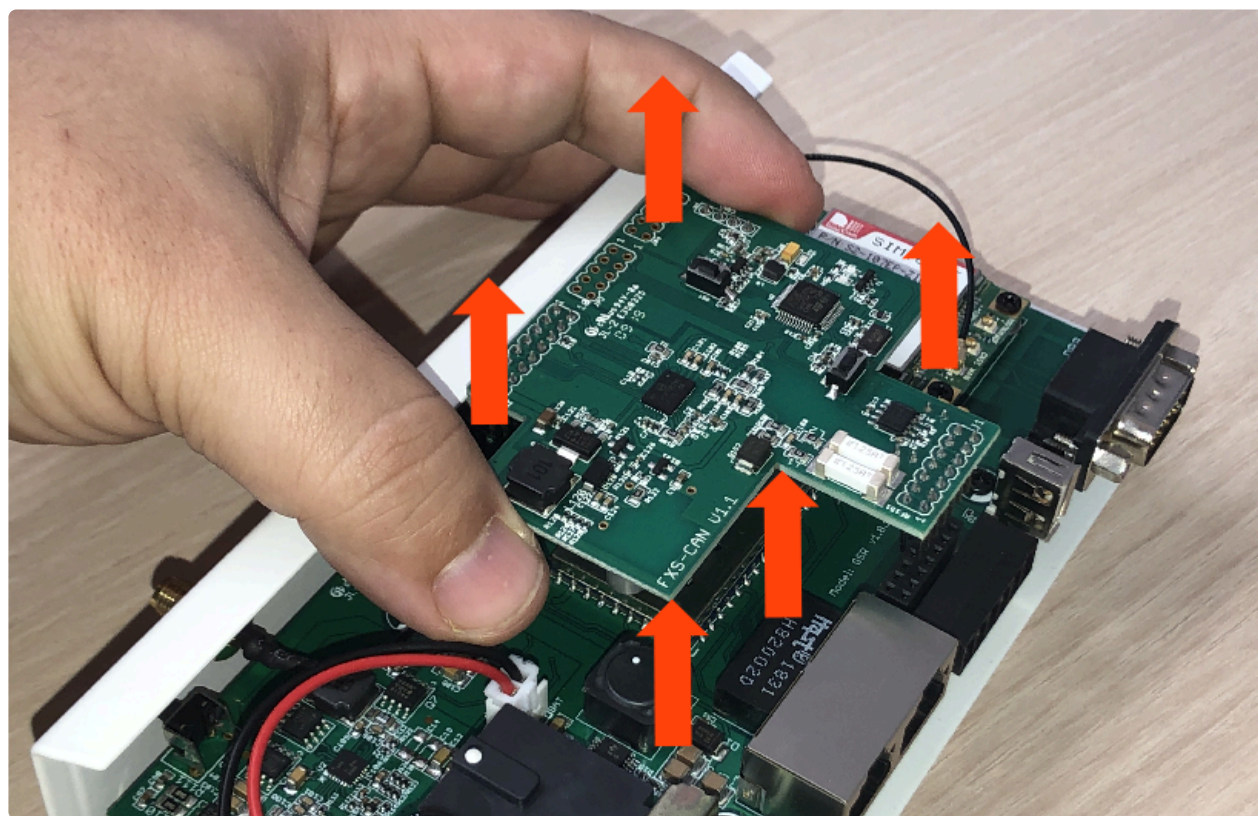
1. Remove the 6 screws from the base and sides



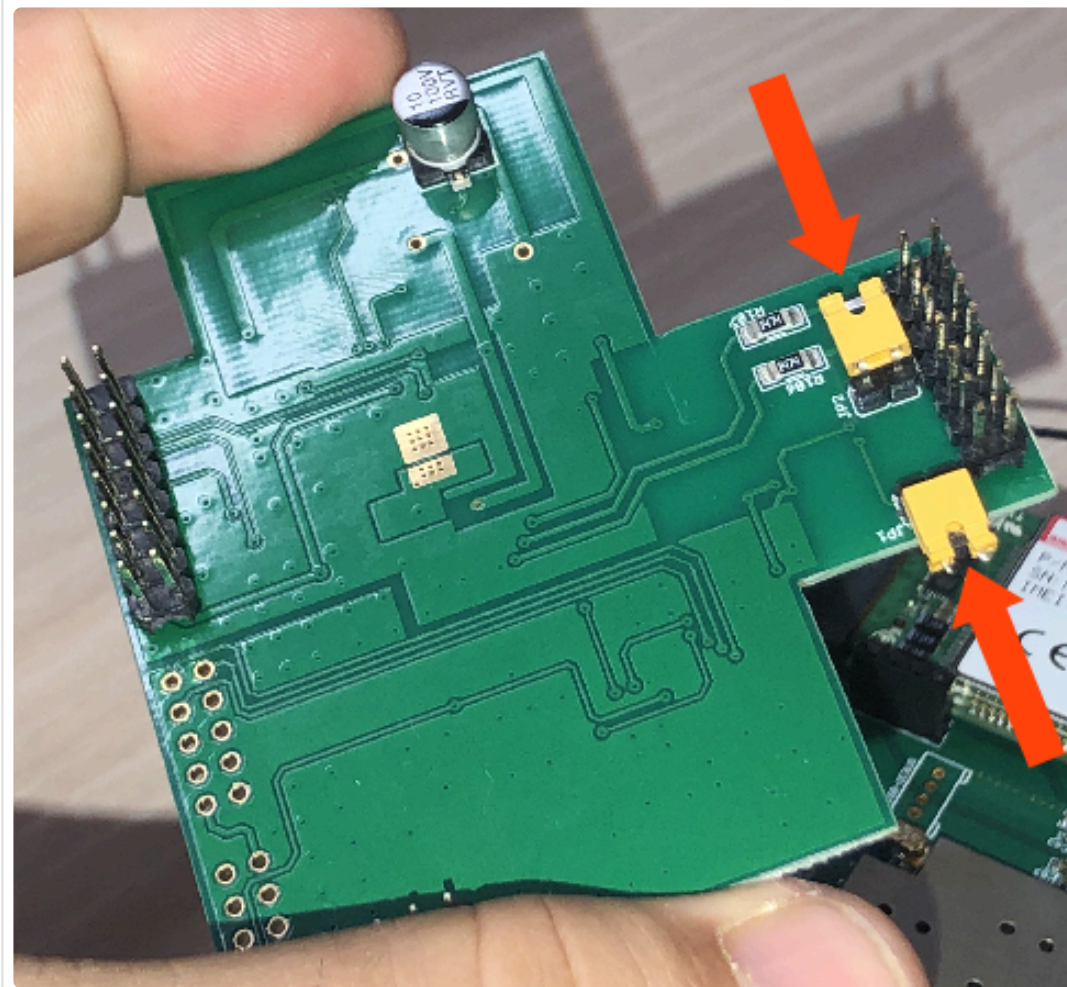
2. Slide the **cover** until it is removed from the **GSR**



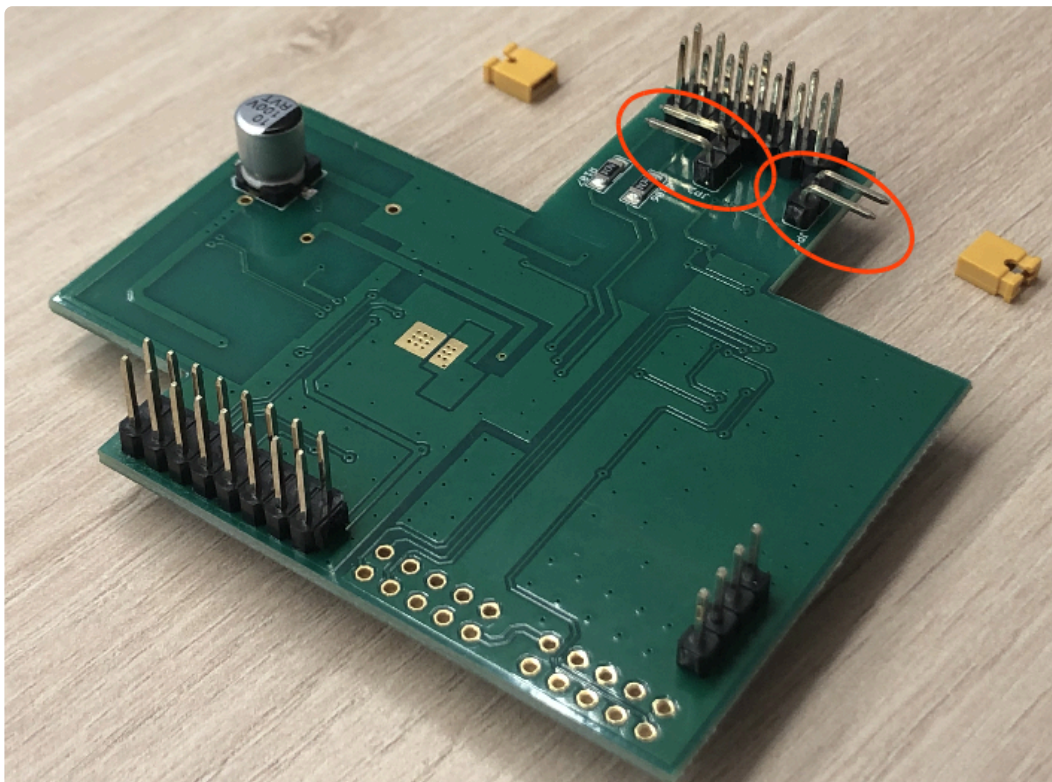
3. Remove the **FXS-CAN** board pulling gently and equally on both sides



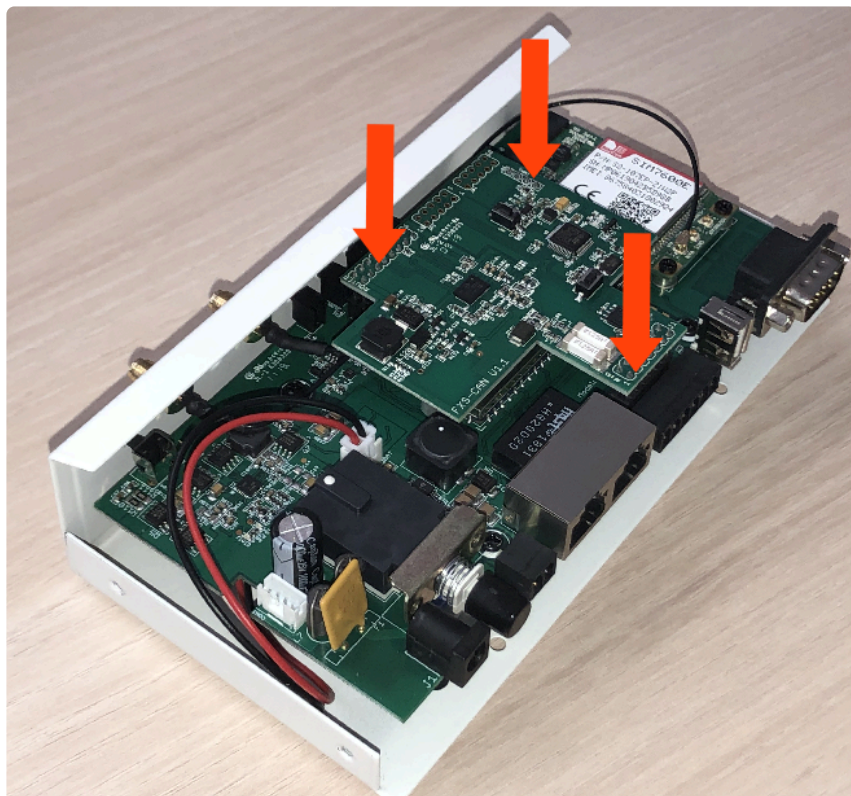
4. Turn around and check that the **jumpers** are on



5. Remove the **jumpers** to deactivate the resistors



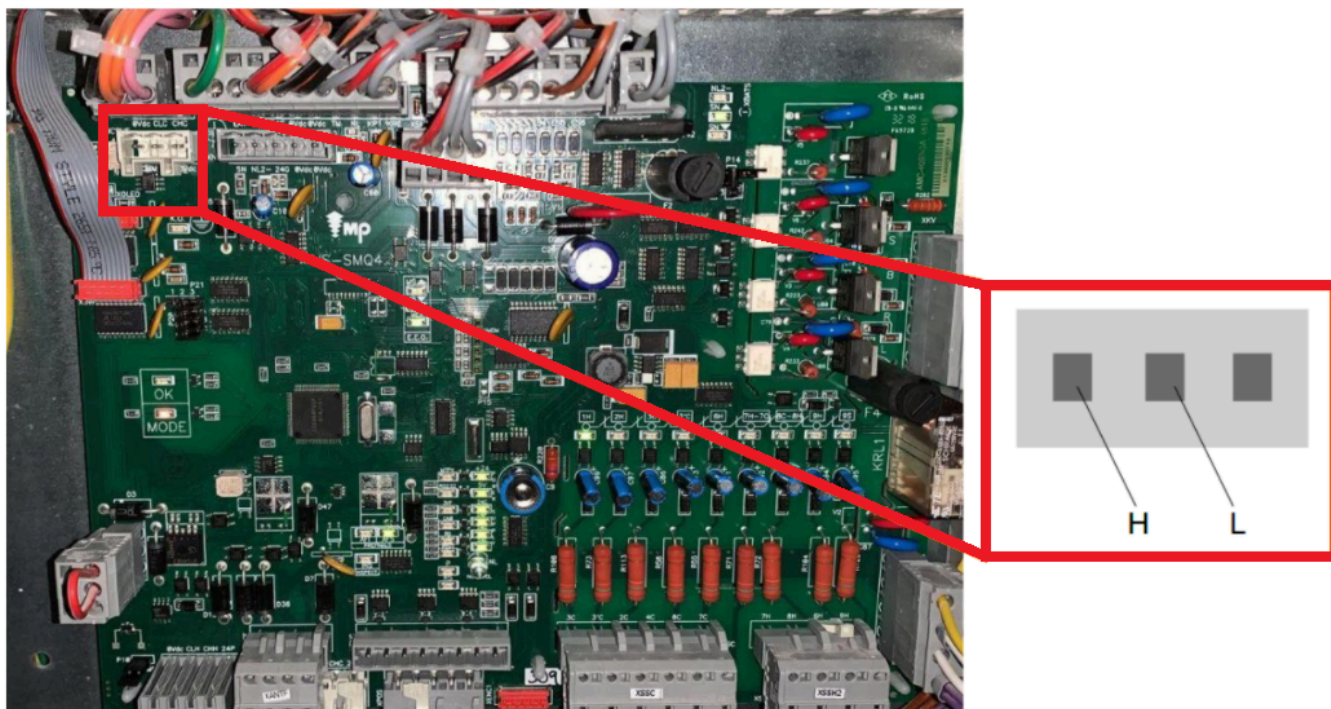
6. Place the **FXS-CAN** gently, confirming that all pins are aligned correctly



7. Reverse the steps to re-assemble the **GSR**

2. Connection

1. Locate connector **XMCBUS**.

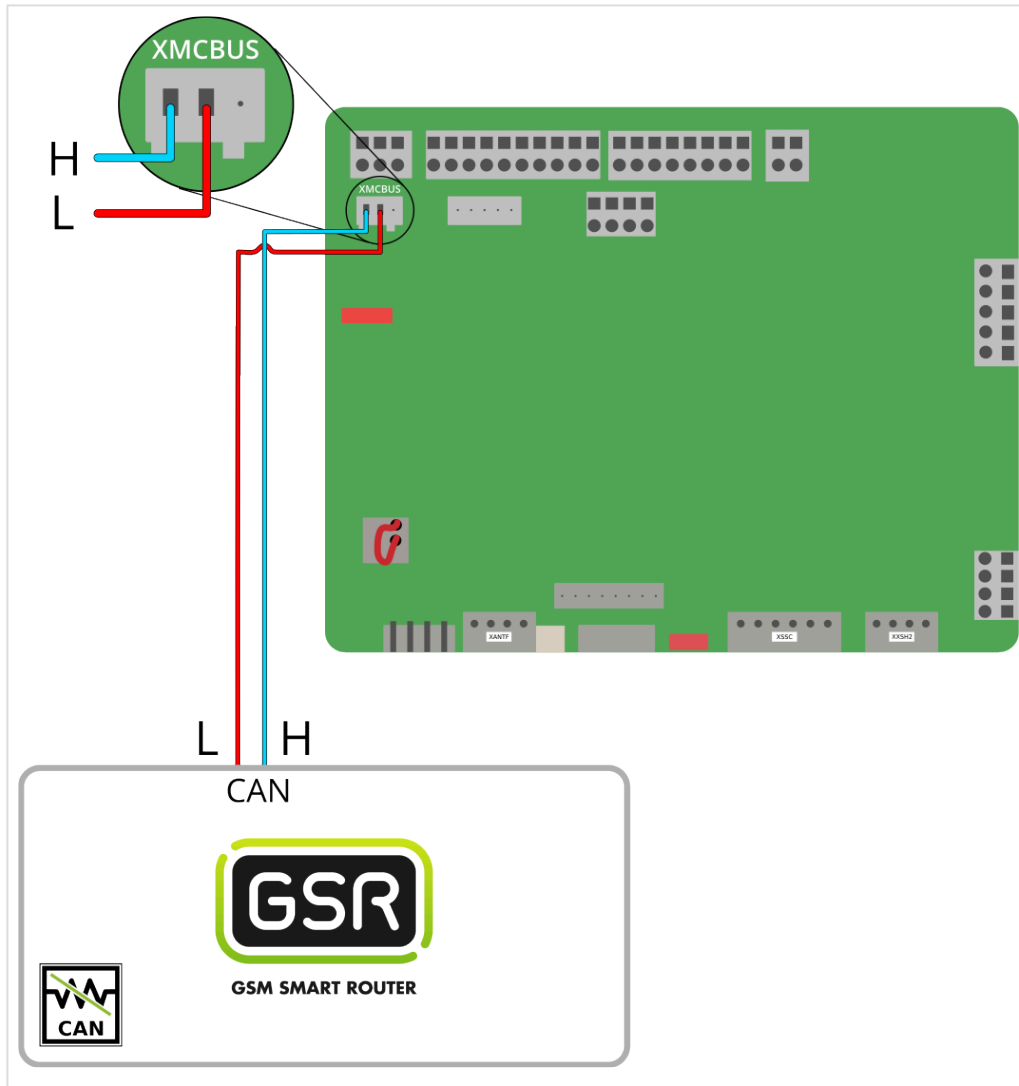


2. Locate **CAN** connectors on GSR.



3. Connect as described:

Controller	GSR CAN
CHM	H
CLM	L



Follow the next steps in [Platform use](#)

2.1.6. Mitsubishi Nexway

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

- 2x wires for CAN connection

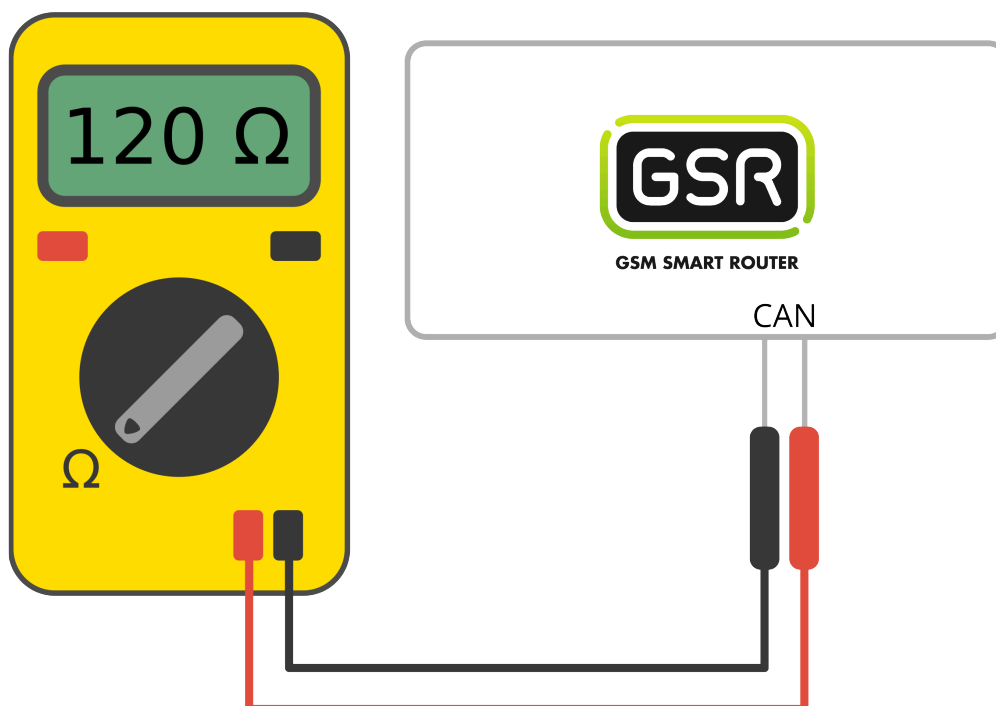


MIT Nexway Toolkit

* Check if your GSR has a sticker indicating that the end of bus resistors are deactivated. If yes, go to the step **2. Connection**.



! If your GSR does not have the sticker, check the resistance value with a tester. When the resistors are activated, the value is 120Ω. The following steps describes how to deactivate the resistors before going to step **2. Connection**.



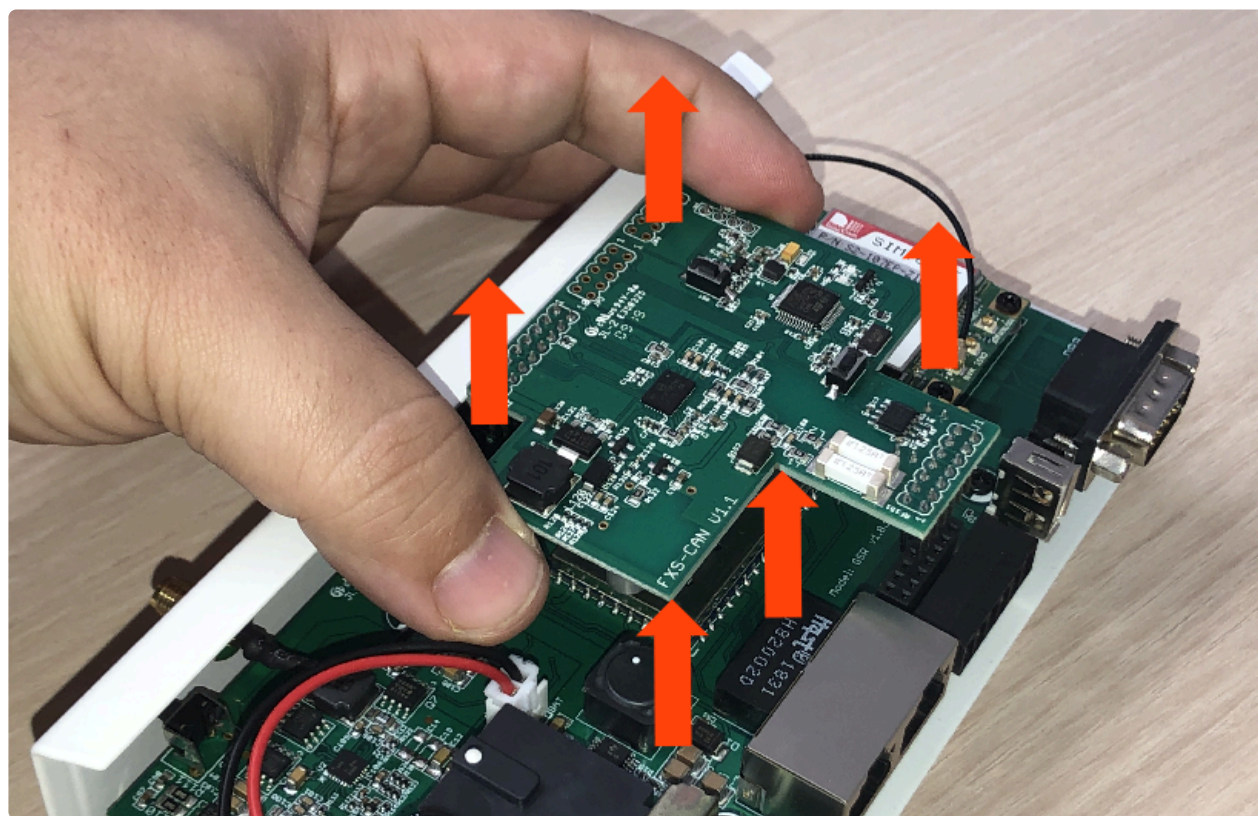
1. Remove the 6 screws from the base and sides



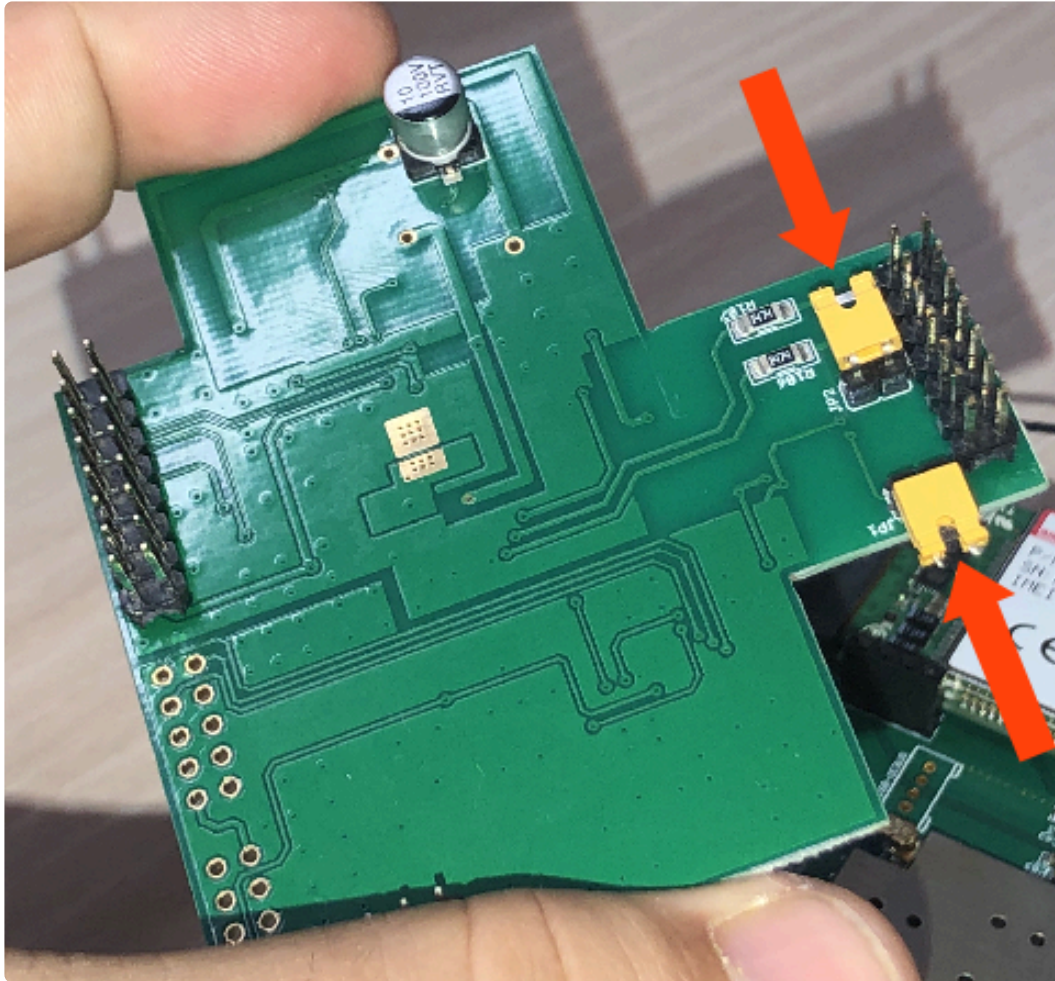
2. Slide the **cover** until it is removed from the **GSR**



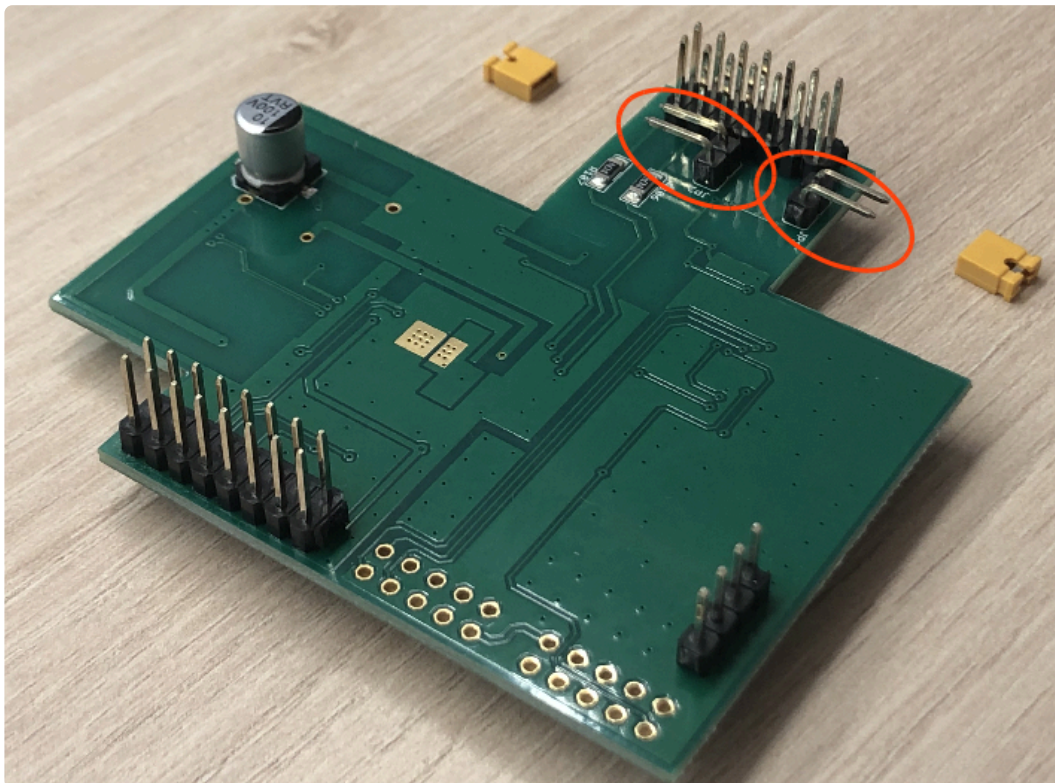
3. Remove the **FXS-CAN** board pulling gently and equally on both sides



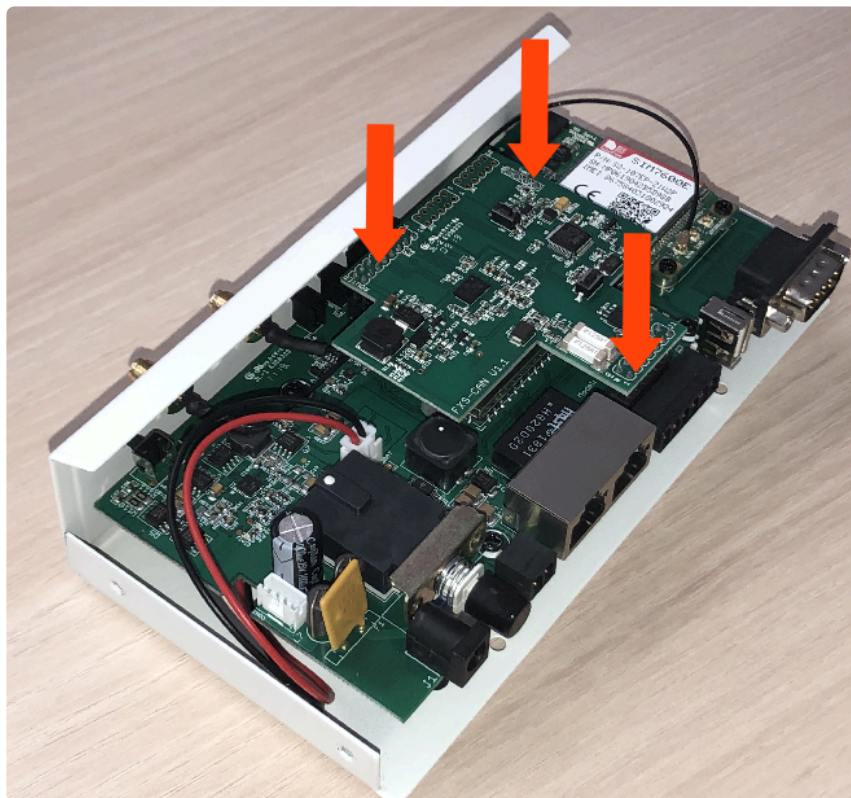
4. Turn around and check that the **jumper**s are on



5. Remove the **jumpers** to deactivate the resistors



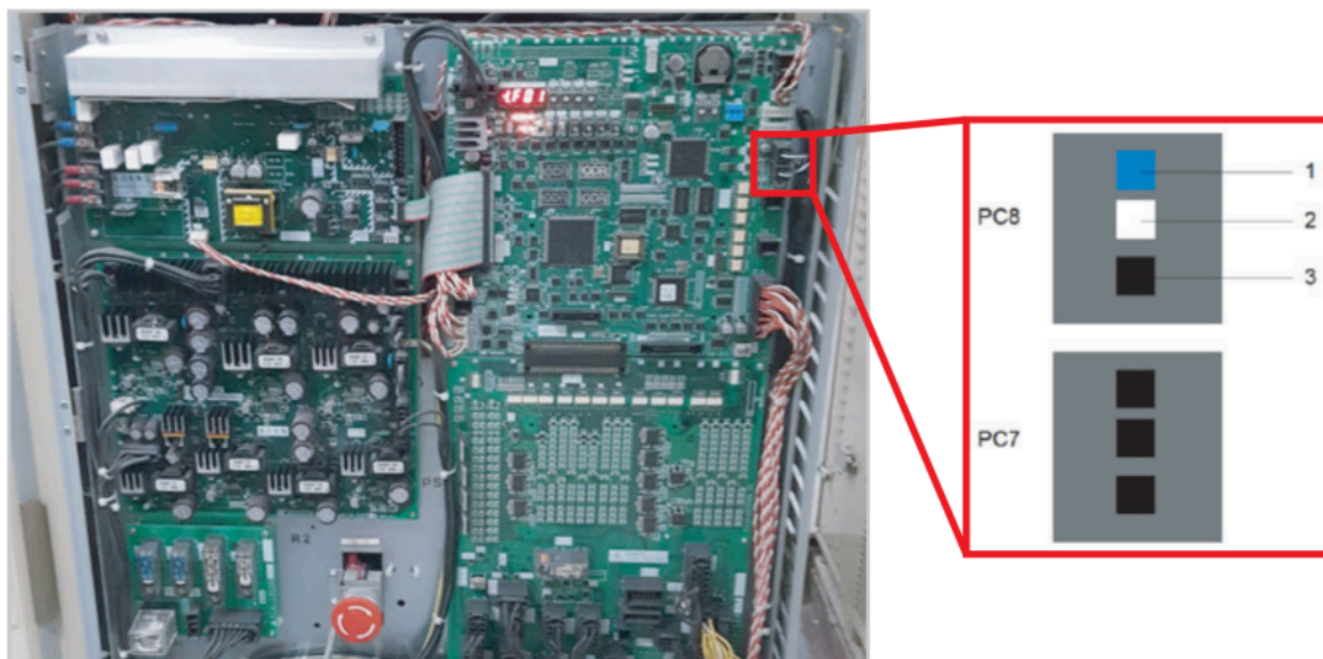
6. Place the **FXS-CAN** gently, confirming that all pins are aligned correctly



7. Reverse the steps to re-assemble the **GSR**

2. Connection

1. Locate connector **PC8** and connect as described:

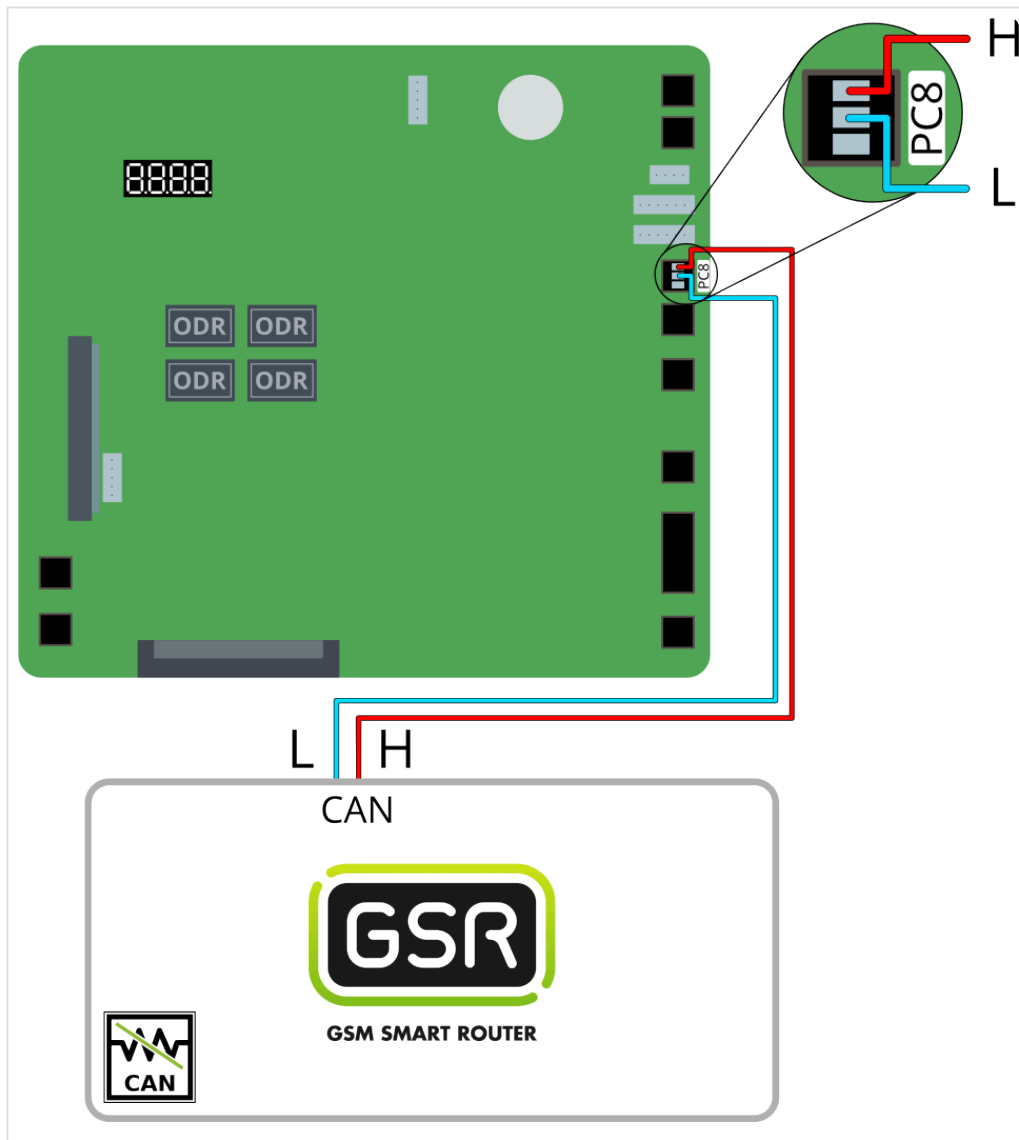


2. Locate the **CAN** connector on GSR.



3. Make the connection.

Controller	GSR
1	H
2	L
3	-



* Follow the next steps in [Platform use](#)

2.1.7. Orona Arca 2

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

- 2x wires for CAN connection

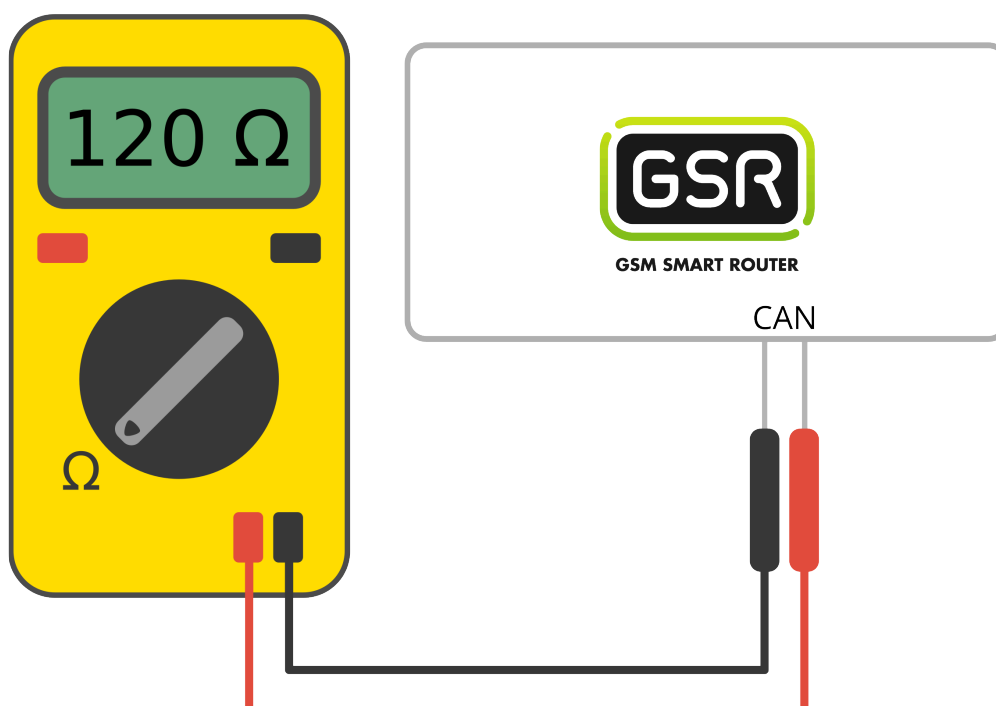


ORO Arca 2 Toolkit

* Check if your GSR has a sticker indicating that the end of bus resistors are deactivated. If yes, go to the step **2. Connection**.



! If your GSR does not have the sticker, check the resistance value with a tester. When the resistors are activated, the value is 120Ω. The following steps describes how to deactivate the resistors before going to step **2. Connection**.



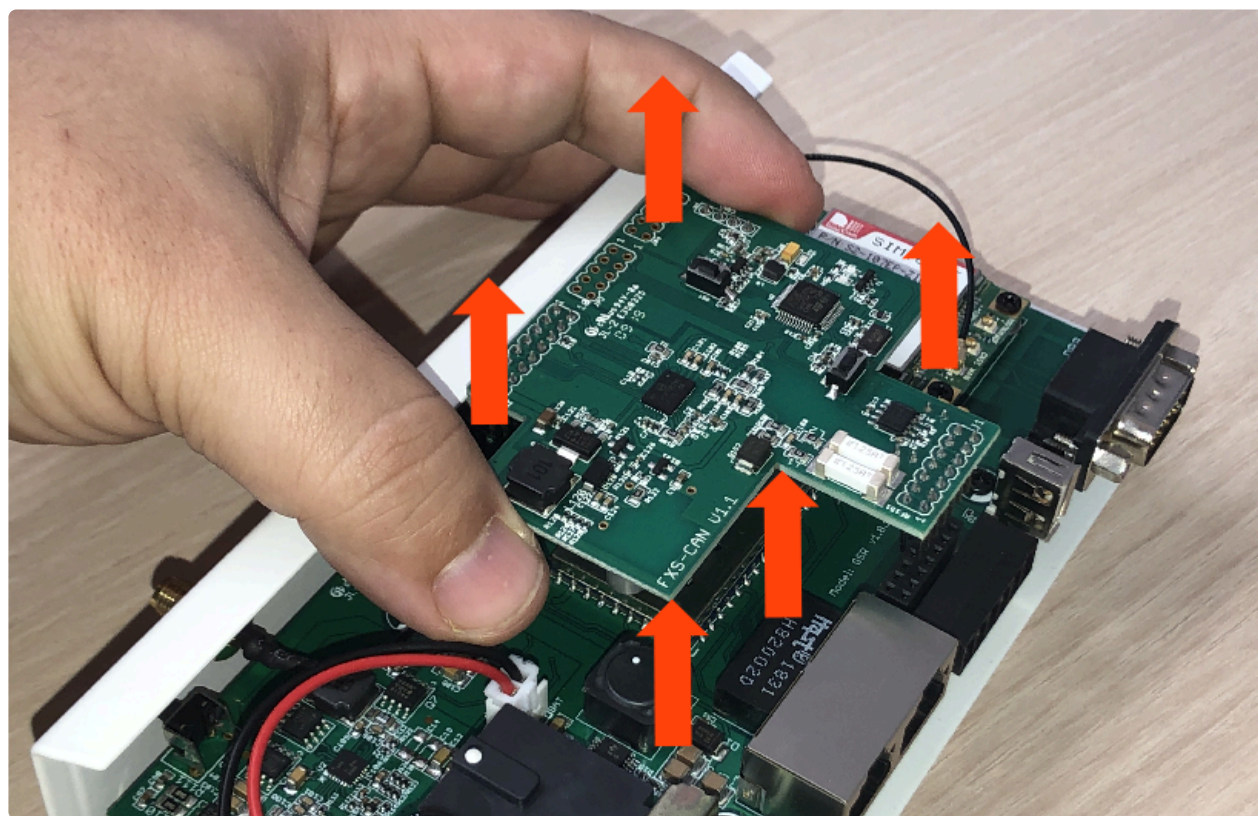
1. Remove the 6 screws from the base and sides



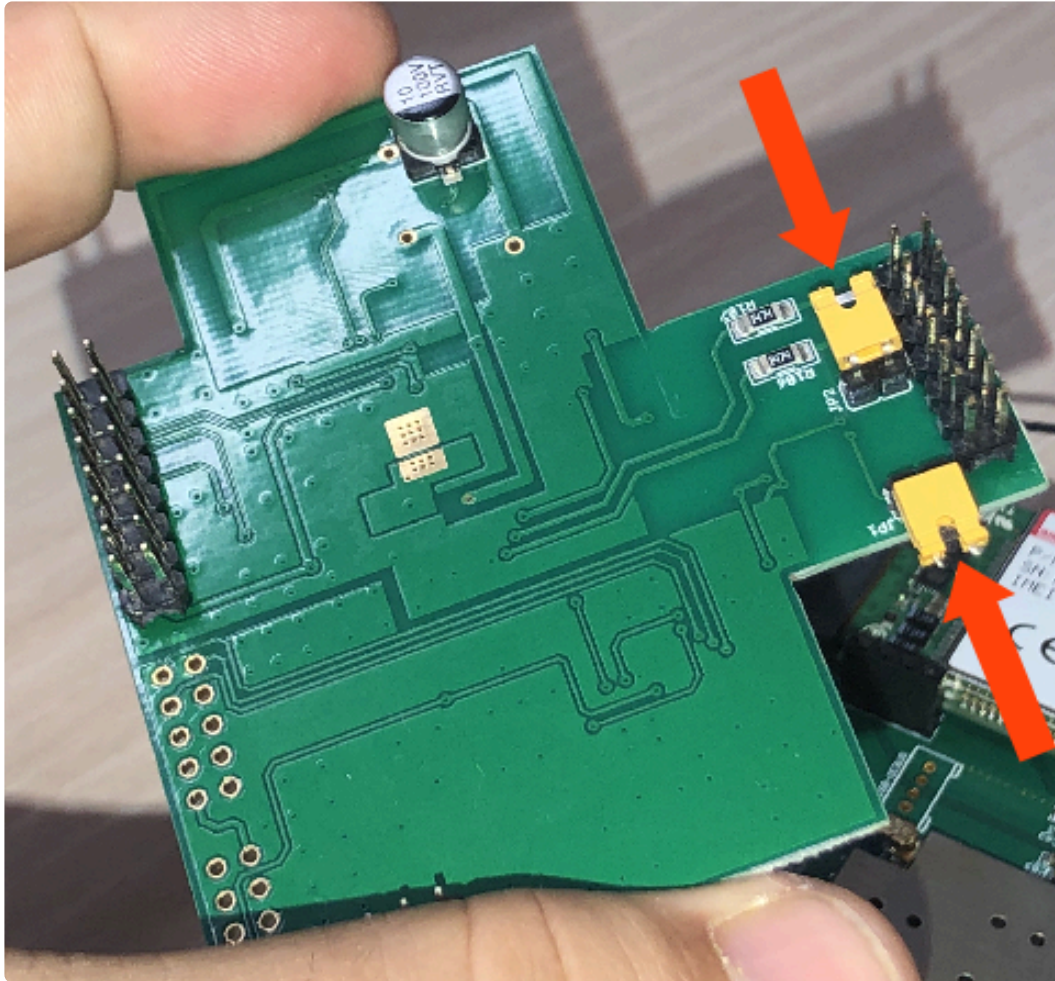
2. Slide the **cover** until it is removed from the **GSR**



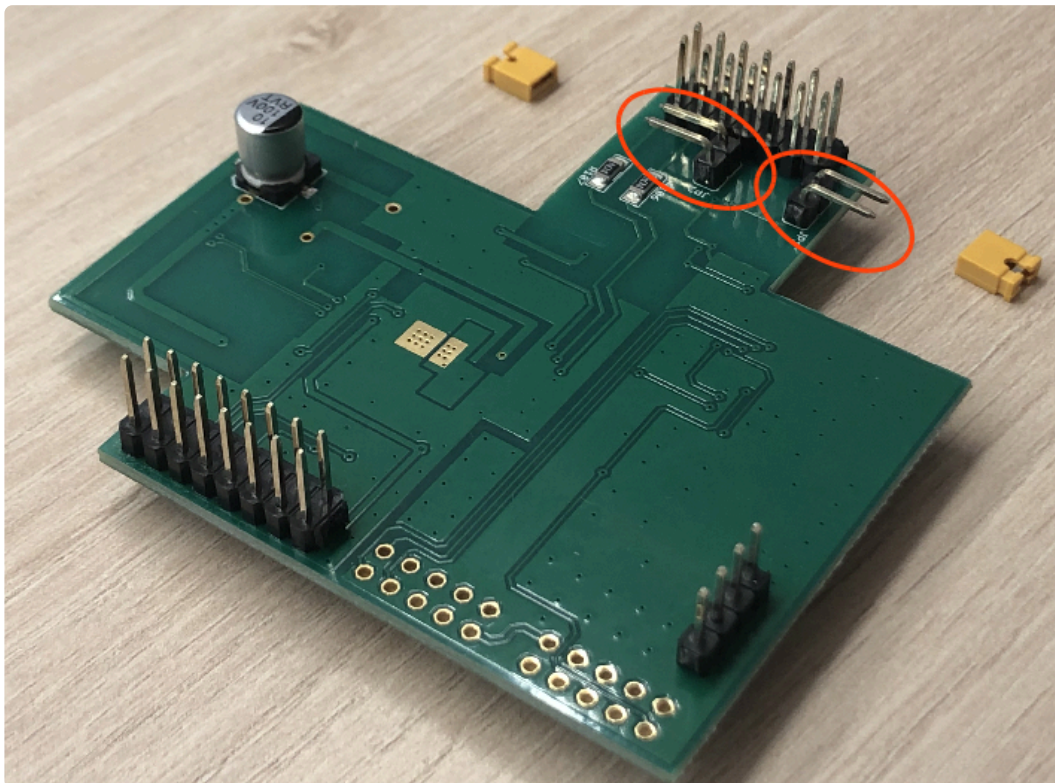
3. Remove the **FXS-CAN** board pulling gently and equally on both sides



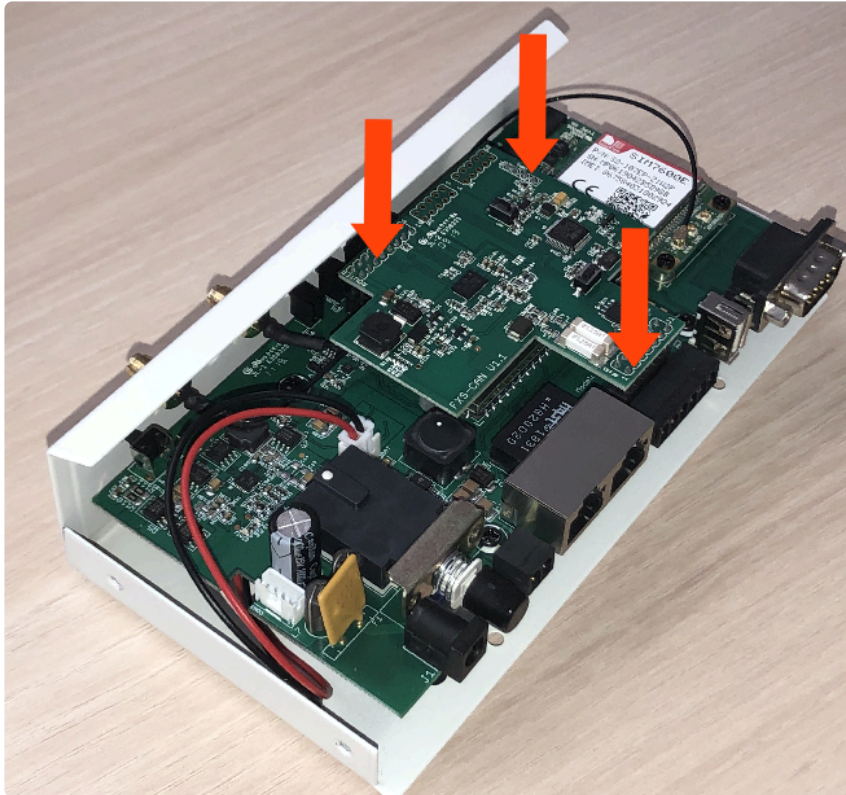
4. Turn around and check that the **jumpers** are on



5. Remove the **jumpers** to deactivate the resistors



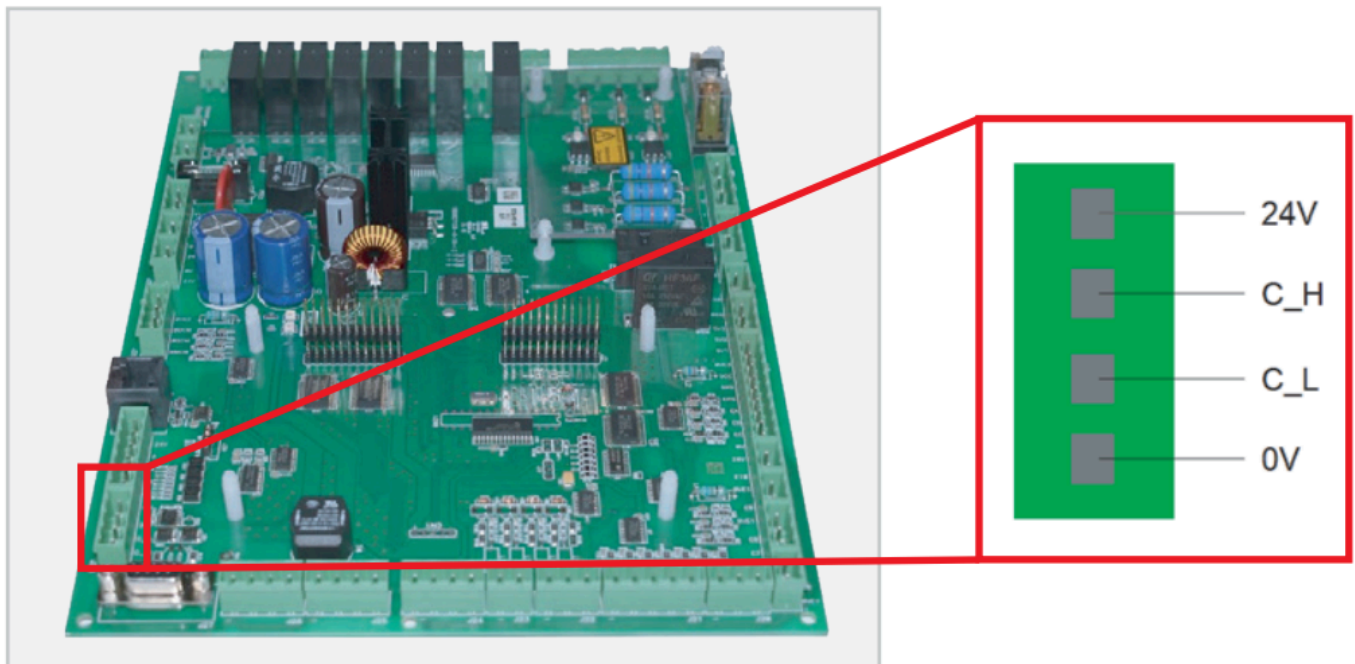
6. Place the **FXS-CAN** gently, confirming that all pins are aligned correctly



7. Reverse the steps to re-assemble the **GSR**

2. Connection

1. Locate connector **J28** and connect as described:

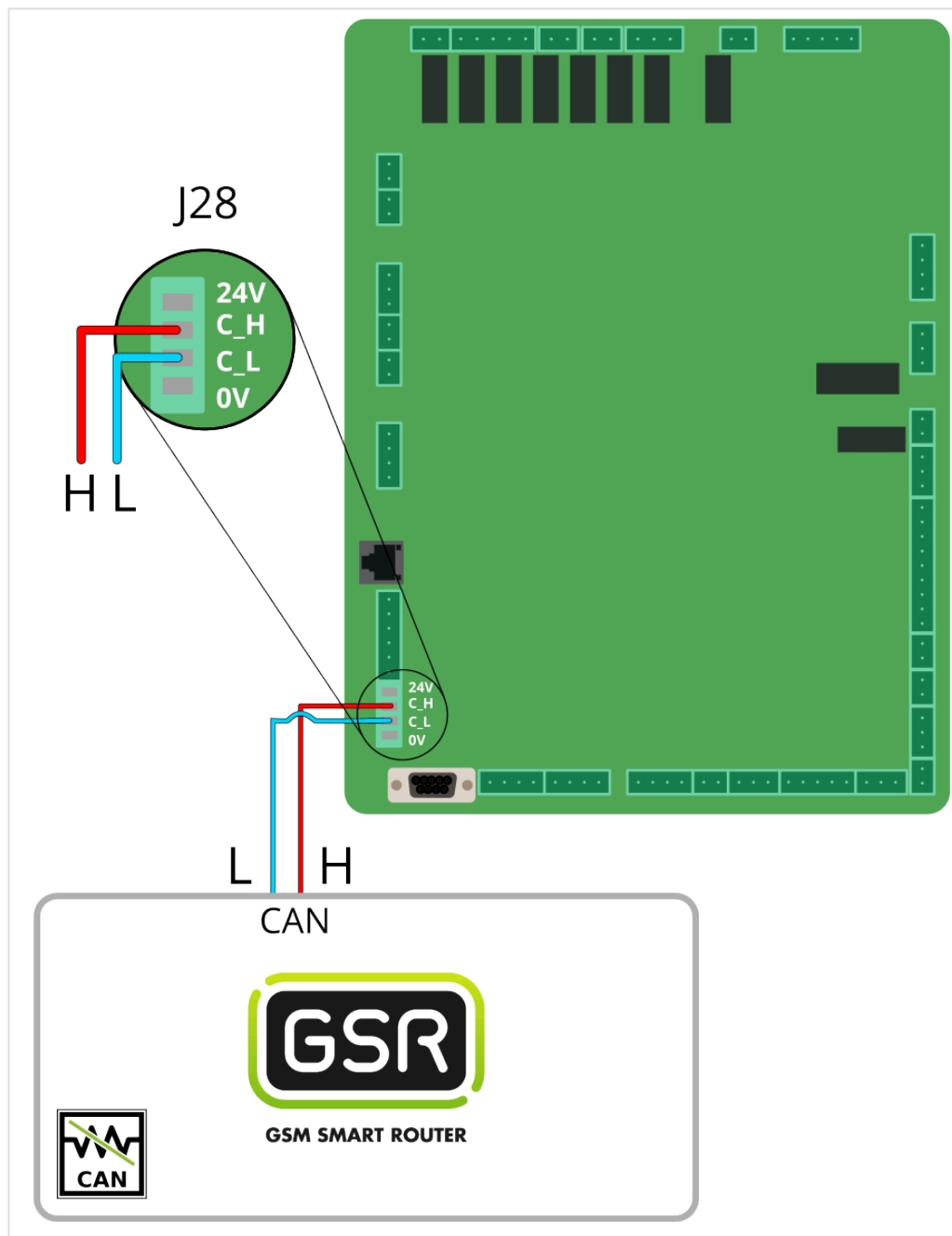


2. Locate the **CAN** connector on GSR.



3. Make the connection.

Controller	GSR CAN
24V	-
C_H	H
C_L	L
0V	-



 [Follow the next steps in Platform use](#)

2.1.8. OTIS

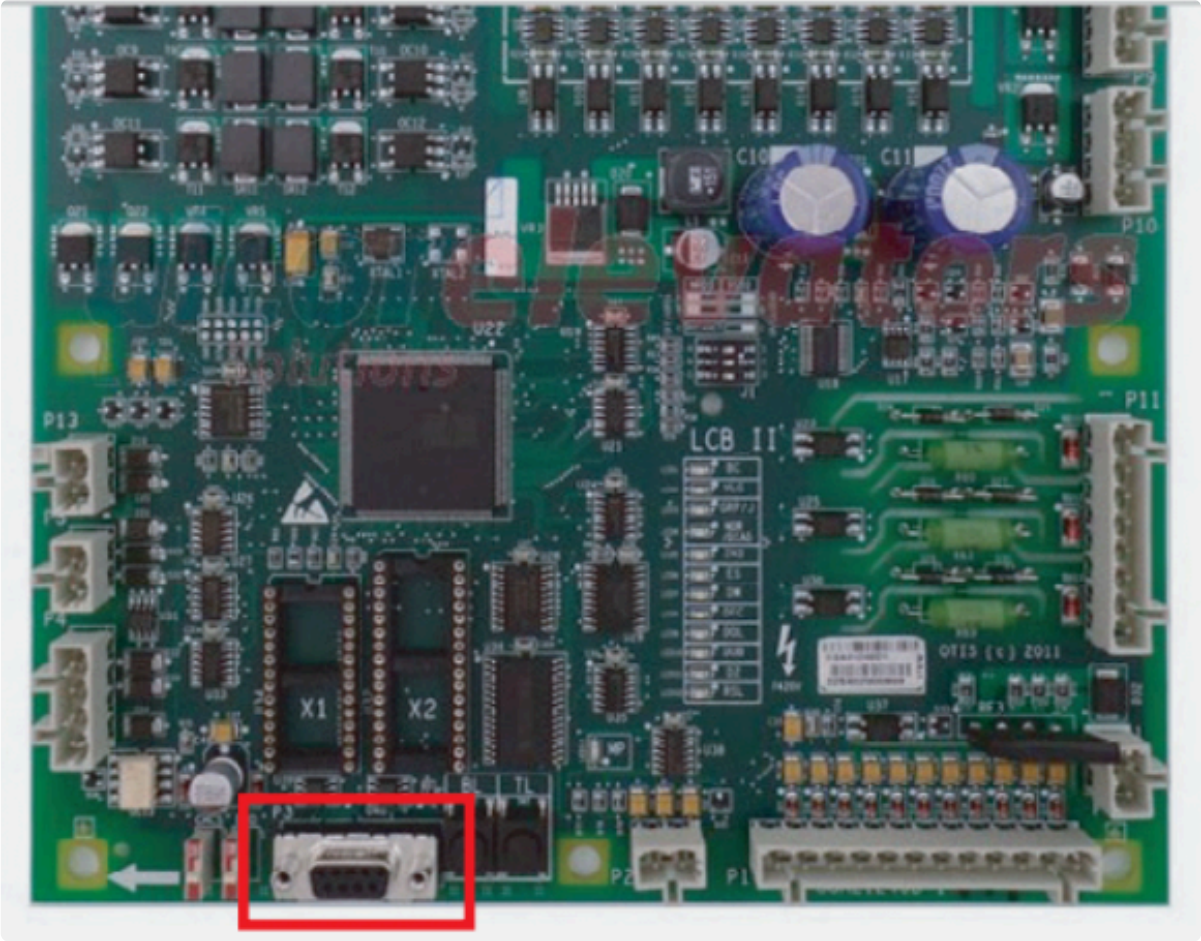
✿ Before starting, follow the [Installation and Start-up guide](#)

1. Connections available for GSR

RS-232 option 1	RS-232 option 2	USB option
		
OTI Toolkit Wires RS232	OTI Toolkit RS232	OTI Toolkit Wires USB

2. Connection to controller

1. Locate the **SVT** connector (OTIS 2000) or the **Service Tool** connector (OTIS Gen2) and wire it according to the cable's label. Connect to the RS232-RS422/RS485 or USB-RS422/RS485 converter.

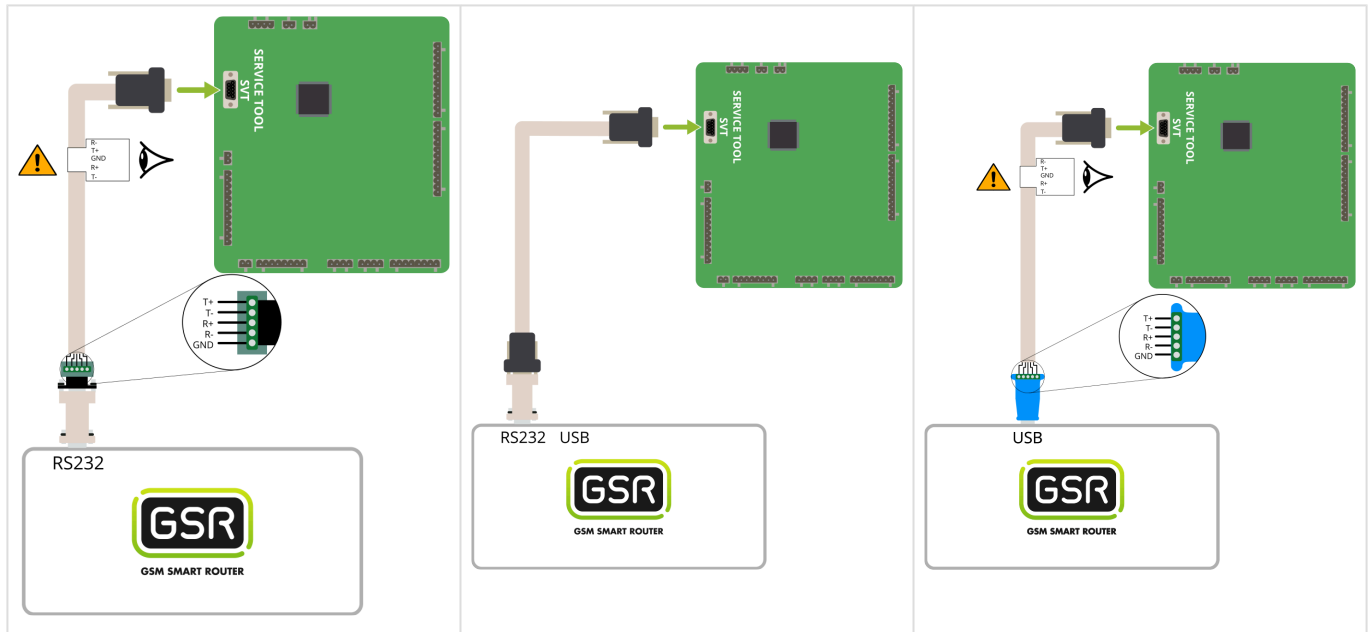


2. According to the type of connection in GSR use one of the ports below

Connection by RS-232	Connection by USB

3. Make the connection.

RS-232 option 1	RS-232 option 2	USB option
-----------------	-----------------	------------



 [Follow the next steps in Platform use](#)

2.1.9. Rekoba EKM 66 / EKM 68

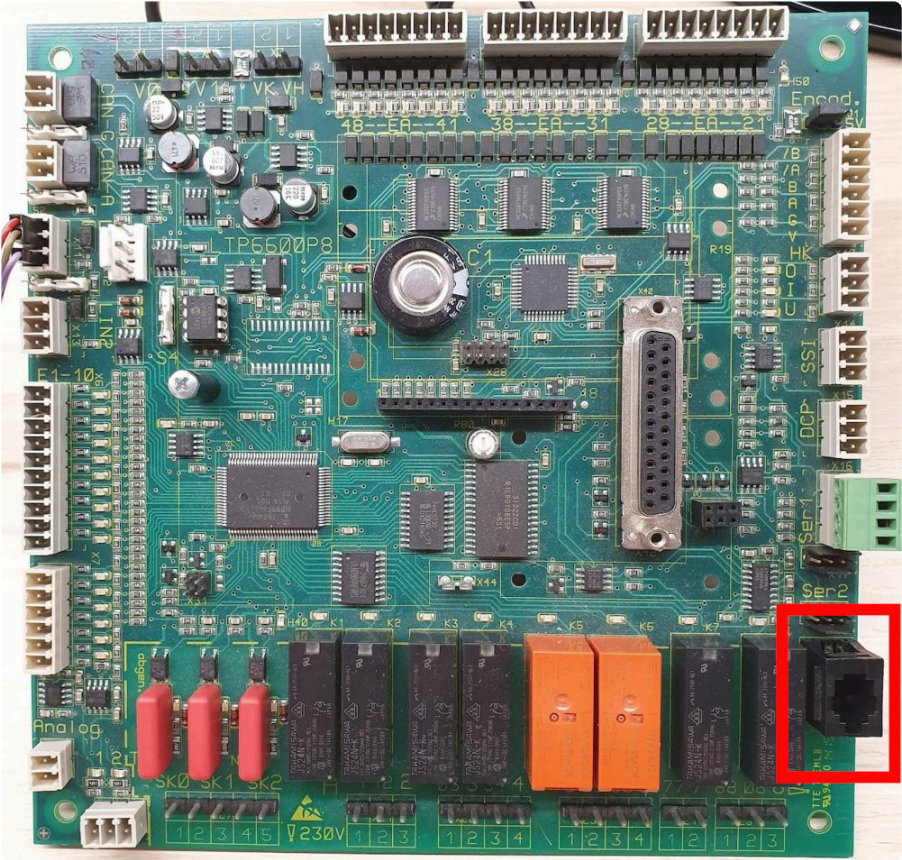
✿ Before starting, follow the [Installation and Start-up guide](#)

1. Connections available for GSR

RS232 option	USB option
	
REK EKM66/68 Toolkit RS232	REK EKM66/68 Toolkit USB

2. Connection to controller

1. Locate the **Term** connector and connect it as described.

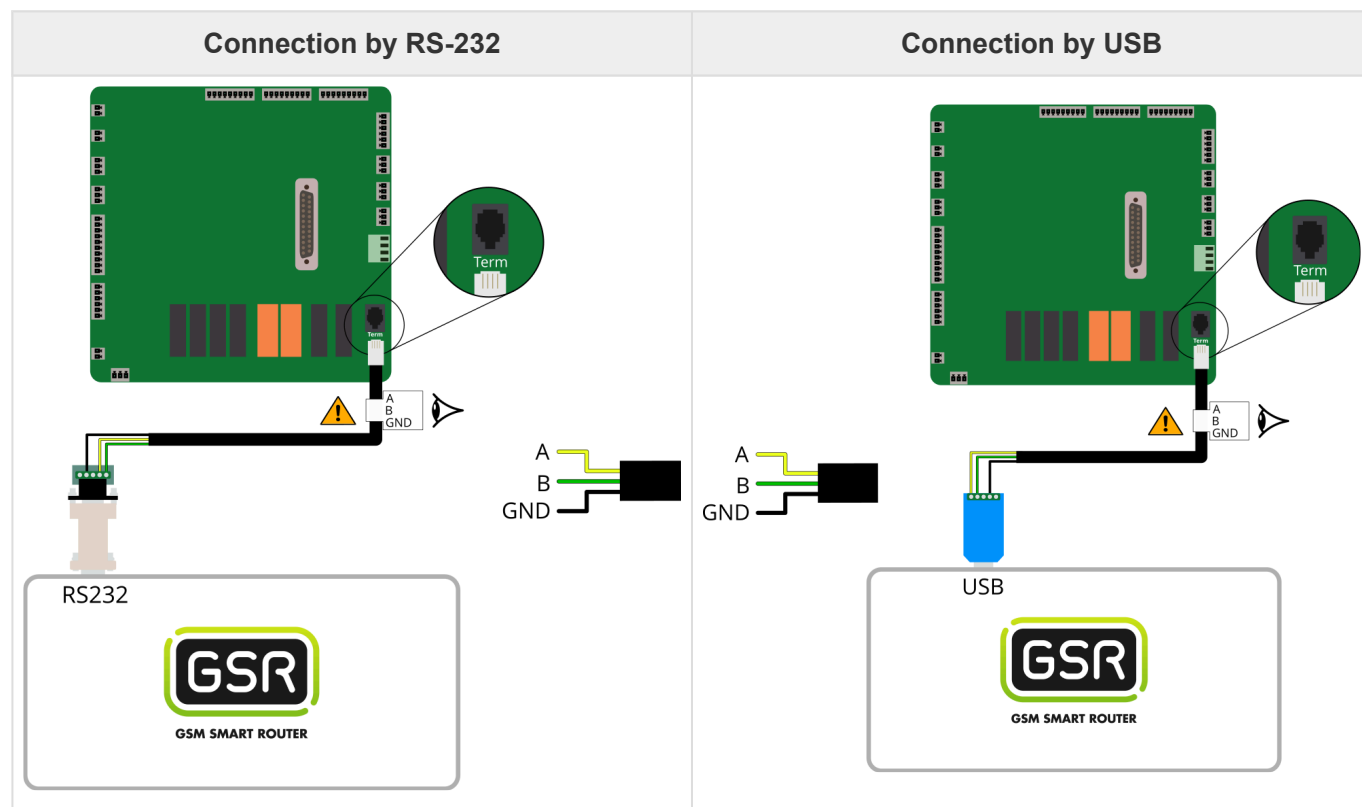


2. According to the type of connection in GSR use one of the ports below

Connection by RS-232	Connection by USB

3. Make the connection.

Converter	Wire
A	Yellow
B	Green
GND	Black



 [Follow the next steps in Platform use](#)

2.1.10. Schindler 3300

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

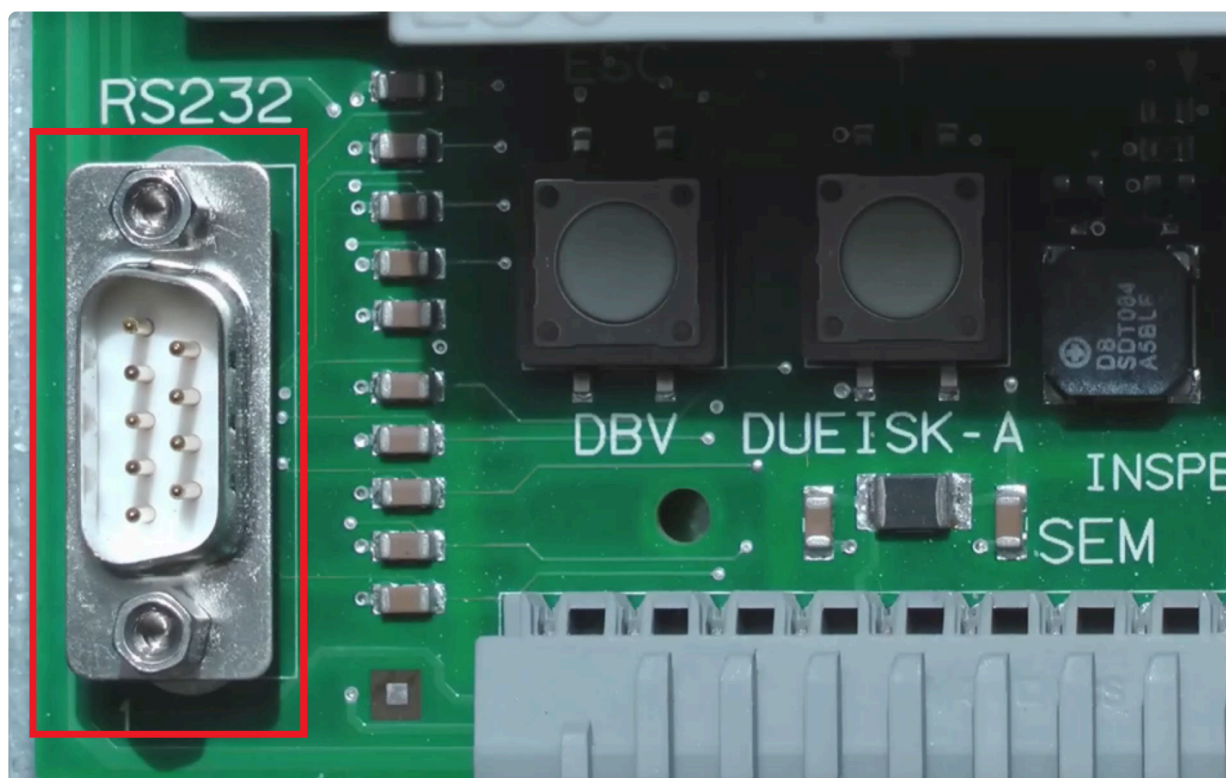
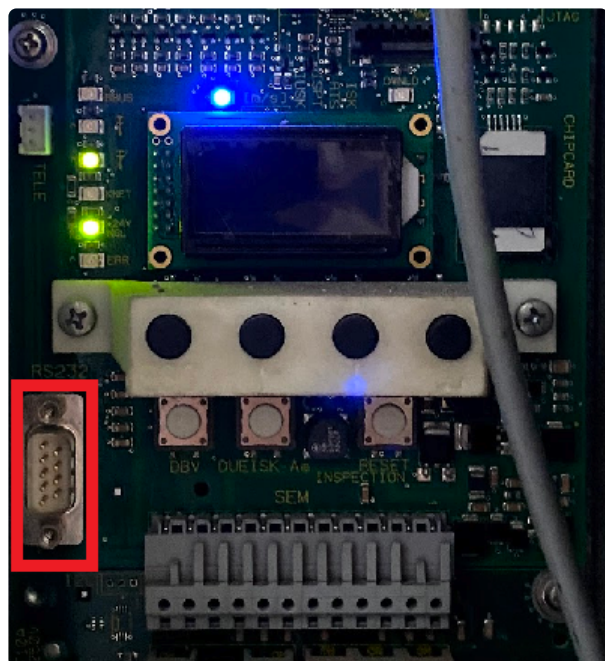
- 0-modem RS-232 cross cable



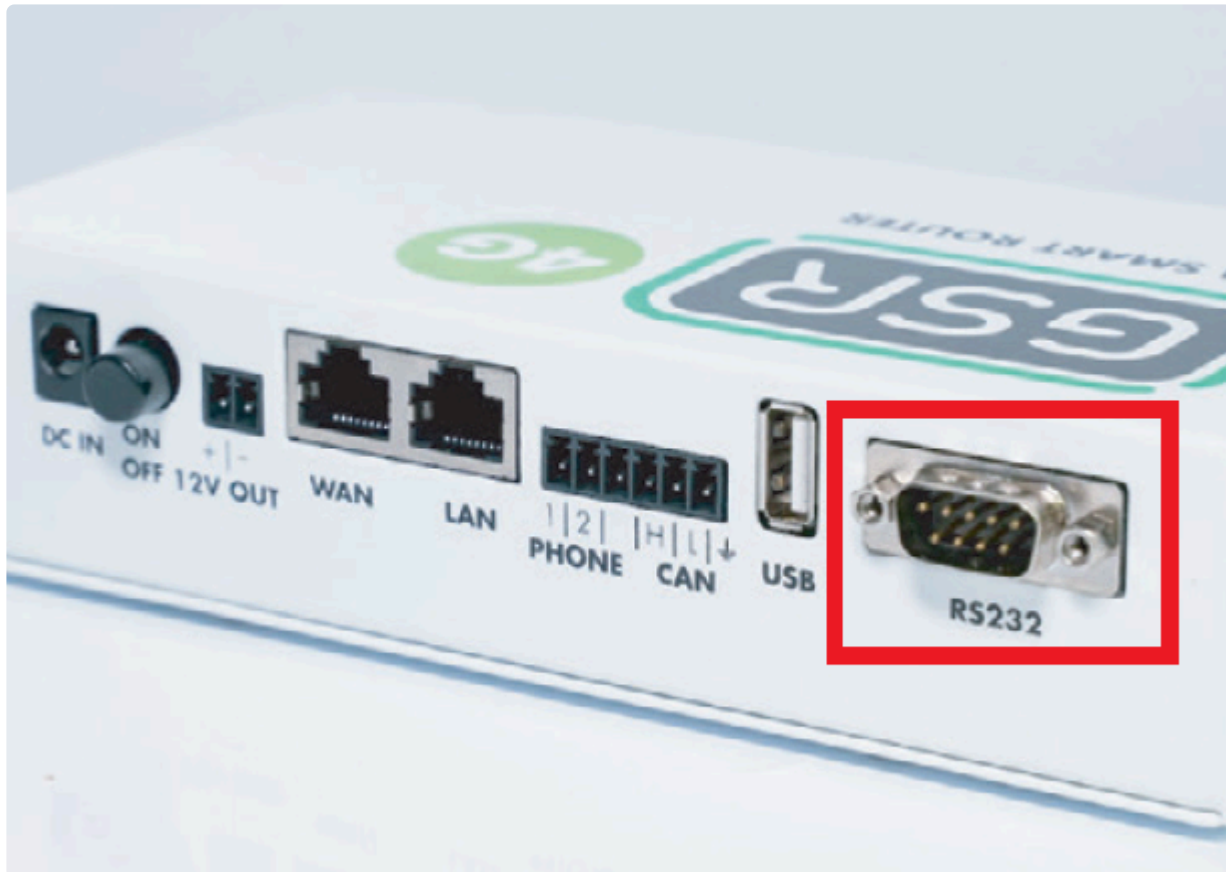
SCH 3300 Toolkit

2. Connection

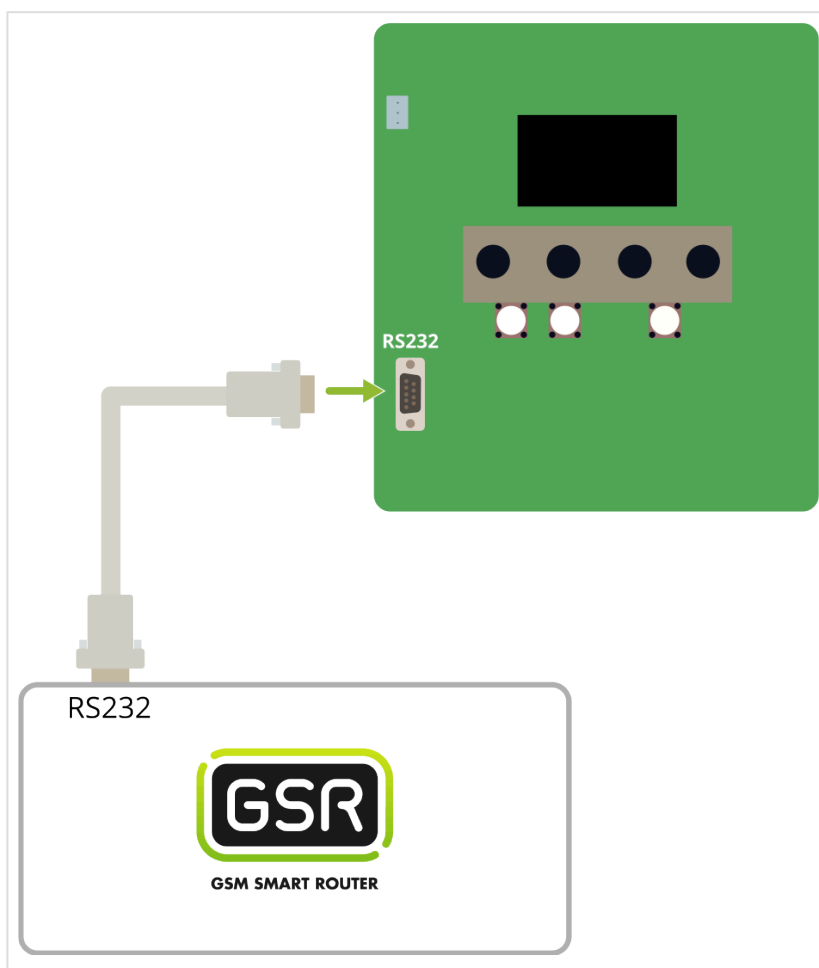
1. Locate the connector **RS232**.



2. Connect the 0-modem RS-232 cable to connector **RS232** and to GSR's **RS232** port.



3. Make the connection.





[Follow the next steps in **Platform use**](#)

2.1.11. Step AS380

* Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

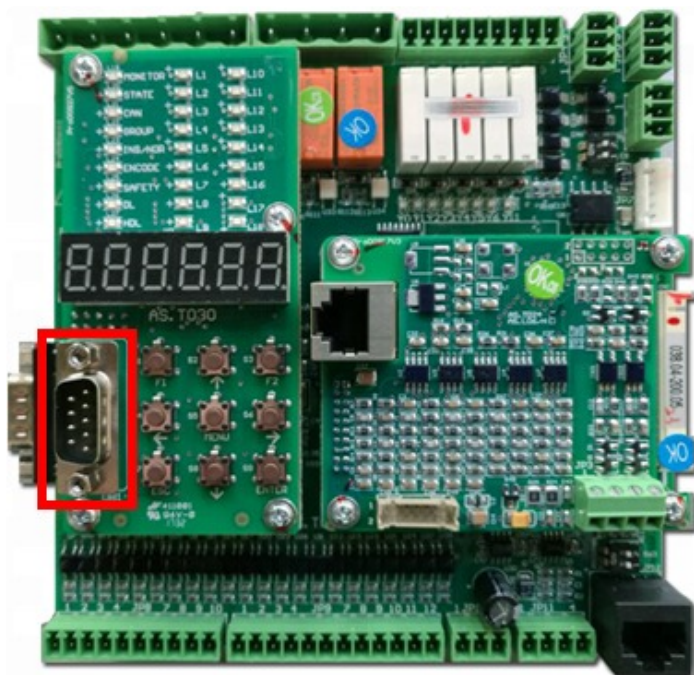
- 0-modem RS-232 cable



STE AS380 Toolkit

2. Connection

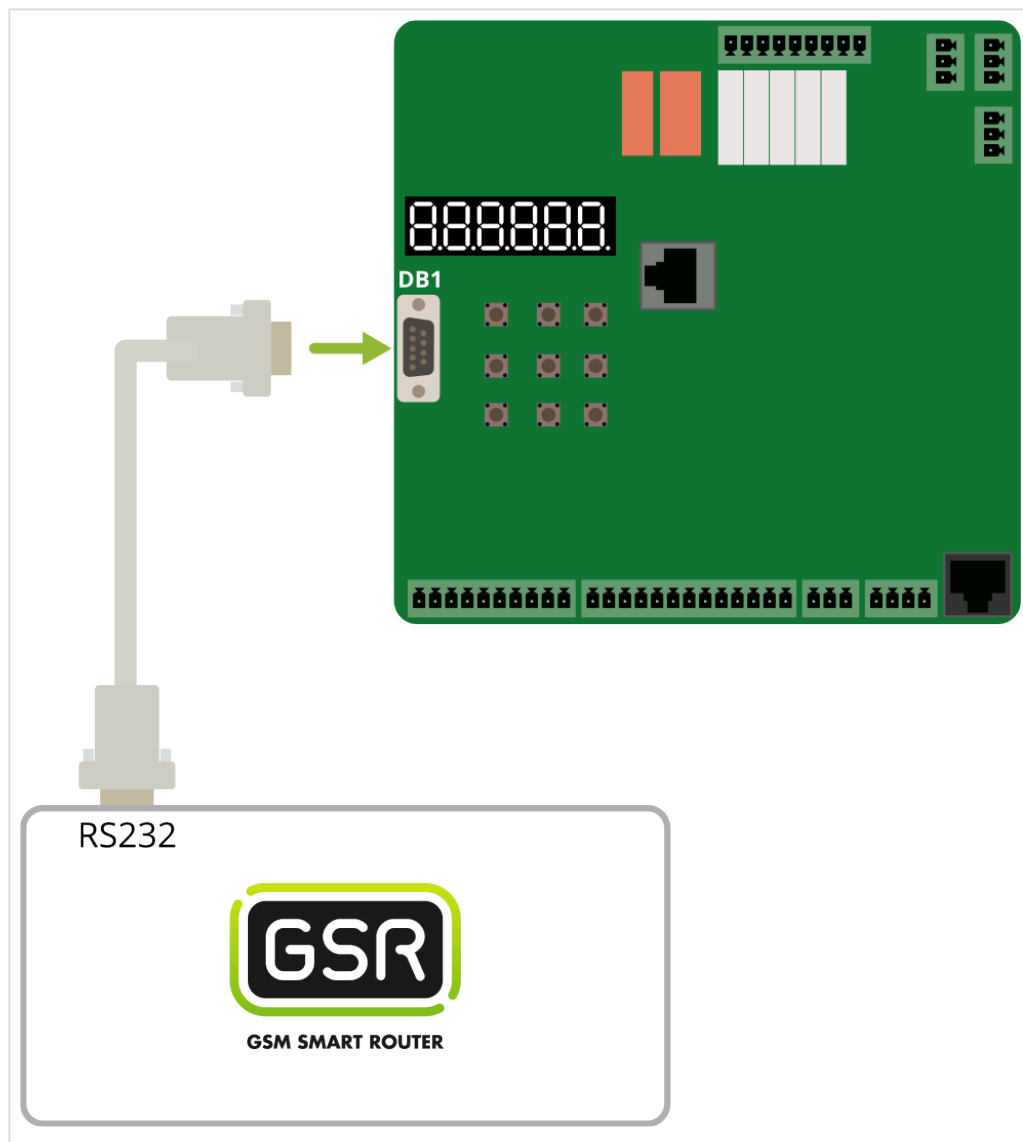
1. Locate connector **DB1**



2. Locate **RS232** connectors on **GSR**.



3. Connect 0-modem RS-232 cable to **DB1** (controller side) and **RS232** (GSR side).



* [Follow the next steps in Platform use](#)

2.1.12. SJEC

✿ Before starting, follow the [Installation and Start-up guide](#)

1. Material required

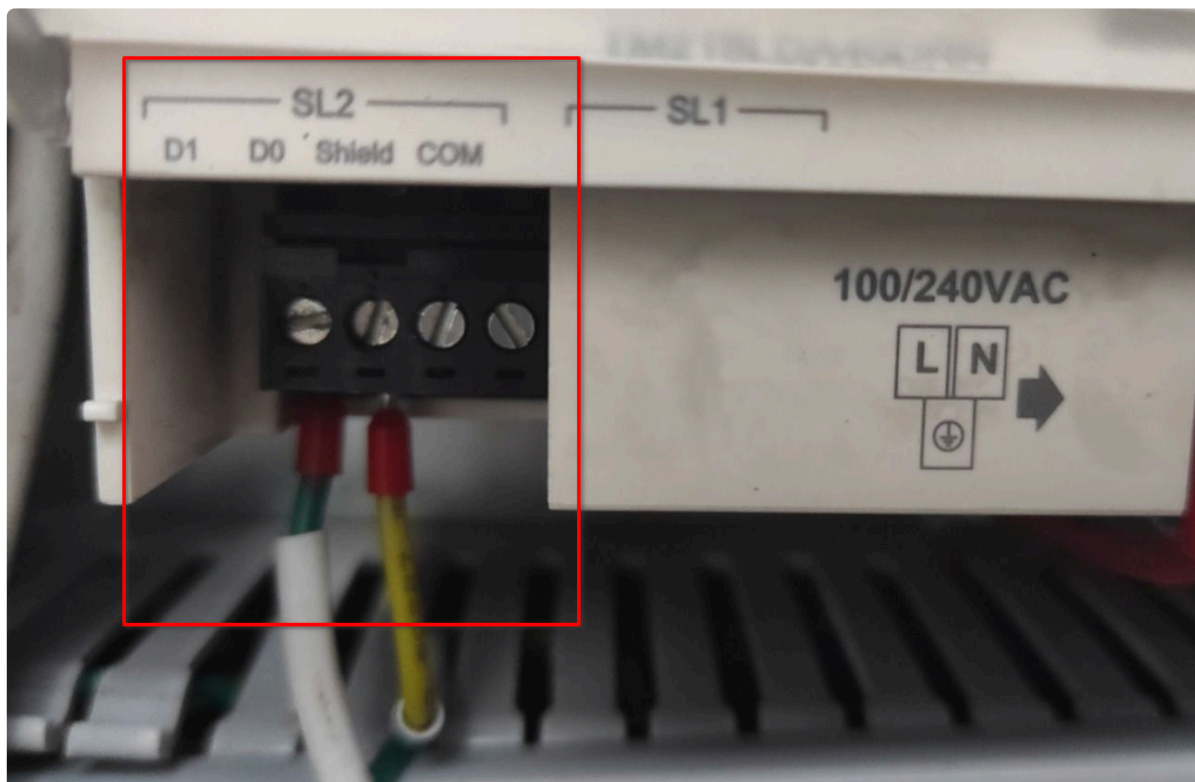
- USB to RS422/485 adapter, USB HUB, 3x USB RELAY v1, pair of CAN wires.



SJEC Toolkit

2. Connection to control system

- Locate connector SL2



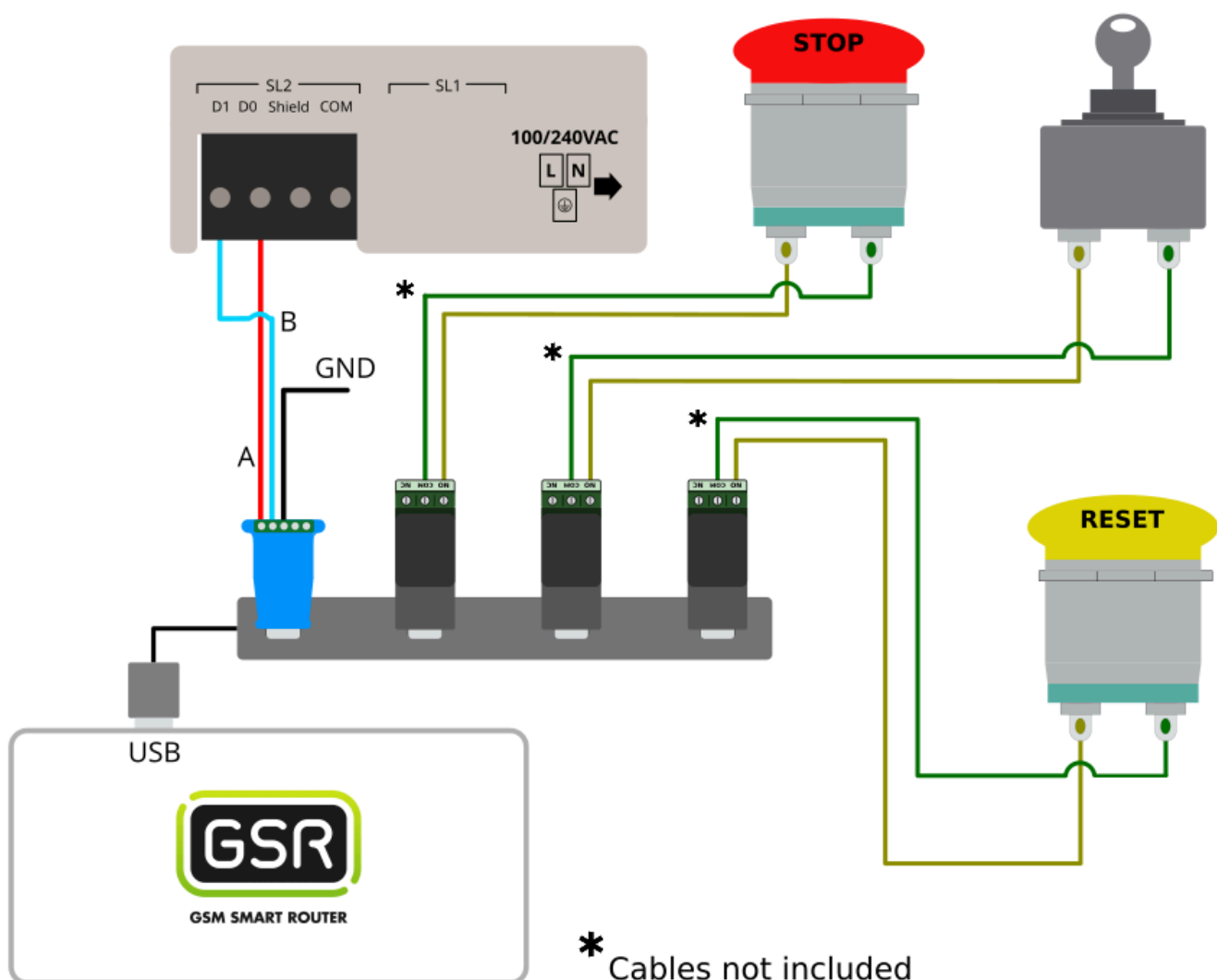
- Make the following connections to the USB to RS422/RS485 adapter

SL2 connector	USB to RS422/RS485 adapter
D0	A
D1	B

- Connect terminal 5 of the USB to RS422/RS485 adapter to a PLC ground.
- Connect the NO contact of the first USB relay v1 to one of the terminals of the Stop button.
- Connect the NO contact of the second USB relay v1 to one of the terminals of the Key.
- Connect the NO contact of the third USB relay v1 to one of the terminals of the Reset button.
- Connect the USB to RS422/RS485 adapter and the three USB Relay v1 to the USB Hub.
- Locate the USB connector on the GSR and connect the USB HUB to that connector.



- Connect the USB to RS422/RS485 adapter to the USB port of the GSR.



 Follow steps in [Platform Configuration](#)

3. Configuration in SmartControl

Once we have the elements installed, we continue the process in the **SmartControl** platform.

1. First of all you must make sure that the reference (name) of the SJEC element follows one of the following options:

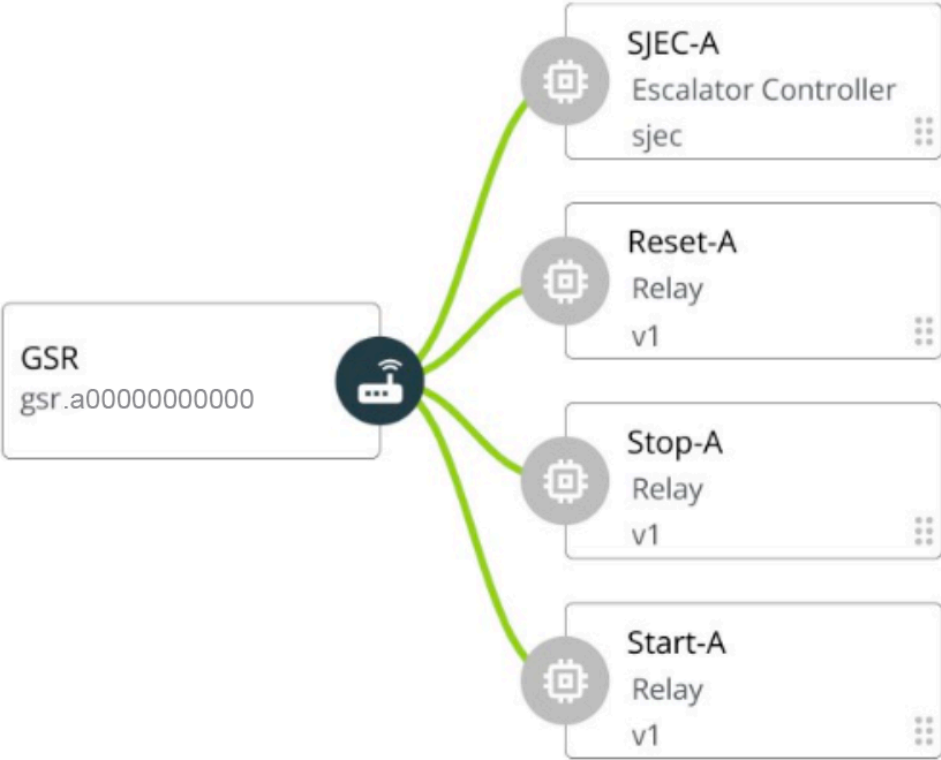
- TAG-NAME (example: ESCALERA IZQ-A)
- TAG (example: A)

In this way, each ladder has its own TAG, so if you want to have more than one ladder per GSR, the following ladders must have a unique TAG.



2. The customer must then individually link each relay element and follow the installation process. At the end each of the relays must have a name, which, unlike the ladder, is specific to the functionality of each relay, it must follow the NAME-TAG rule:

- Start-TAG for the start relay.
- Stop-TAG for the stop relay.
- Reset-TAG for the reset relay.



2.1.13. Sodimas qi touch

* Before starting, follow the [Installation and Start-up guide](#)

1. Required material

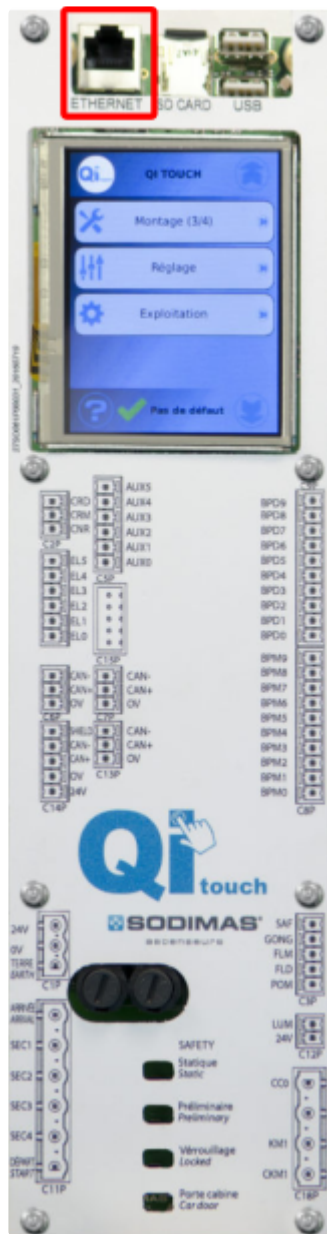
- RJ45 cable



Ethernet Cable

2. Controller connection

1. Locate connector ETHERNET



2. Locate RS232 connectors on GSR



3. Make the connection.



* [Follow the next steps in Platform use](#)

2.1.14. Thyssen CMC3

✱ Before starting, follow the [Installation and Start-up guide](#)

1. Required elements

- Thyssen CMC3 cable



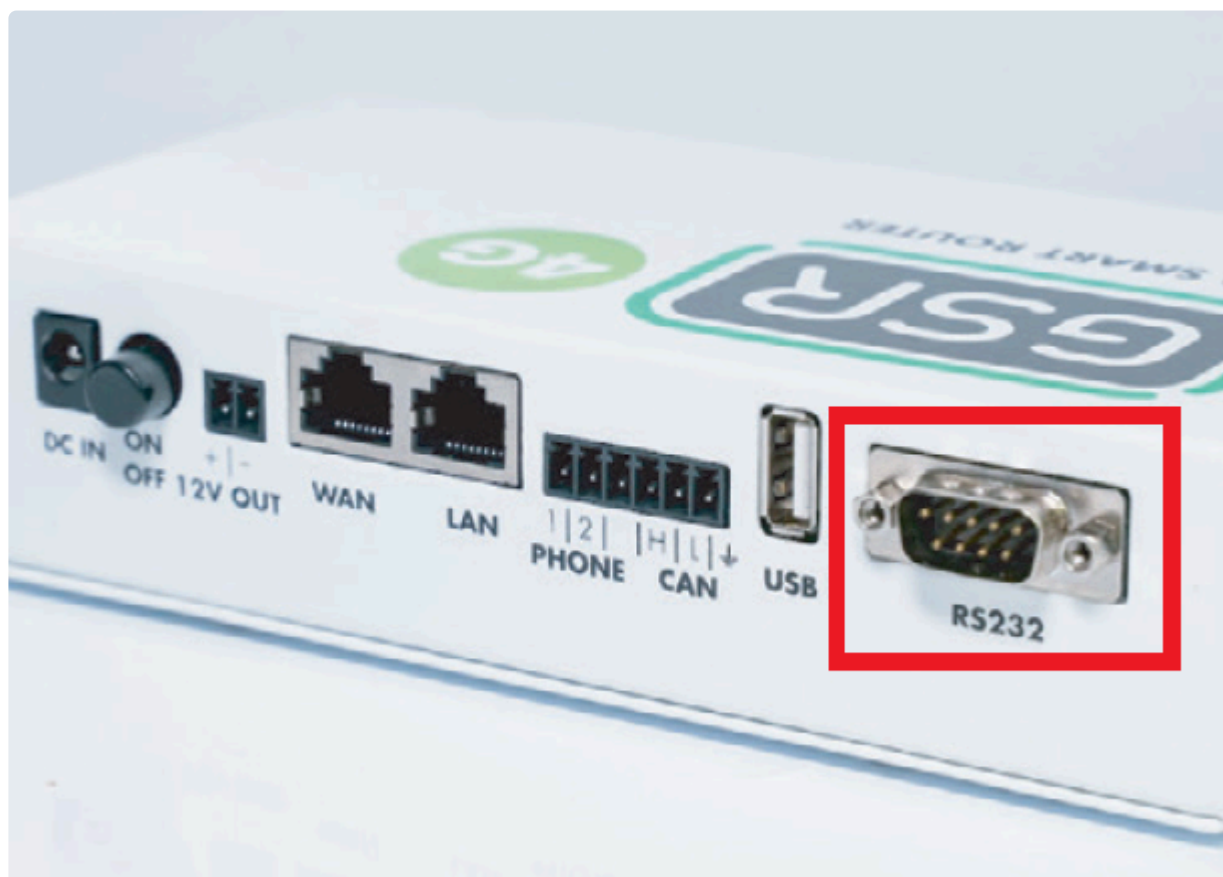
THY CMC3 Toolkit

2. Connection

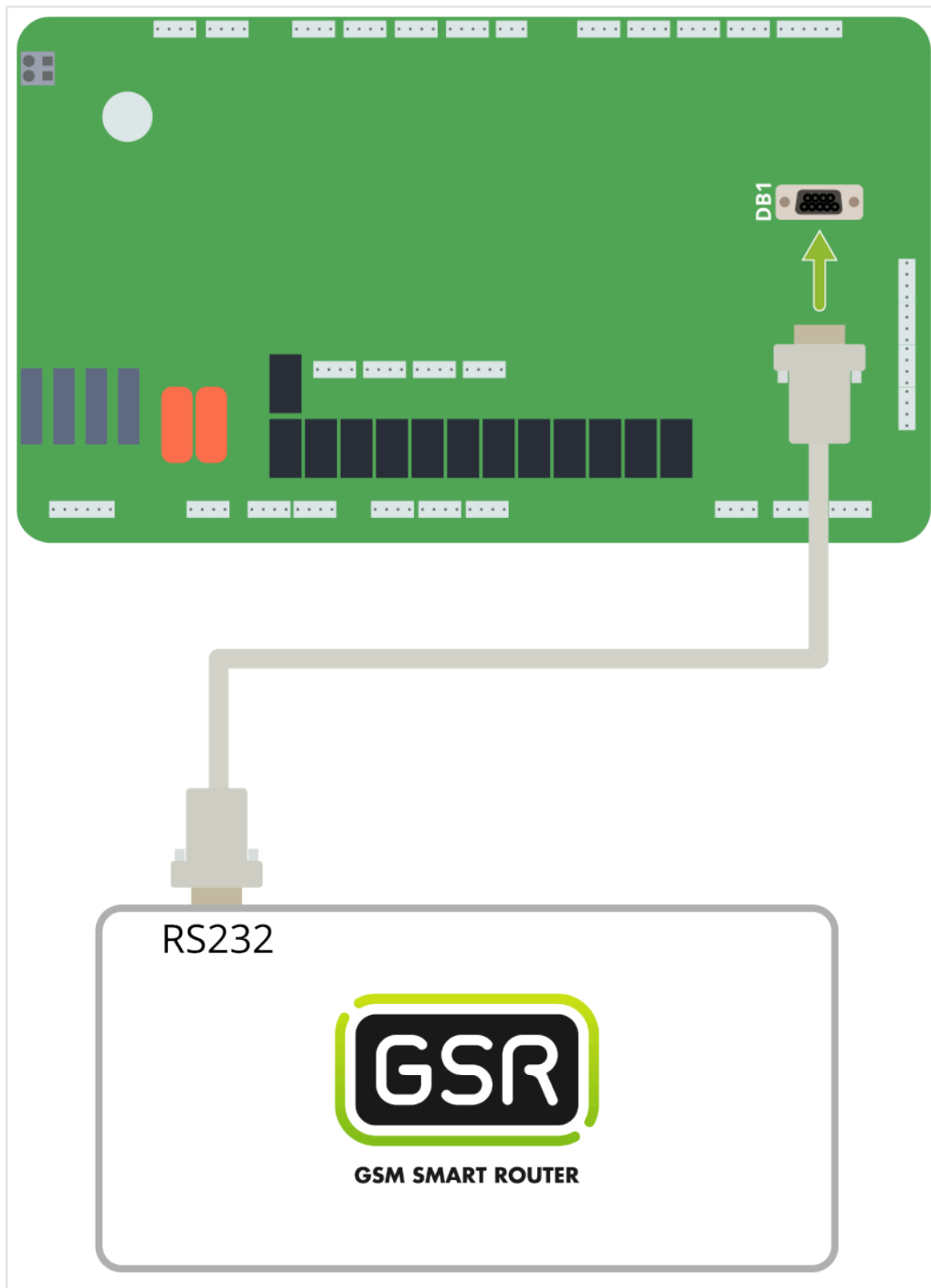
1. Locate the connector **RS232**.



2. Connect the Thyssen CMC3 cable to connector **RS232** and to GSR's **RS232** port.



3. Make the connection.



* [Follow the next steps in Platform use](#)

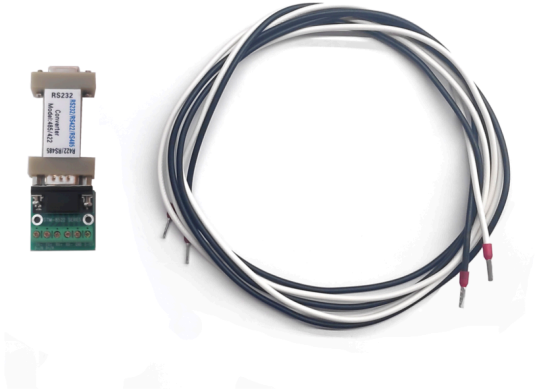
2.2. Variable Speed Drives

[Fuji Frenic LM2A](#)

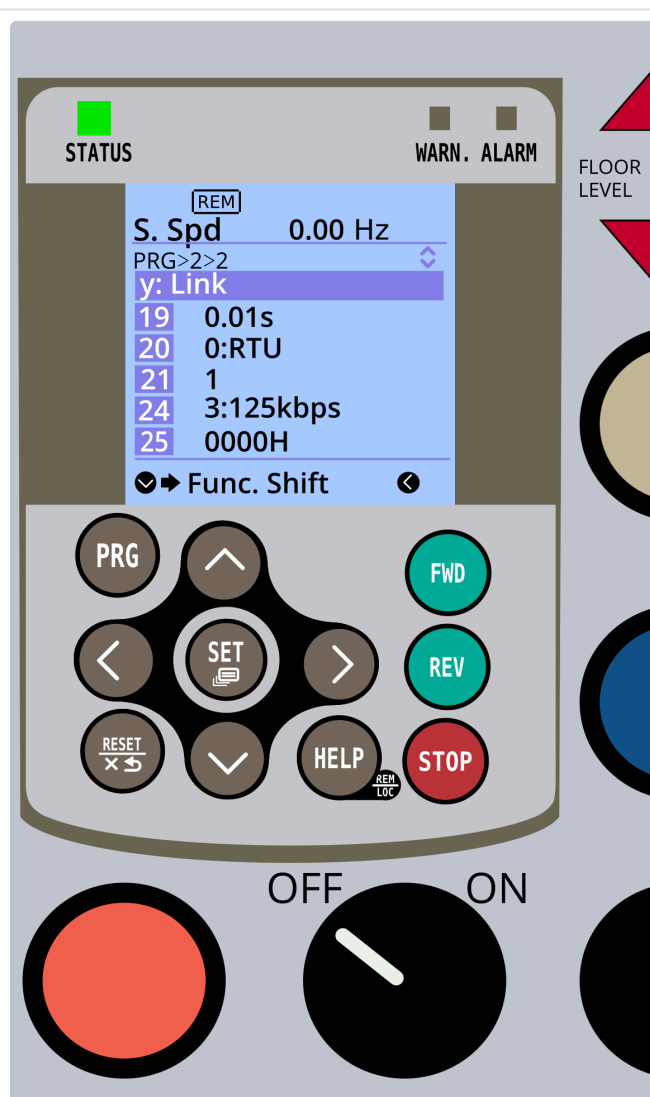
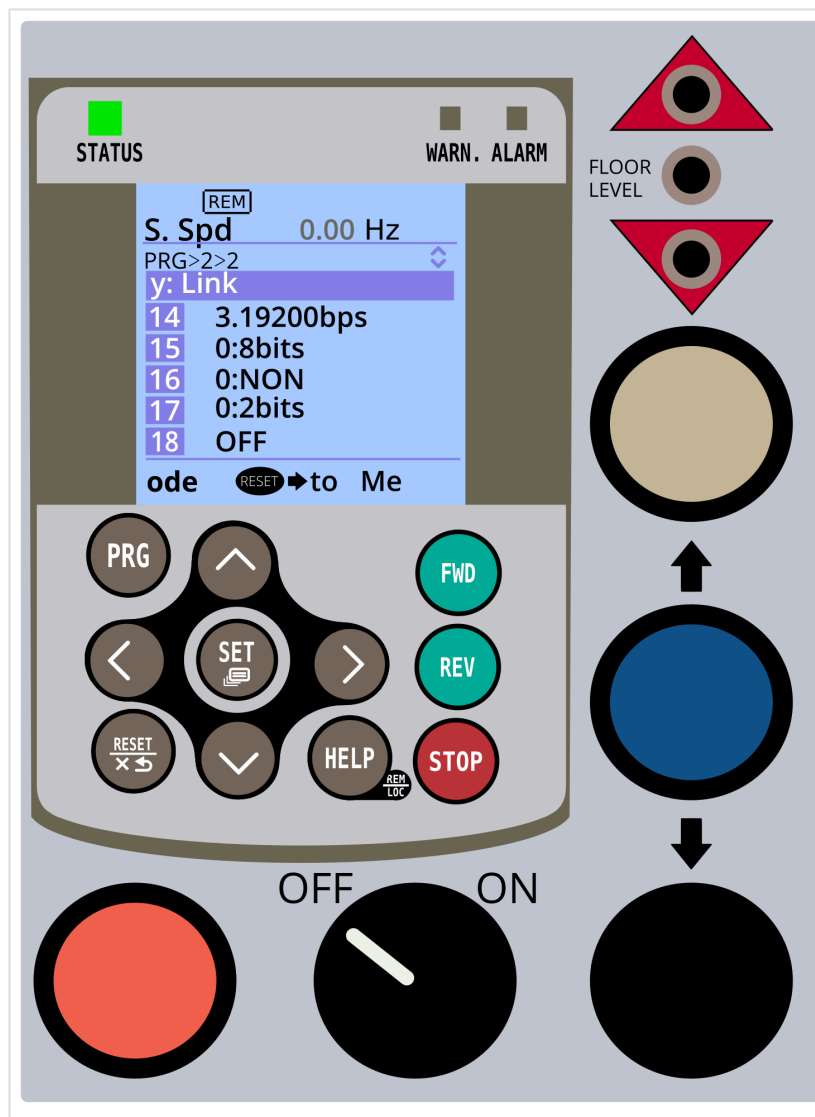
2.2.1. Fuji Frenic LM2A

✿ Before starting, follow the [Installation and Start-up guide](#)

1. Connections available for GSR

RS232 option	USB option
	
FUJ Frenic LM2A Toolkit RS232	FUJ Frenic LM2A Toolkit USB

1. Configure the Fuji Frenic LM2A Variator by assigning it the variables as shown in the pictures bellow:

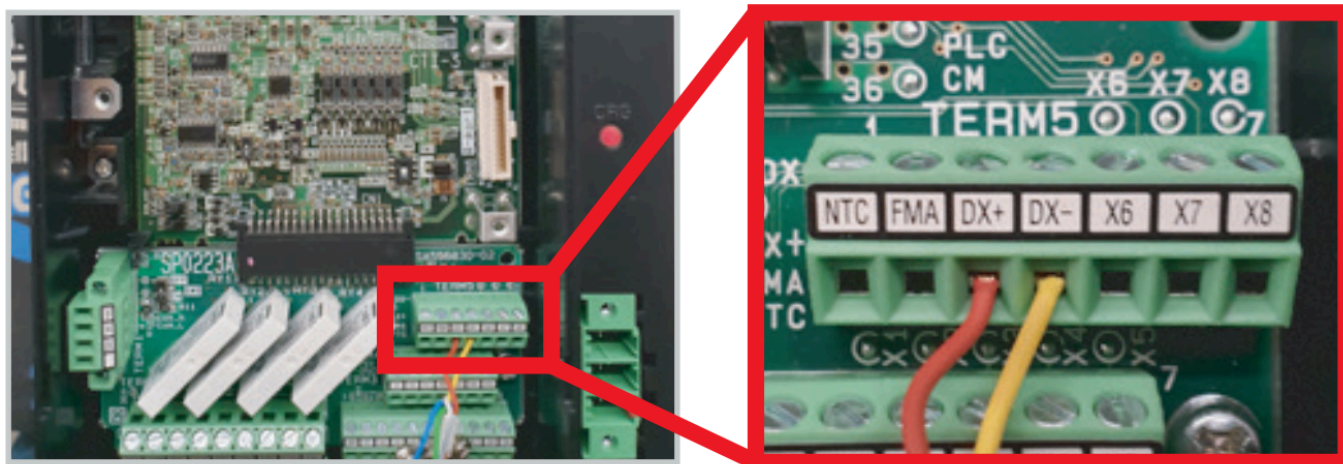


2. Connection to frequency inverter

2. Remove the control terminal and remove the indicated screw.



3. Remove the front cover, locate the **TERM5** connector and connect it as described.



4. According to the type of connection in GSR use one of the ports below

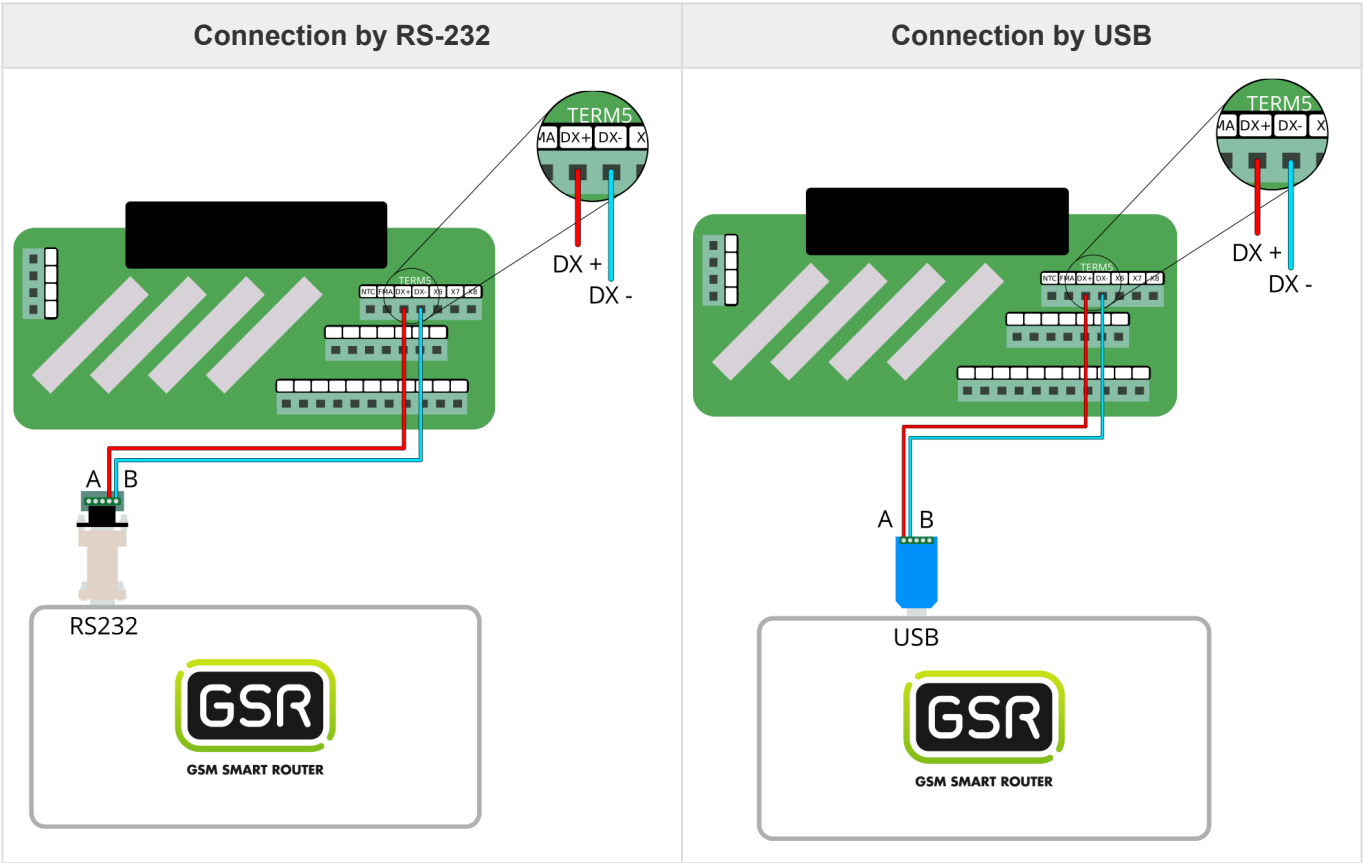
Connection by RS-232

Connection by USB



5. Make the connection

Plate VVVF	Converter 485
DX+	A
DX-	B



 [Follow the next steps in Platform use](#)

2.3. Webserver

1. Log in to the **Net4Machines Smart Control** platform.

URL: <https://manager.net4machines.com/>



Email

Contraseña

ACCEDER

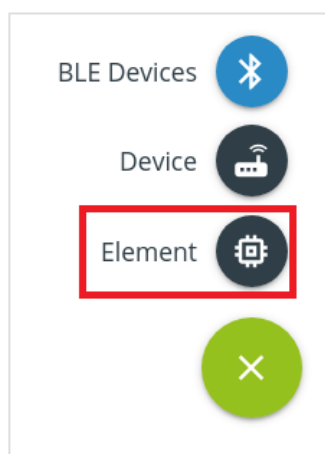
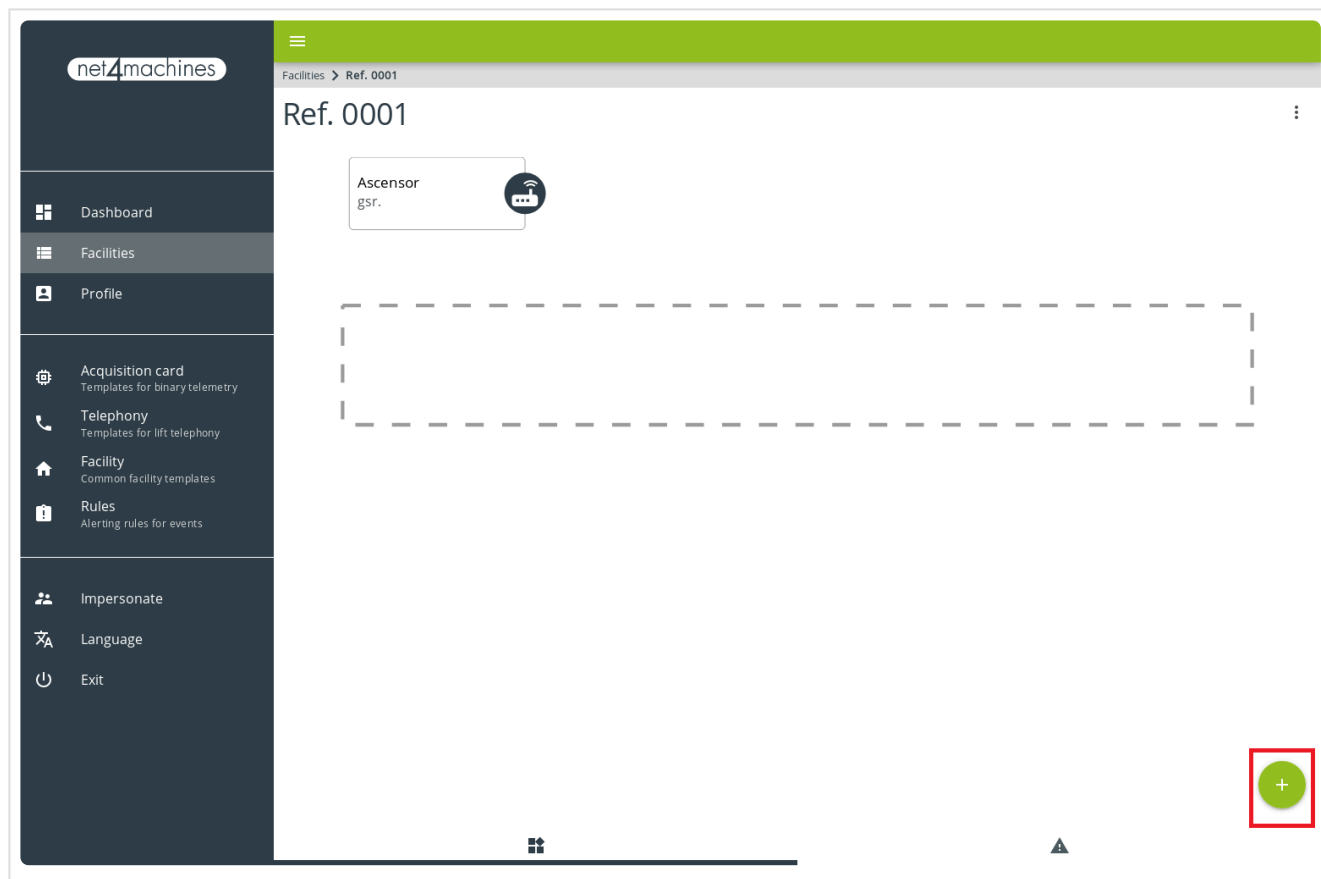
[Recuperar contraseña](#)

You will find the following overview:



In **Facilities**, search for the facility or GSR you want. You can search by MAC number of the GSR, by the reference you have previously set in this facility...
Click on the particular facility/GSR you want to add the web server (or any other element).

2. Once inside your facility, add a new **Element** from the option at the bottom right of the screen:



Write the reference and select the `Type` and `Model`, as you can see it in the image.

Add element

Reference

Type

webserver

Model

v1

CANCEL

CREATE



Do not close this page until the connection is completed.

3. It is important that you match the IP of your controller to the IP range of the GSR by assigning it an IP where the Network ID is 192.168.255 and the Host ID is a number between 50 and 90.

Example of valid IP: **192.168.255.70**

This will be the local IP of the webserver.

4. Access the following page and enter your credentials:

URL: <https://app.n4m.zone/>

Accounts

Account user:

Reclaim

Export

New account

Refresh

Show 10 of 15,400 elements

Search:

Show/Hide columns

Hostname	Reference	User	IP	Online	Type	Other	ICC	3G Data	Month traffic
Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...
GSR			10.100.7.196	OFFLINE		RB			0 bytes
			10.100.7.80	OFFLINE		RB			0 bytes
zju11z3s			10.172.173.2	OFFLINE		RB			0 bytes
admin.chinaws2n4m	1p86k9h8		10.172.173.1	OFFLINE					0 bytes
			10.173.174.175	ONLINE					277.12 GB
			10.72.72.107	OFFLINE					0 bytes
			10.0.0.84	OFFLINE		DS	RB		0 bytes
			10.72.122.6	OFFLINE					0 bytes
			10.72.112.42	ONLINE					1.30 MB
			10.72.104.219	OFFLINE					0 bytes

Previous

1

2

3

4

5

...

1540

Next

In Search type the MAC of your GSR. It will appear in the list, select it.

Open the Advanced configuration menu.

Account: Back

Configure Stats Alerts Save Delete

Hostname ⓘ
Select a domain and a unique name.

User ⓘ
User for the account to authenticate to the VPN.

Password ⓘ
Password for the account to authenticate to the VPN. Will be auto-generated if left empty.

Reference
Descriptive name for the account.

IP
Keep current IP . 0-255 . 0-255
To get a new IP select the desired IP range. If the 3rd and/or the 4th IP numbers are specified, the first greater or equal free IP on that range will be used.

Basic Configuration ▶

Advanced Configuration ▶

NAT Configuration ▶

Custom fields ▶

In Connect IPTables command rules, click Edit and type:

```
nat<GSR_PORT> <IP_LOCAL_WEBSERVER> <LOCAL_WEBSERVER_PORT>
```

Basic Configuration ▶

Advanced Configuration ▶

Virtual Account
☐ OFF
A virtual account doesn't connect to the VPN directly, instead it connects through a gateway account.

Gateways
List of gateway account IPs the account will connect through.

Gateway Account
☐ OFF
A gateway will relay traffic for other accounts.

Default Gateways
When this account sends traffic through the VPN to an IP outside of the VPN, relay traffic to one of this gateways.

Restart connection
☐ OFF
Some actions need the account to restart its connection to the VPN to apply its changes, this field will activate automatically when changing a field that needs a restart.

Connect IP command rules ⓘ
Edit
IP command rules to be executed on account connection.

Disconnect IP command rules ⓘ
Edit
IP command rules to be executed on account disconnection.

Connect IPTables command rules ⓘ
Edit
IP Tables command rules to be executed on account connection.

Disconnect IPTables command rules ⓘ
Edit
IP Tables command rules to be executed on account disconnection.

NAT Configuration ▶

Custom fields ▶

For the GSR_PORT use port 8040, 8050, 8060... In case you have more elements, it is important that you use a different port than the ones already assigned.

The IP_LOCAL_WEBSERVER is the IP set in step 3.

The LOCAL_WEBSERVER_PORT, which is the second port number, will be the port to which the controller will transfer the data. The standard port for webserver is port 80.

For example:

Connect IPTables command rules ?

+ Add ▾

Clear

☒ Done

✕ nat

8084

192.168.255.70

80

↓

GSR_PORT

↓

IP_LOCAL_WEBSERVER

↓

LOCAL_WEBSERVER_PORT

IP Tables command rules to be executed on account connection.

Once you have finished, click **Done**.

! Do not forget to click on **Save** once you have finished this step!

SaveDelete

Hostname 
example.gsr. 
Select a domain and a unique name.

User 

User for the account to authenticate to the VPN.

Password 
***** 
Password for the account to authenticate to the VPN. Will be auto-generated if left empty.

Basic Configuration 

Advanced Configuration 

Virtual Account

OFF

A virtual account doesn't connect to the VPN directly, instead it connects through a gateway account.
Gateways

List of gateway account IPs the account will connect through.

Gateway Account

OFF

A gateway will relay traffic for other accounts.

Default Gateways

When this account sends traffic through the VPN to an IP outside of the VPN, relay traffic to one of this gateways.

Restart connection

ON

Some actions need the account to restart its connection to the VPN to apply its changes, this field will activate automatically when changing a field that needs a restart.

Reference

Descriptive name for the account.

IP

Keep current IP  0-255 0-255

To get a new IP select the desired IP range. If the 3_{rd} and/or the 4_{th} IP numbers are specified, the first greater or equal free IP on that range will be used.

Connect IP command rules 

 Edit

IP command rules to be executed on account connection.

Disconnect IP command rules 

 Edit

IP command rules to be executed on account disconnection.

Connect IPTables command rules 

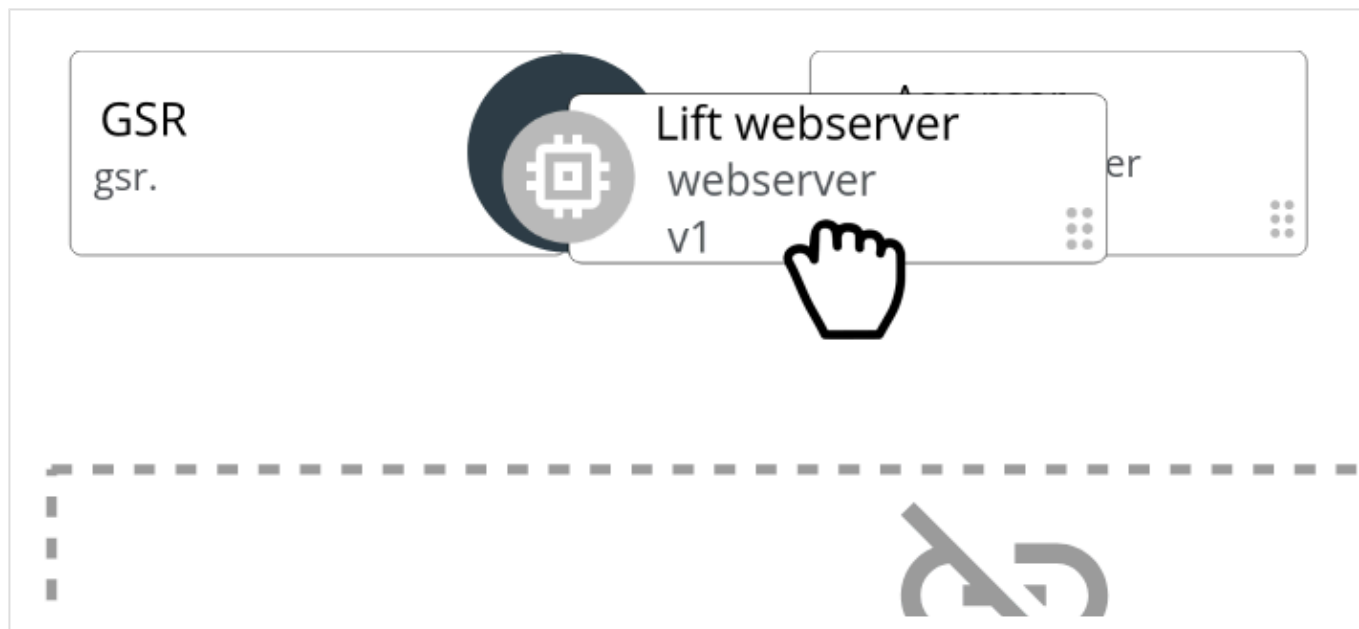
 Edit

nat 8040 192.168.255.70 80

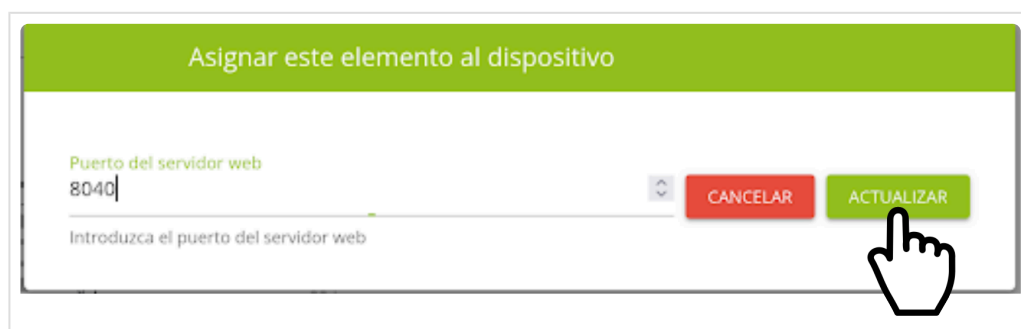
IP Tables command rules to be executed on account connection.

The `Save` button is at the top right.

5. Return to the page you did not close in Step 2 URL and link the item: Select and drag, keeping the item selected, to the GSR device.



When you drop the element on the device, the following window will open:

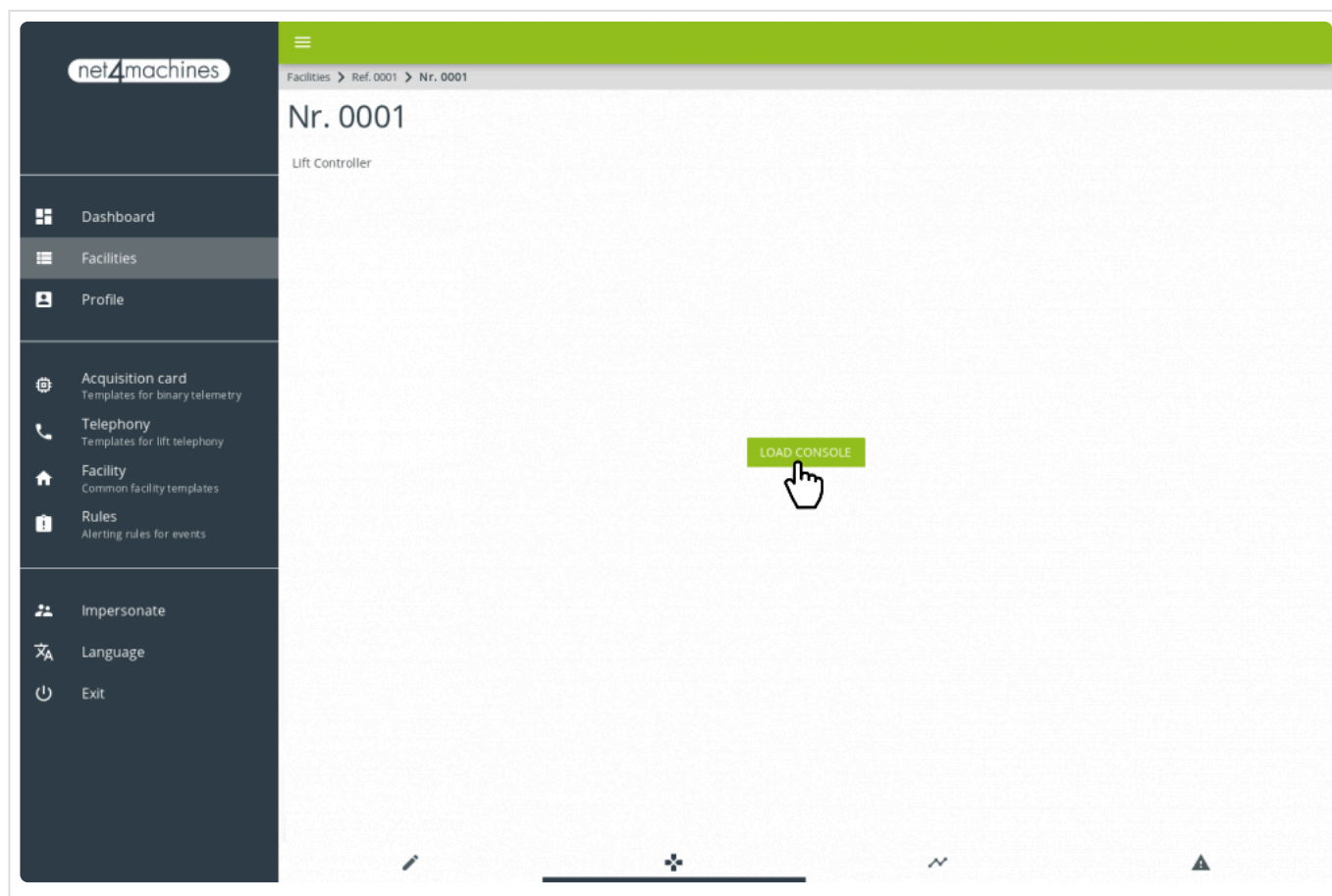
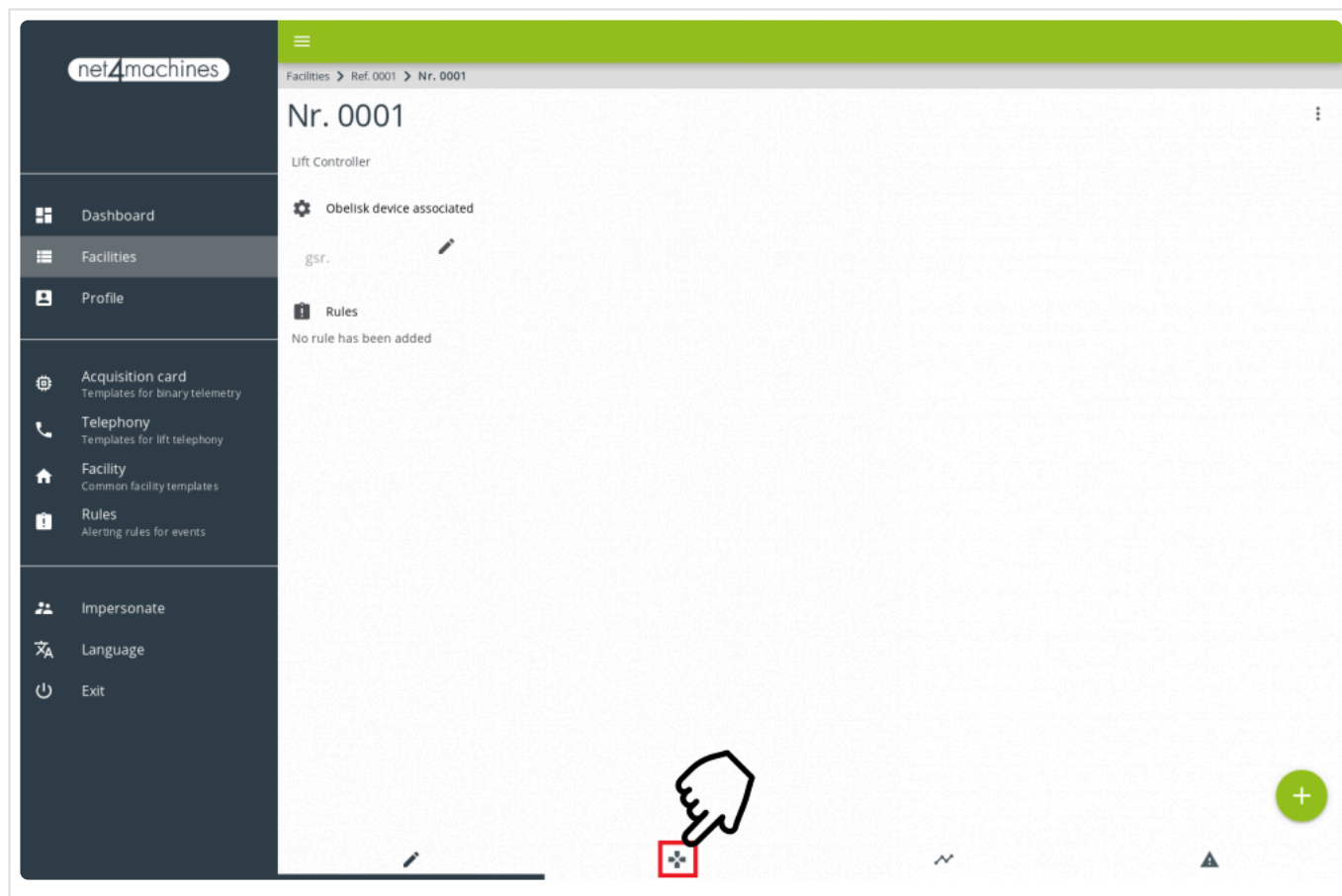


Select a Web Server Port. This number corresponds to the GSR destination port assigned in step 4 GSR_PORT.

And click Update.

6. Click on the created element:

Click on Console and within the console, click on LOAD CONSOLE:



You can now connect to the webserver of your device!

2.3.1. Remote Programming Siemens PLC Logo!

! To follow this guide you must request the customised configuration file for the VPN from Nayar Systems. The VPN access username and password will be supplied with the file.

1. The Nayar Systems Technical area will be contacted to request the configuration file, user and password.

Phone:	964 066 995
E-mail:	support@nayarsystems.com
App Google:	App Android
App IOS:	App IOS
Website:	Web soporte técnico Nayar Systems

The technical area must be informed of the IP assigned to the Siemens PLC together with its subnet mask. With this information, they will make the necessary configuration to access the remote programming of the Siemens PLC.

* It is recommended to configure the Siemens PLC in the following IP range= 192.168.1.2 – 192.168.1.200 with the following subnet mask 255.255.255.0

2. When you receive the email with the configuration file, username and password you will need to get the GSR ip via Smart Control (blue link below).

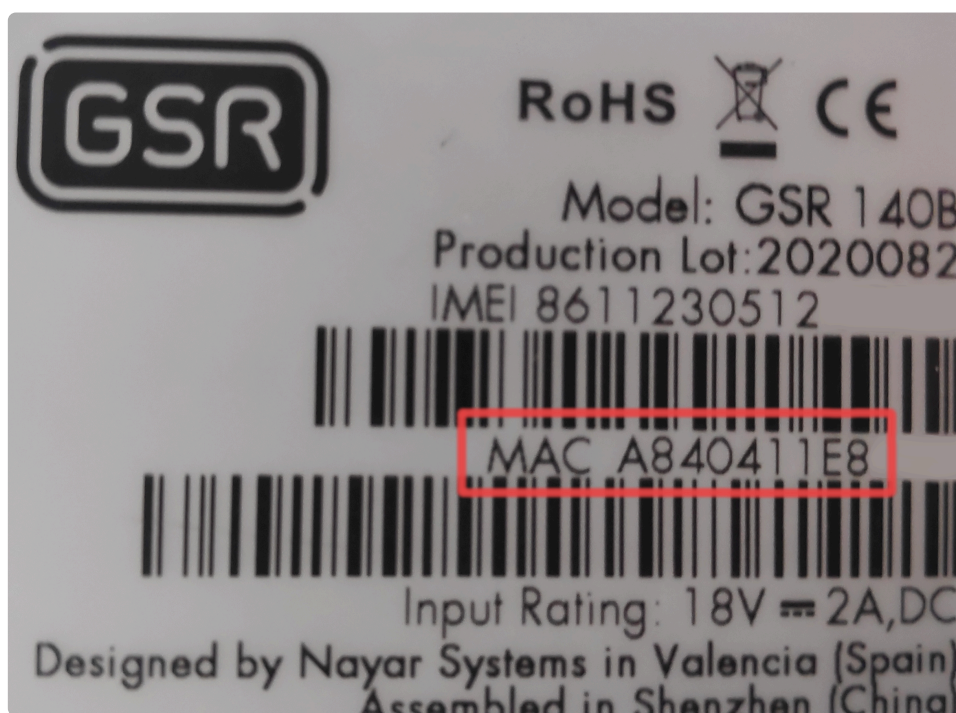
[Smart Control N4M link](#)

1. Click on the icon **installations** to access all available installations.

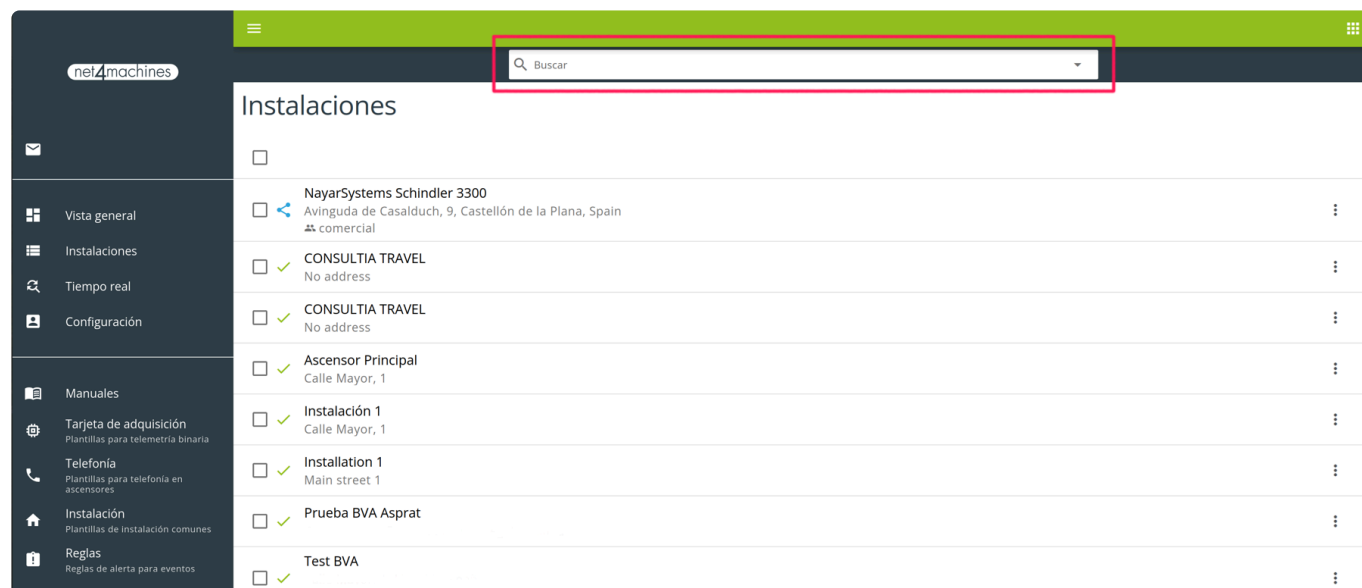


2. Locate the installation where the Siemens PLC is installed.

2.1. The MAC is located on the bottom sticker of the GSR (red box in the picture below).

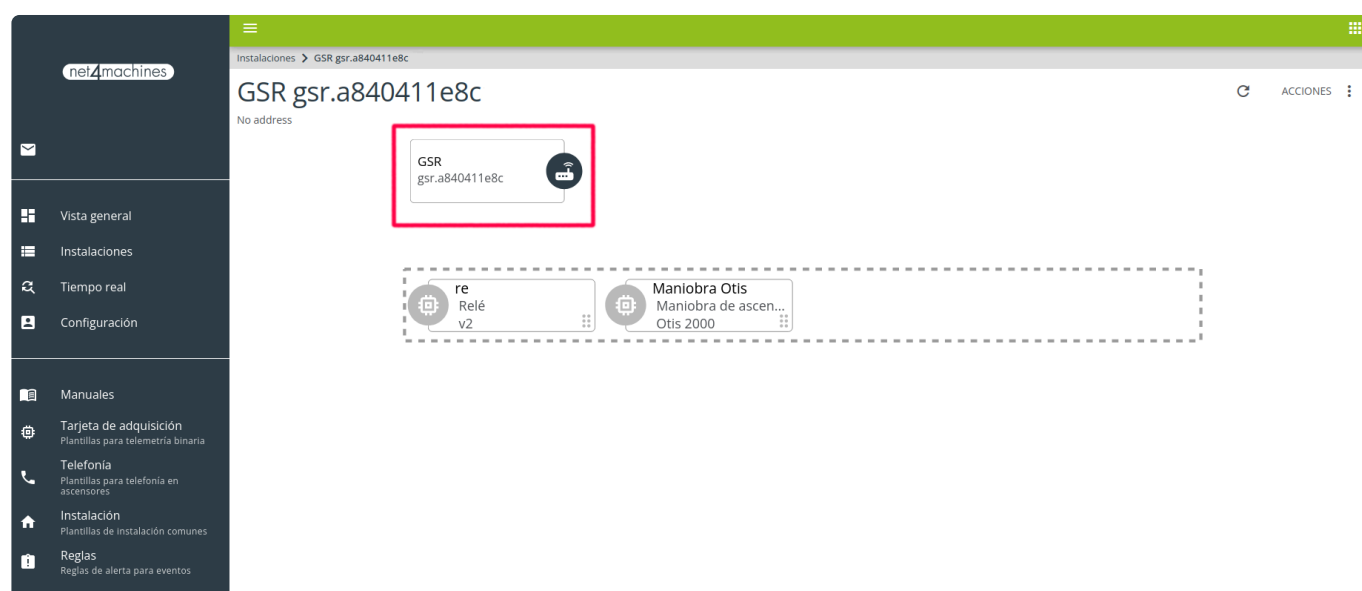


2.2. Enter MAC or name of the installation in the red box in the image below. When the installation appears, click on it with the mouse.



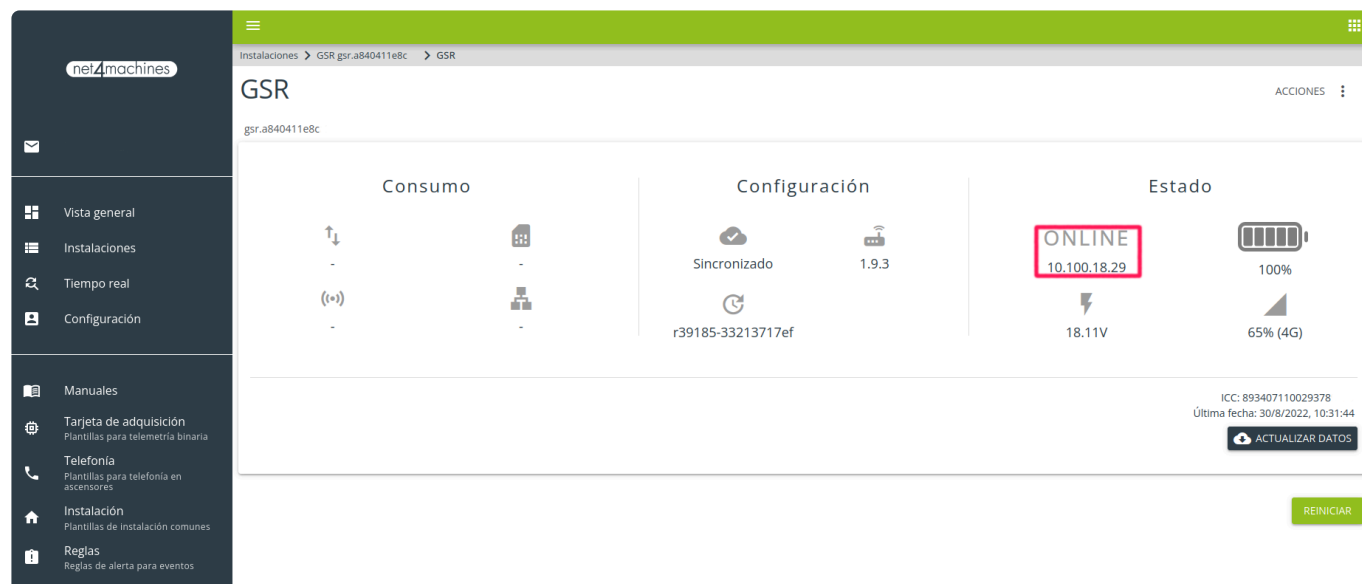
The screenshot shows the 'Instalaciones' page in the Nayar Systems interface. A red box highlights the search bar at the top right, which contains the text 'Buscar'. The left sidebar contains a menu with options: Vista general, Instalaciones, Tiempo real, Configuración, Manuales, Tarjeta de adquisición, Telefonía, Instalación, and Reglas. The main content area lists several installations, including 'NayarSystems Schindler 3300', 'CONSULTIA TRAVEL', 'Ascensor Principal', 'Instalación 1', 'Installation 1', 'Prueba BVA Asprat', and 'Test BVA'.

3. Click on the GSR icon to access (red box below).



The screenshot shows the 'GSR gsr.a840411e8c' page in the Nayar Systems interface. A red box highlights the 'GSR gsr.a840411e8c' icon in the top right corner. The page displays the GSR icon and the text 'GSR gsr.a840411e8c'. Below this, there are two sections: 're Relé v2' and 'Maniobra Otis Maniobra de ascen... Otis 2000'.

4. In the GSR menu locate the IP address (red box in the picture below). Make a note of it to connect through the Logo!

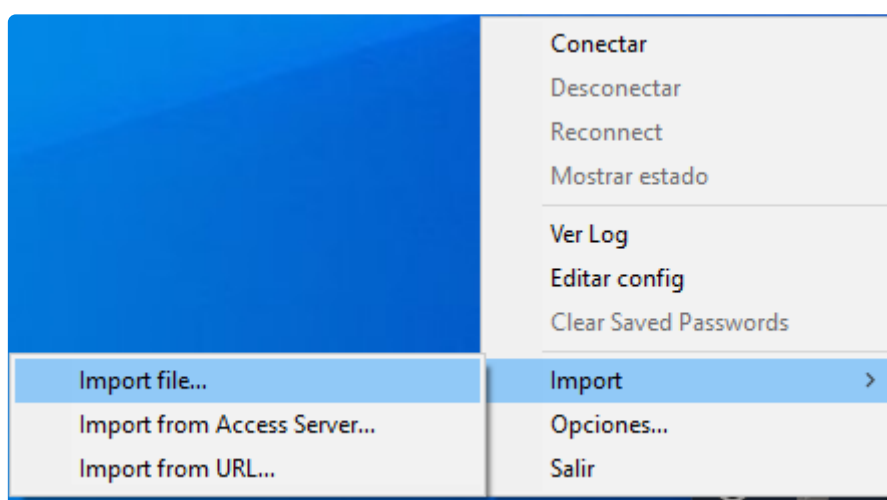


2. Download and install the Openvpn program (blue link below), this will be installed on the computer where the Siemens PLC's are programmed (Example Windows).

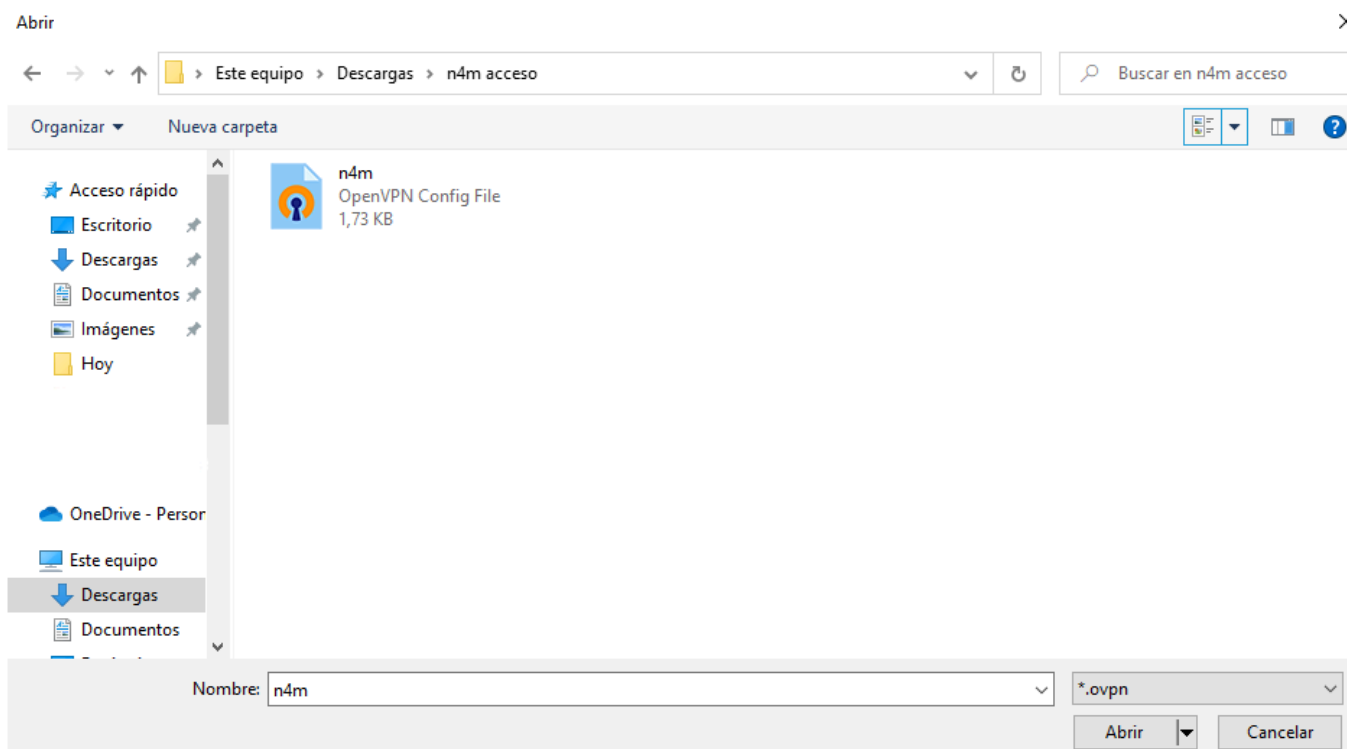
[Openvpn](#)

3. With the programme installed, it has to be configured for use with our VPN..

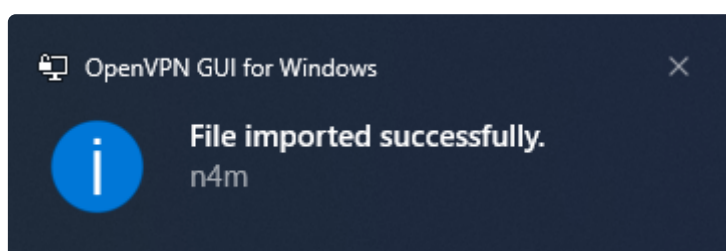
1. Look for the icon in the task bar, it will be next to the clock and right-click on it to display the options. Select "import file".



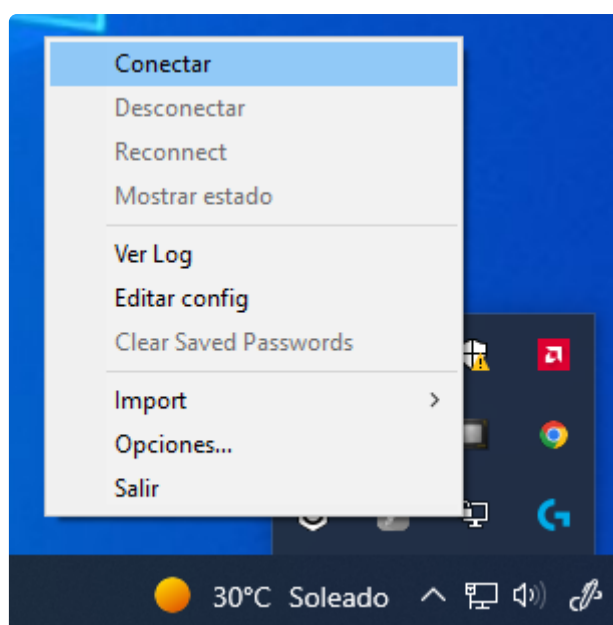
2. Select the file received by e-mail to configure the connection.



3. Once imported, the system will notify us that the operation has been completed.

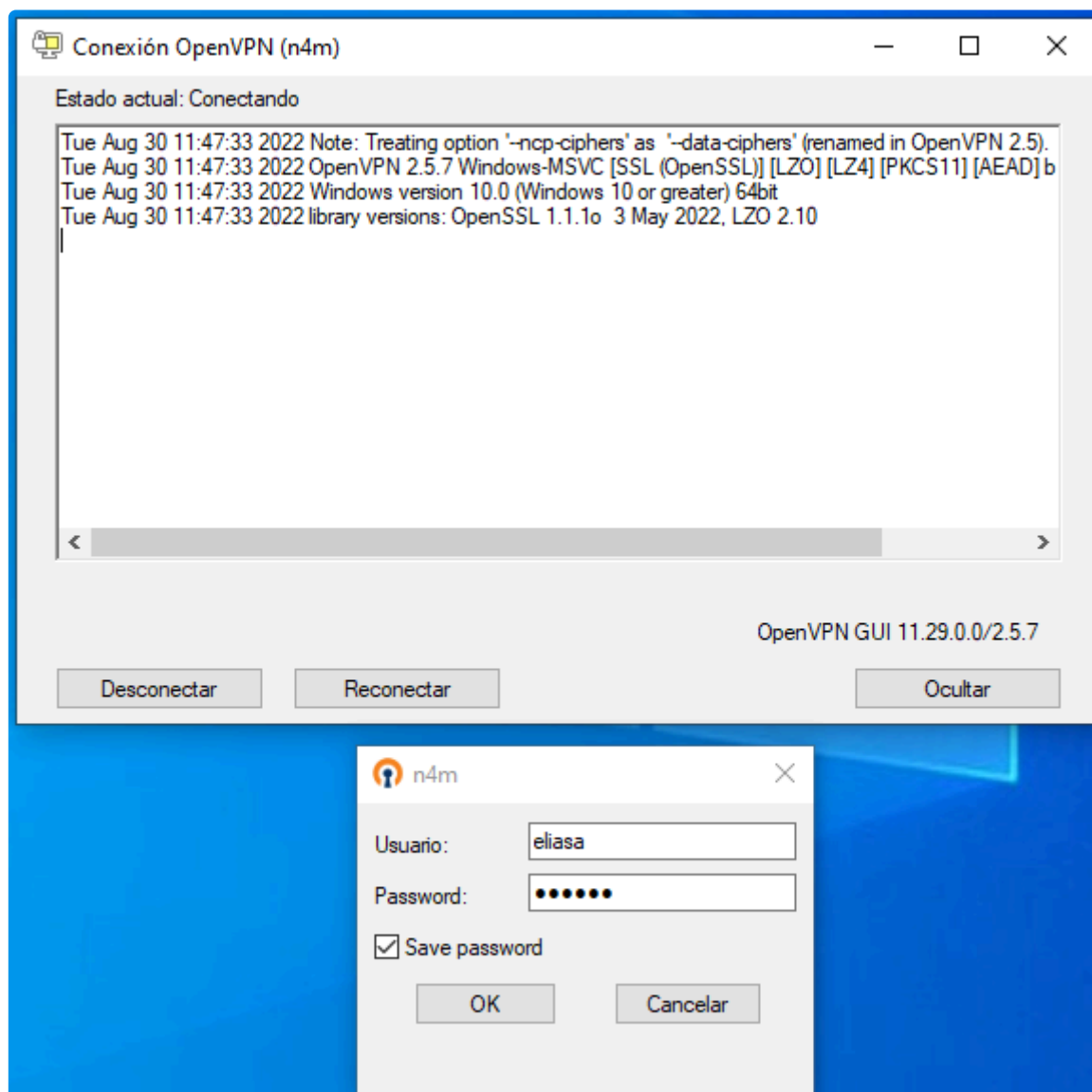


4. Right-click on the icon to display the **connect** option.

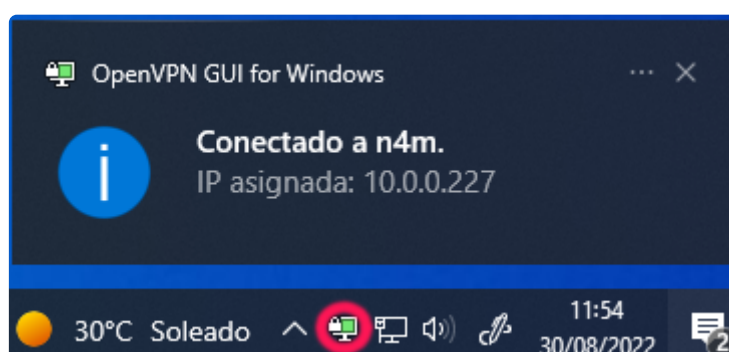


4. We will be asked for the username and password that were received by email along with the

configuration file.



5. Once entered, the icon will turn green and we will be informed that we are connected to the VPN.



4. Enter the IP, subnet mask and gateway in the Logo!soft comfort program to program the Siemens PLC.

Address IP This is the **IP** address assigned to the GSR.

Subnet mask 255.255.255.X for the IP address range assigned to the GSR (**This varies depending on the IP assigned to the GSR**).

gateway It is the **IP** address by changing the last number to 1 (example 10.100.18.29 —> **10.100.18.1**).

✿ The IP address of the GSR will be required to configure the Logo!soft comfort program to configure the Siemens PLC remotely.

2.4. Binary Acquisition card

[Features](#)

[Connection](#)

[Platform configuration](#)

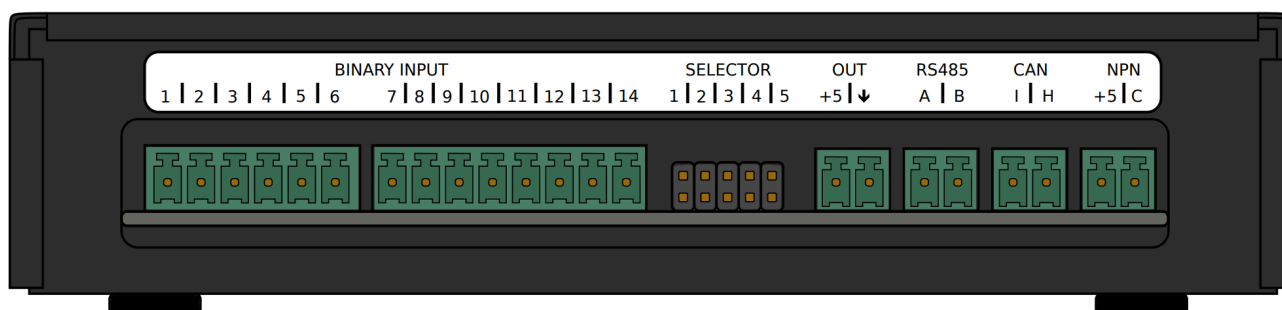
2.4.1. Features



Product contents

- Binary acquisition card
- USB to miniUSB cable

Binary acquisition card V3



- ATmega32U4 microcontroller
- 5V power supply through USB connector
- Mini-USB connector
- 3.81 mm block terminal connectors

- 14 24V tolerant digital inputs with pull-up and pull-down selector
- 5V output for powering external circuits
- RS485 port with 120 Ω end-of-bus resistor selector switch
- CAN Bus 2.0B port with 120 Ω end-of-bus resistor selector switch
- Relay output

Binary acquisition card V3 connectors

Binary inputs 1-6 – General purpose digital inputs

Selector – Jumpers selector

A1	B1
1	Pull-up of digital inputs
2	Pull-up of digital inputs
3	Pull-down of digital inputs
4	Pull-down of digital inputs
5	RS485 bus terminating resistor
6	RS485 bus terminating resistor
7	CAN bus terminating resistor
8	CAN bus terminating resistor
9	CAN bus terminating resistor
10	CAN bus terminating resistor

OUT – External power output

Pin	Función
1	+5V
2	GND

RS485 – RS485 type output connector

Pin	Función
1	A
2	B

CAN – CAN Bus type output connector

Pin	Función
1	L
2	H

NPN – Relay output

Pin	Función
1	+5V
2	Salida de relé

From the N4M Smart Control platform, each of the general purpose signals can be identified with a specific meaning.

PLANTILLA BINARIA DEMO

Plantilla binaria demo

Señales

#ARROW_UP	☒	#ARROW_DOWN	☒	#IN_MOTION	☒
#UNDER_MAIN	☒	#OVERLOAD	☒	#OPEN_DOOR	☒
#FLOOR_BIT_1	☒	#FLOOR_BIT_2	☒	#FLOOR_BIT_3	☒
#FLOOR_BIT_4	☒	#FLOOR_BIT_5	☒	pin11	☐
pin12	☐	pin13	☐	Pull Up	

Relay

Alertas

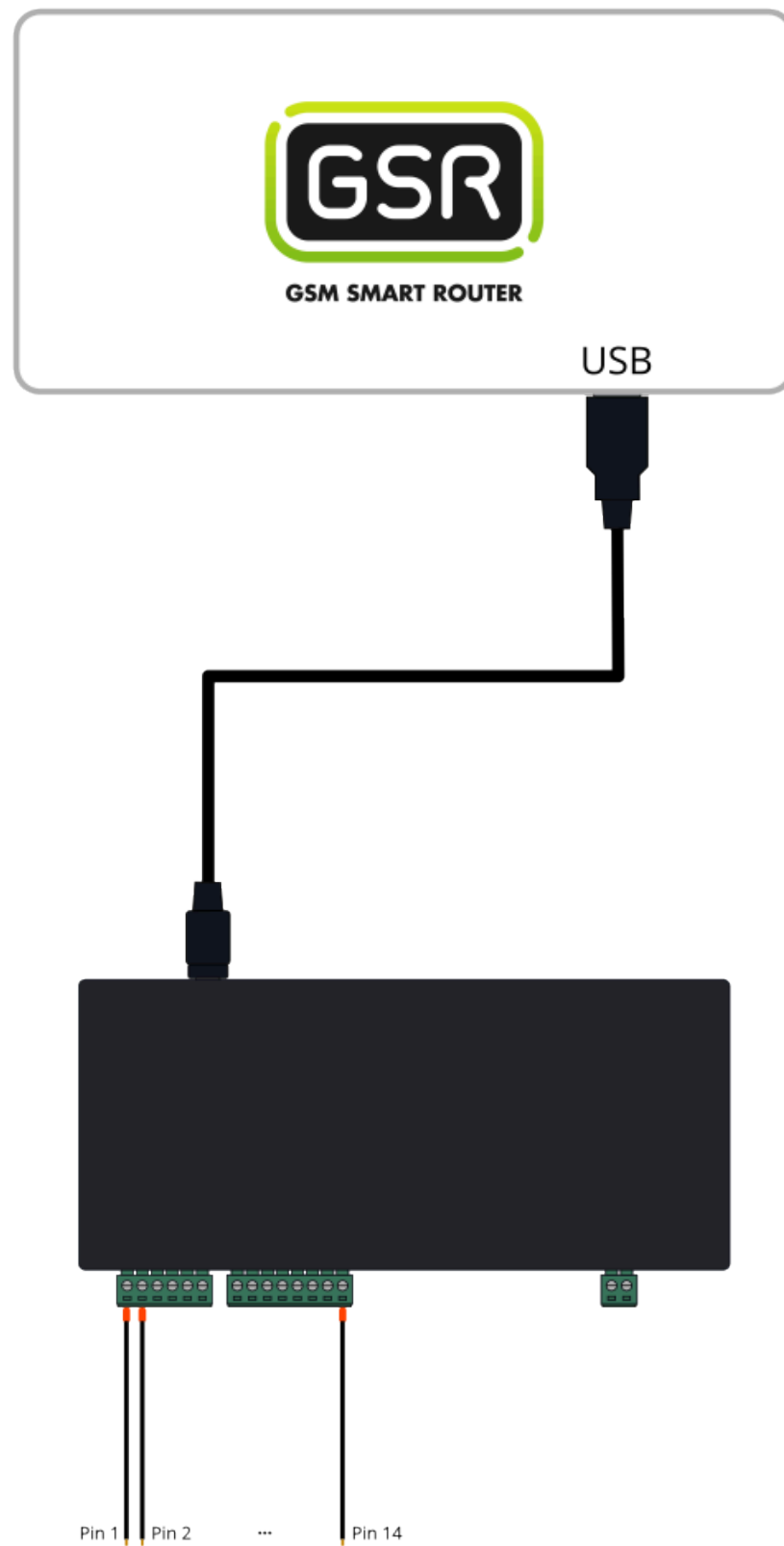
Sobrecarga

CANCELAR

ACEPTAR

2.4.2. Connection

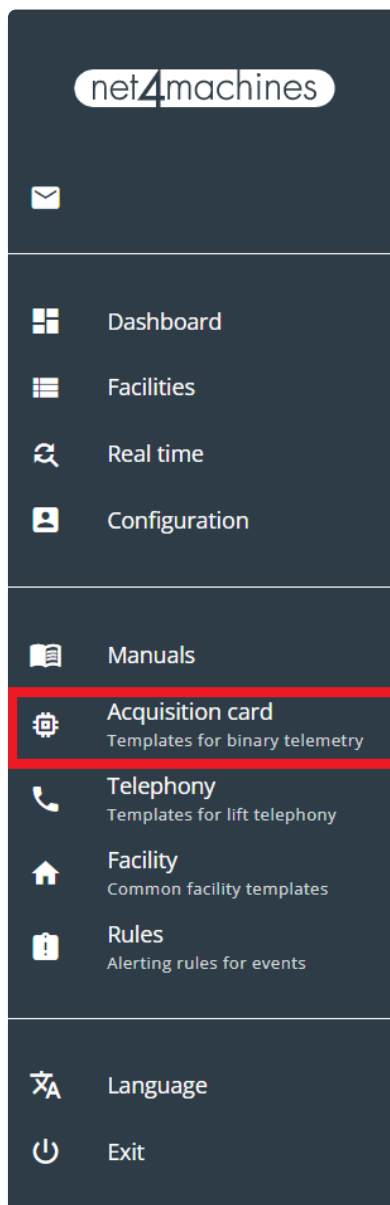
- Connect the miniUSB end of the cable to the external binary board.
- Connect the USB end of the cable to GSR
- Make the signal connections according to the desired scheme.



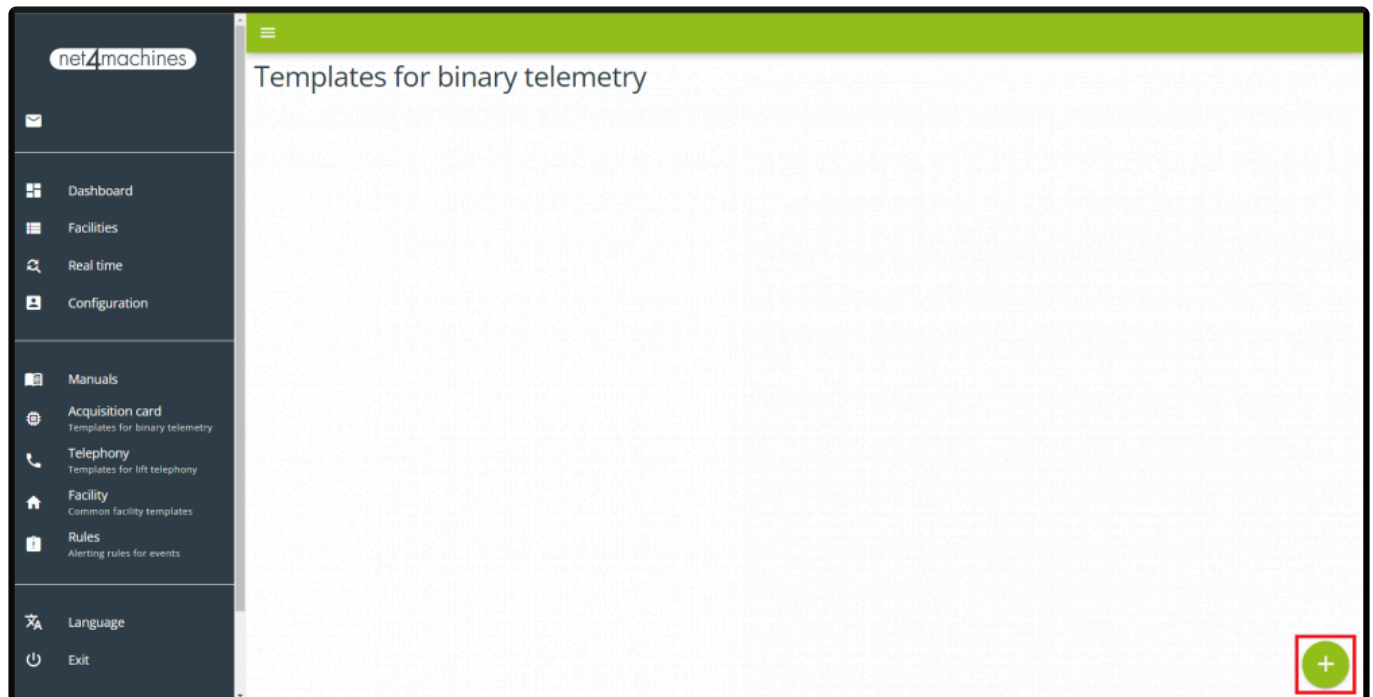
! The voltage conversion from 110VAC to 24VDC is essential for the correct operation of the binary board of the binary board. In case of connecting directly to 110V, the board would suffer an irreparable failure. irreparable failure

2.4.3. Platform configuration

1. Log in the platform.
2. Click on “Acquisition card” on the side menu.



3. Create a new template.



4. Assign a name and create it.

The 'Add template' dialog box is shown. It has a green header with the title 'Add template'. Below the header, there is a label 'Name' and a text input field containing 'Test Template'. At the bottom right, there are two buttons: 'CANCEL' (red) and 'CREATE' (green).

5. Click on “Actions” and “Edit”.



6. Enable the pins you want to use and assign a name or select from the menu.

TEST TEMPLATE

Test Template

 Signals

pin00			pin01		
pin02			ARROW_UP		
pin04			ARROW_DOWN		
pin06			IN_MOTION		
pin08			UNDER_MAINTENANCE		
pin10			OVERLOAD		
pin12			OPEN_DOORS		
Pull Up			FLOOR_BIT_0		
			FLOOR_BIT_1		
			FLOOR_BIT_2		
			FLOOR_BIT_3		
			FLOOR_BIT_4		
			FLOOR_BIT_5		

 Alerts



7. Create an alert.

Test Template

Signals

pin00			pin01		
pin02			pin03		
pin04			pin05		
pin06			pin07		
pin08			pin09		
pin10			pin11		
pin12			pin13		

Pull Up

Relay

Alerts

There are no alerts

8. . Assign a custom name, time (optional) and pins indicating their state. In this example, an alert called **“Alert 1”** will be generated after the acquisition card detects that **“pin00”** is **HIGH** while **“pin01”** and **“pin03”** are **LOW** for over **2s**.

Add alert

Name *
Alert 1

Set a response time for the alert:
2s

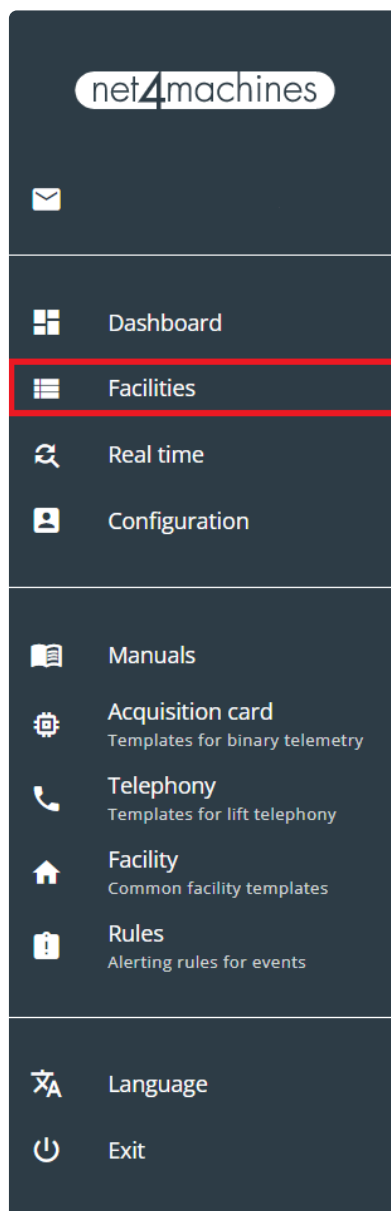
Triggers
pin00, pin01, pin03

☒ pin00 ☐ pin01 ☐ pin03

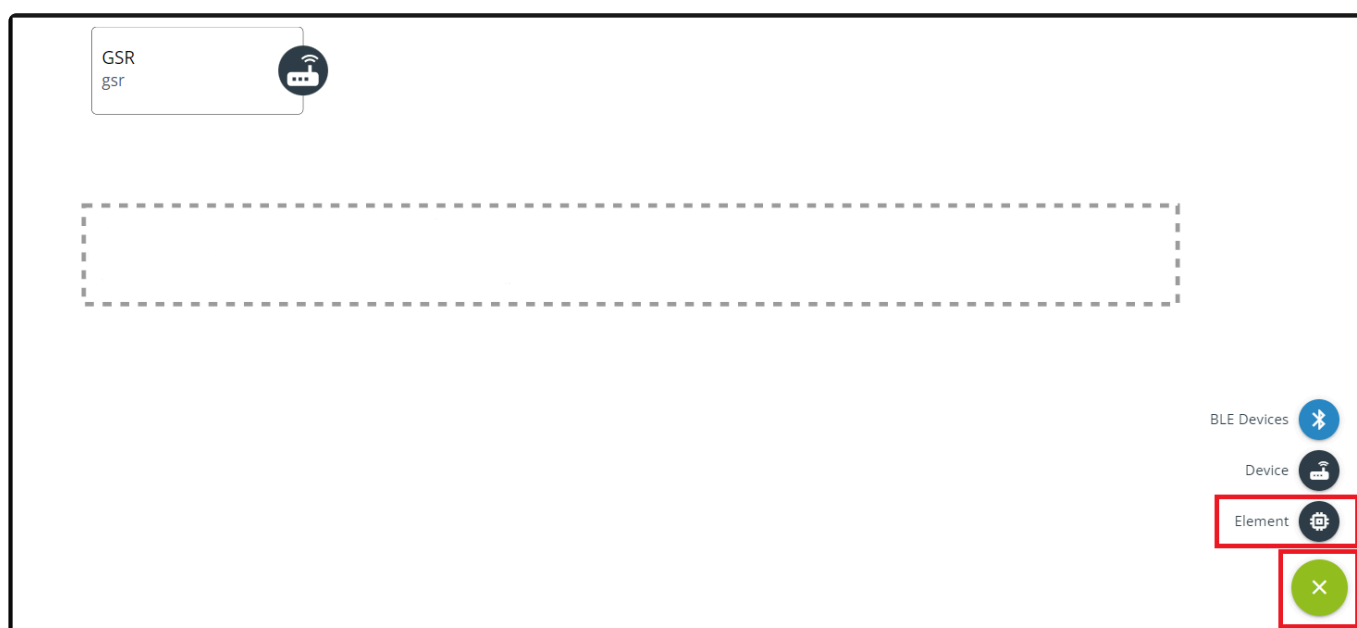
CANCEL CREATE

9. Repeat as many times as alerts you need to create.

10. Click on “Facilities” and locate the facility you want to configure with an acquisition card.



11. Create a new element.



12. Assign a reference and define the type and model as described.

Add element

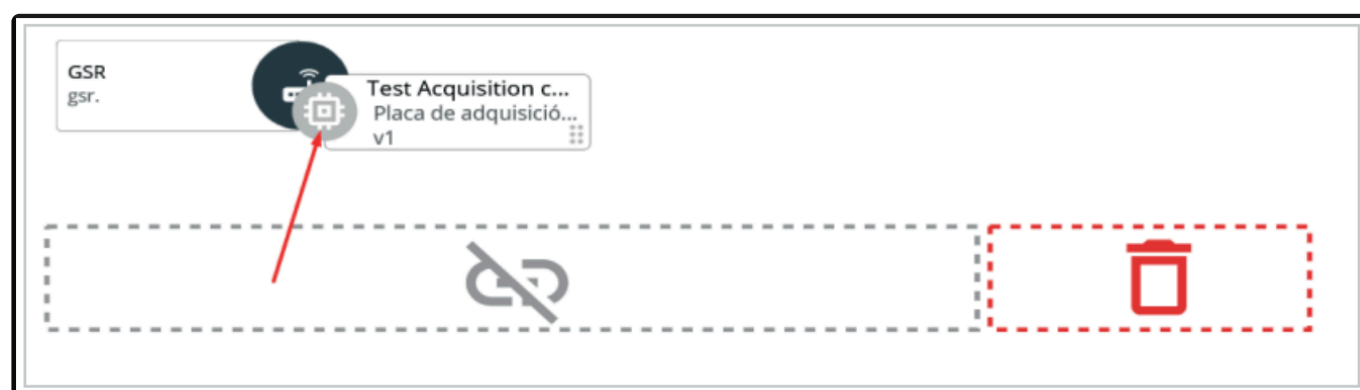
Reference
Test Acquisition Card

Type
Binary acquisition card

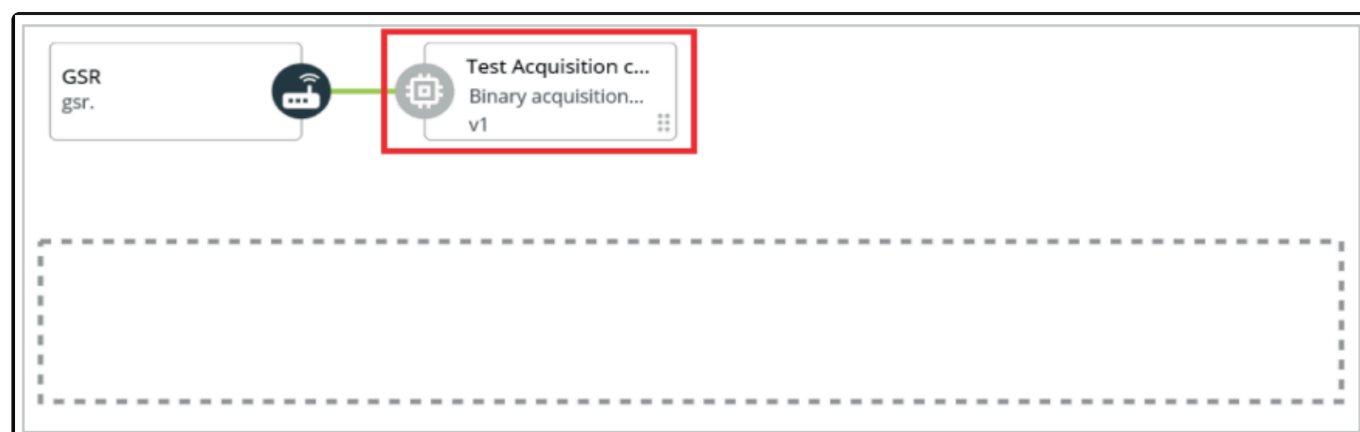
Model
v1

CANCELCREATE

13. Drag and drop the element in order to assign it.



14. Follow the steps in the assistant, select the template created previously and complete the process until the element is linked correctly.



15. Click on the element, console and “Load console” in order to see the state in real time.

Binary acquisition card v1

pin00
pin04
pin08
pin12

pin01
pin05
pin09
pin13

pin02
pin06
pin10
Pull Up

pin03
pin07
pin11
Relay

☐ Relay

LOAD CONSOLE



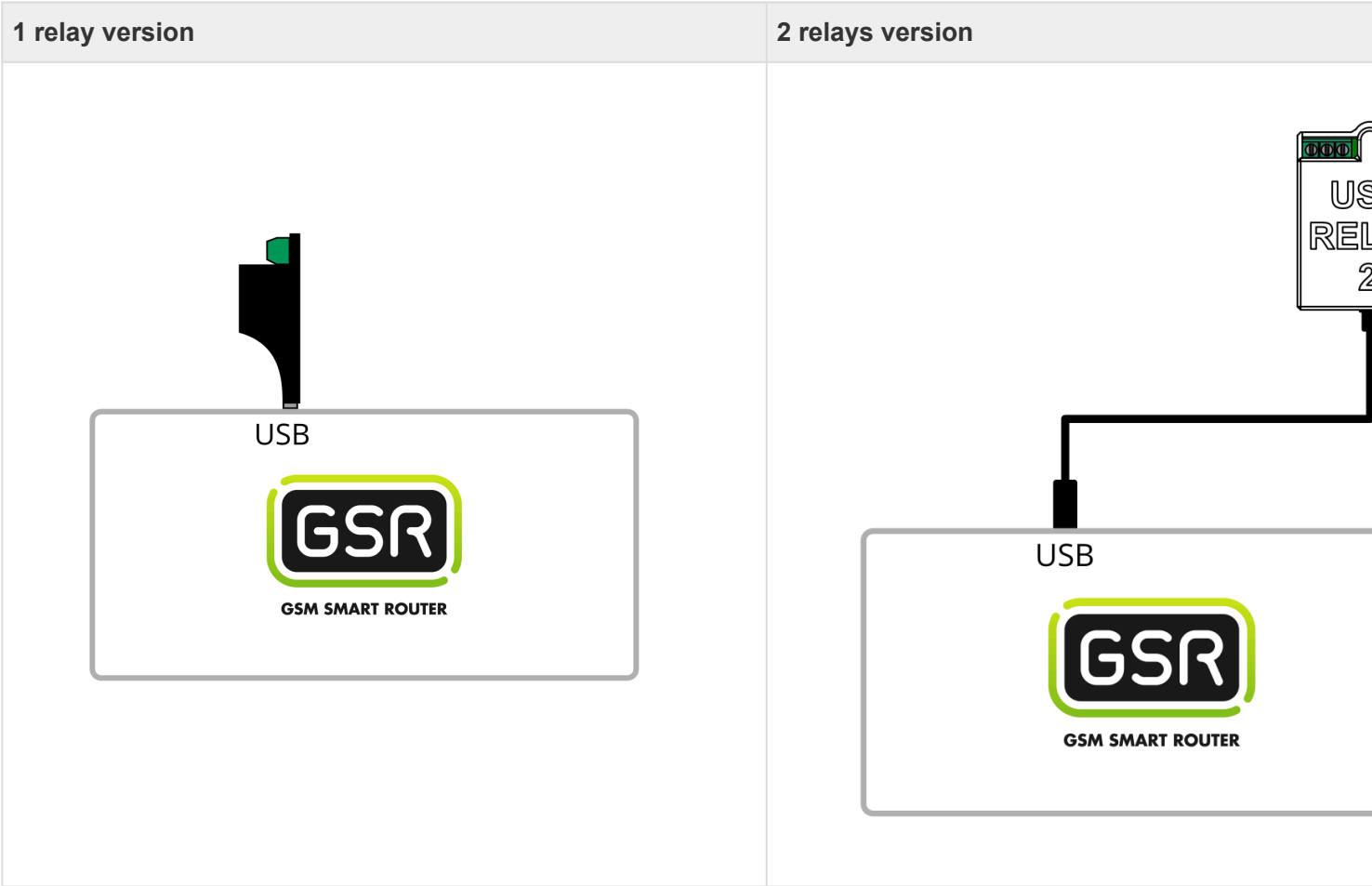
2.5. Relay USB

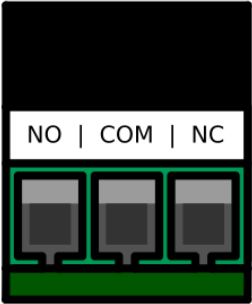
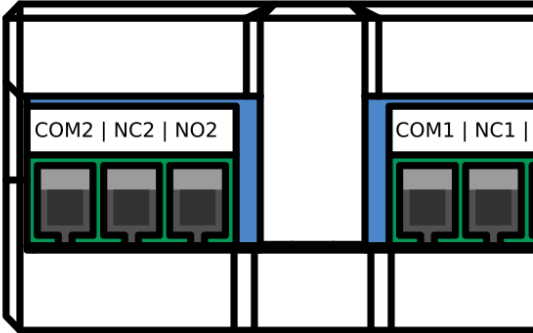
Relay USB products are sold in two versions, with one or two relays and can be used as accessories for **GSR – GSM Smart Router**.

Inside the box

1 relay version	2 relays version
Relay USB 1 relay	Relay USB 2 relays
–	USB – micro USB cable

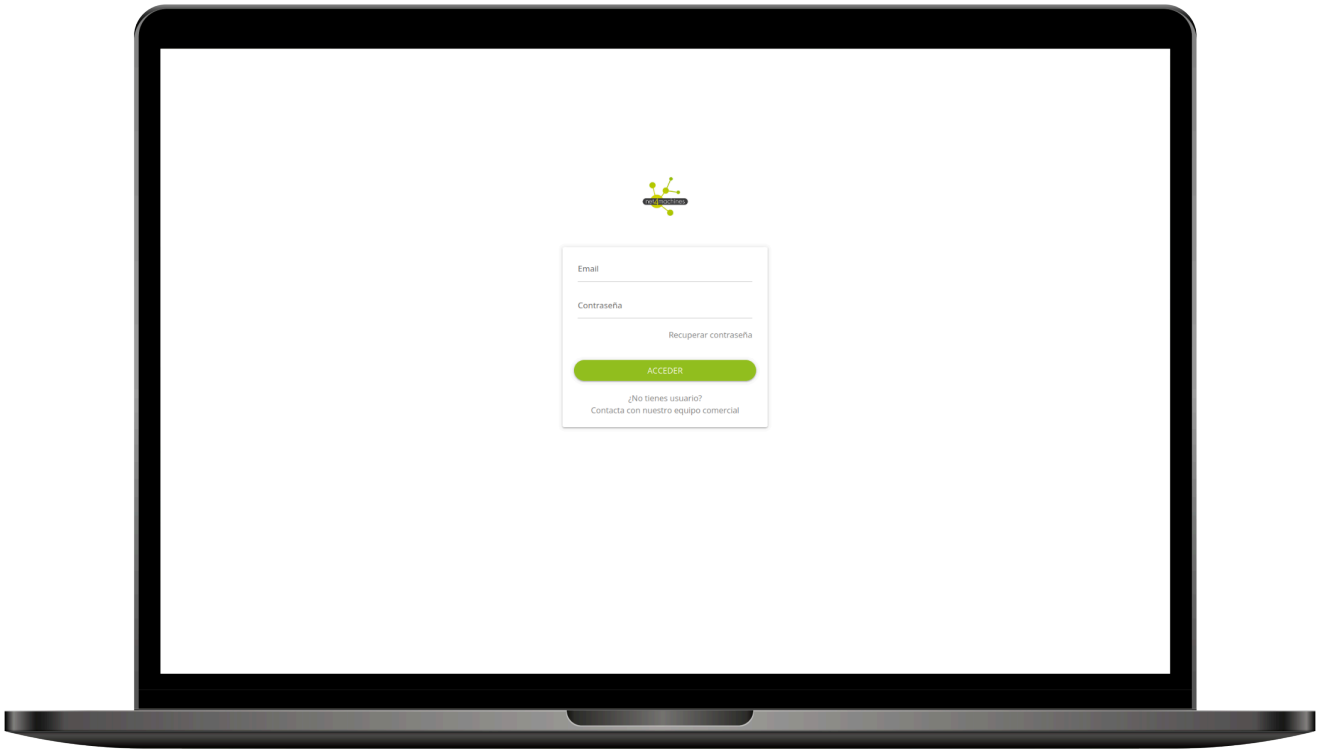
Connection



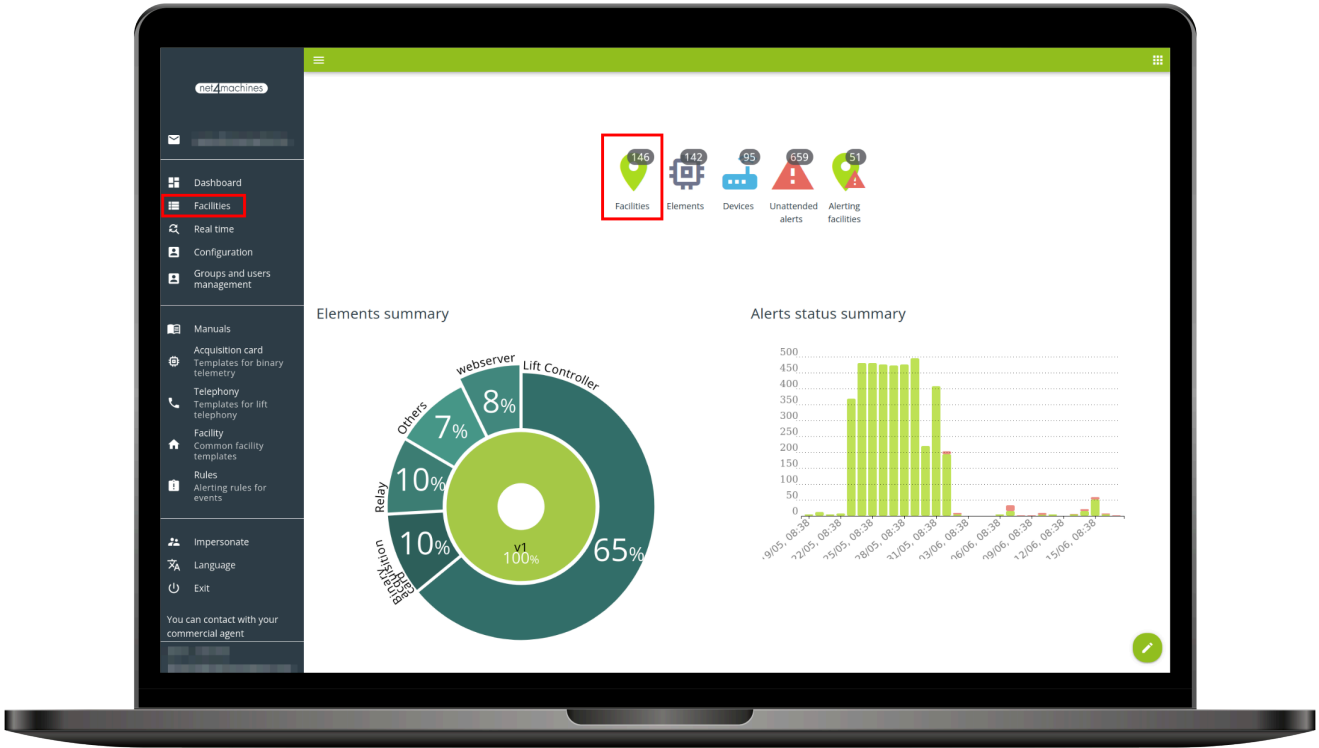
			
NO: Normally Open contact		COM2: Common contact relay 2	
COM: Common contact		NC2: Normally Closed contact relay 2	
NC: Normally Closed contact		NO2: Normally Open contact relay 2	
—		COM1: Common contact relay 1	
—		NC1: Normally Closed contact relay 1	
—		NO1: Normally Open contact relay 1	

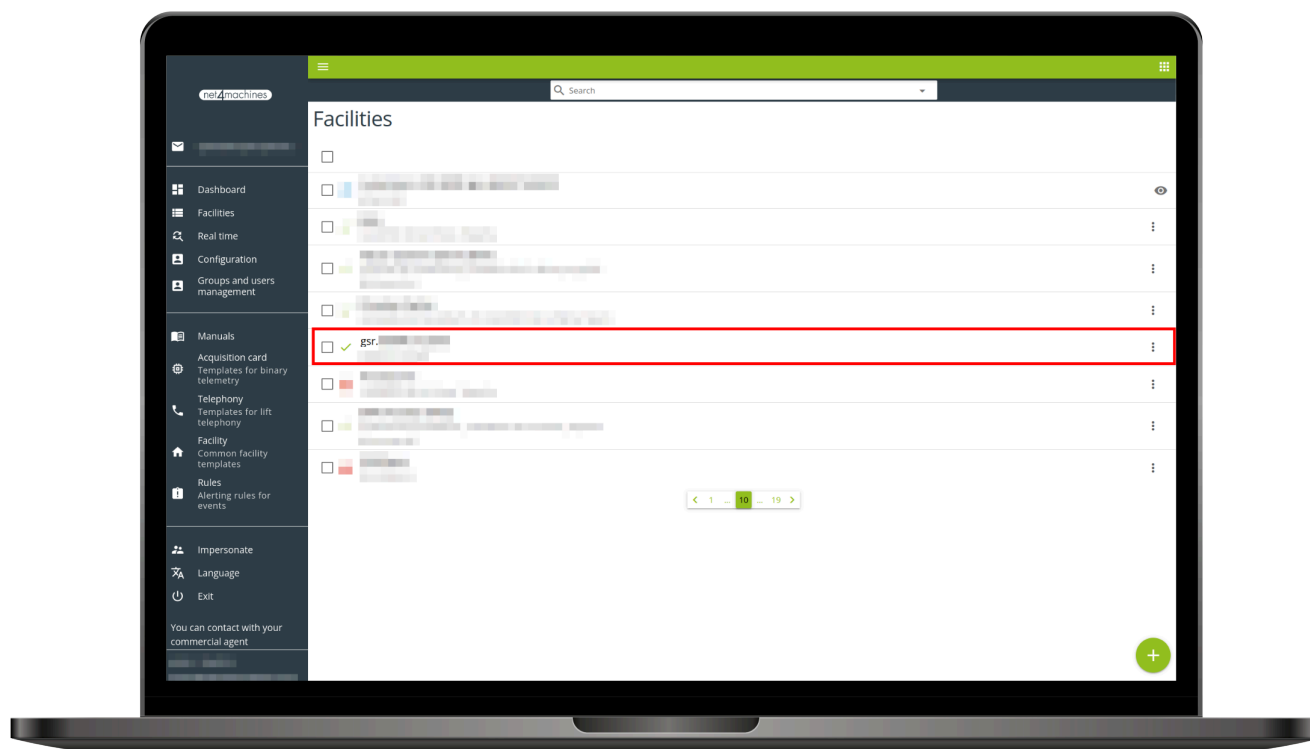
Platform configuration

1. Access the platform [Net4Machines Smart Control](#)

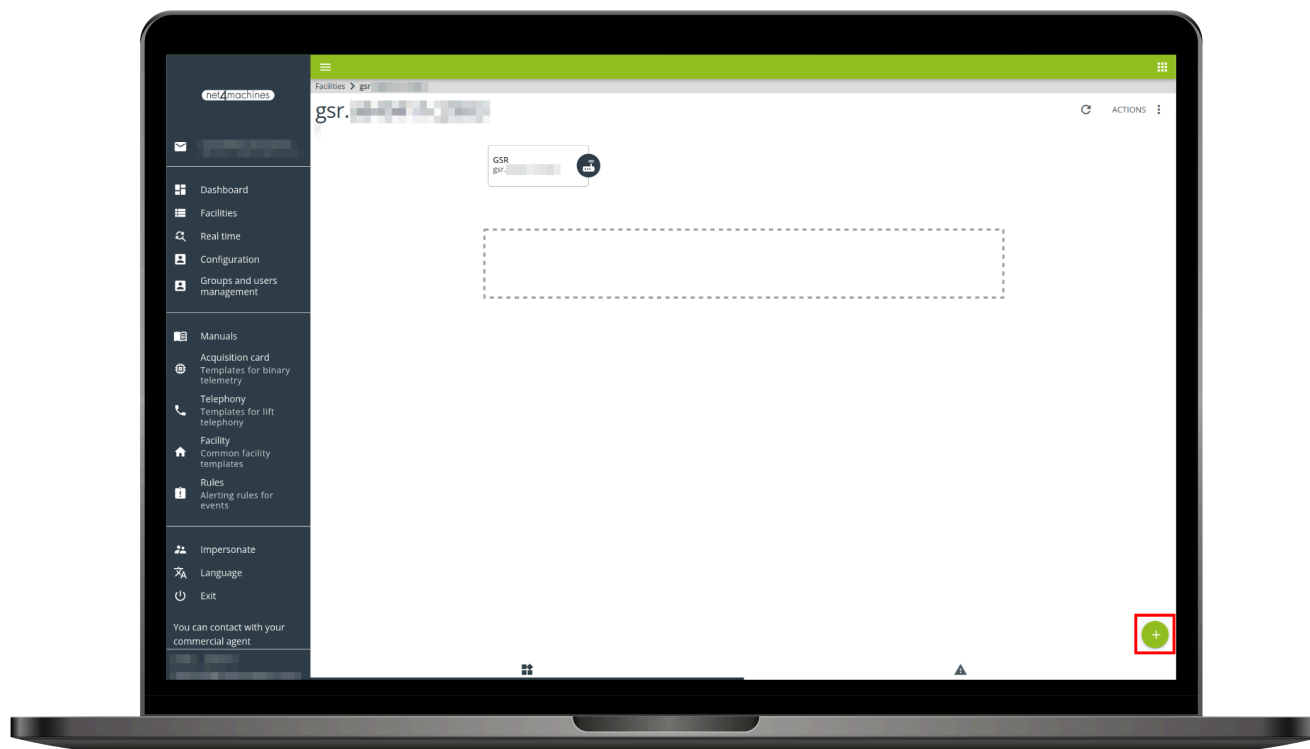


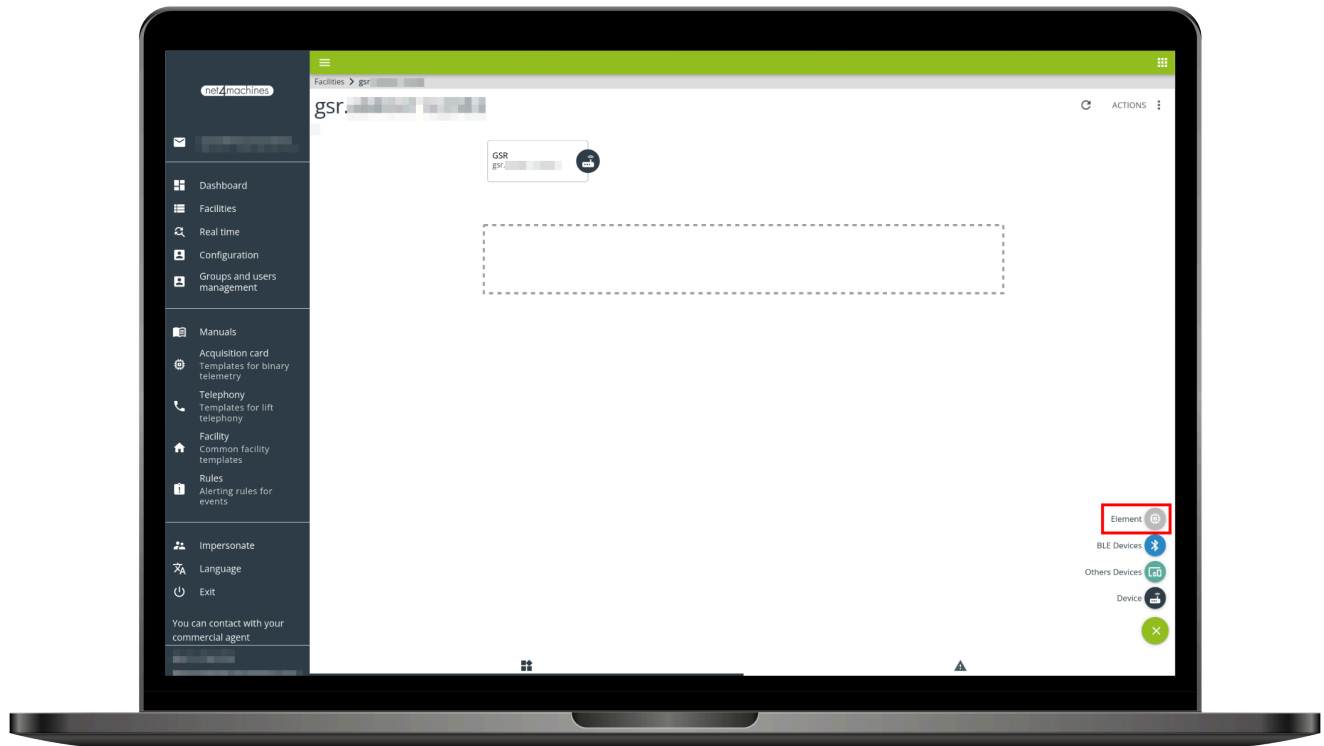
2. Locate the facility



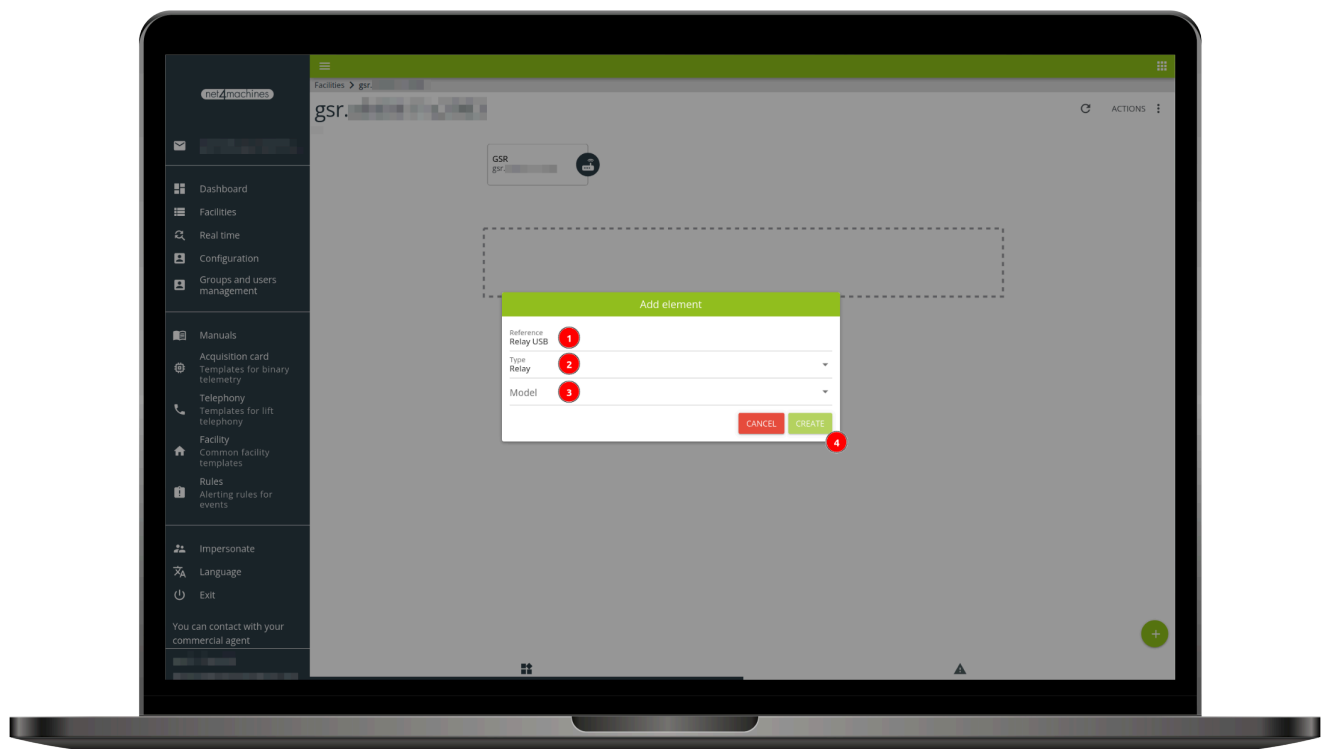


3. Add a new Element

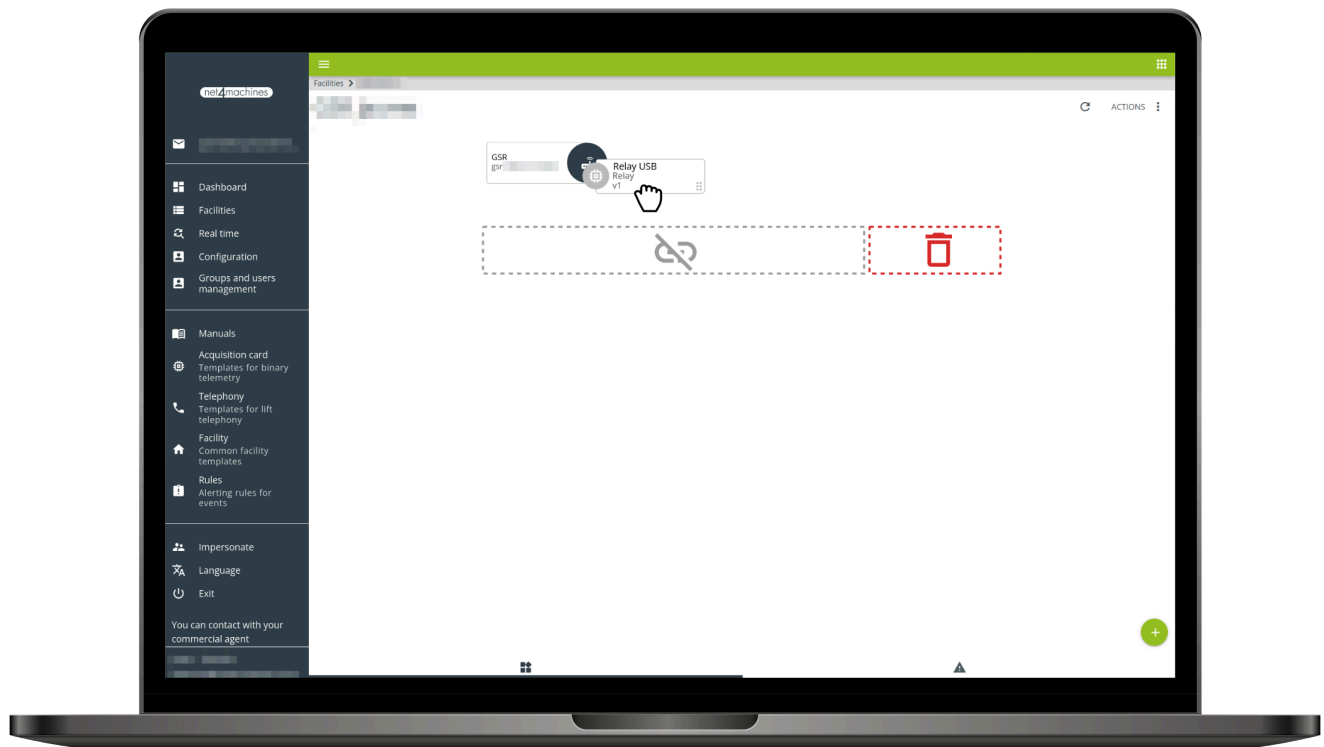
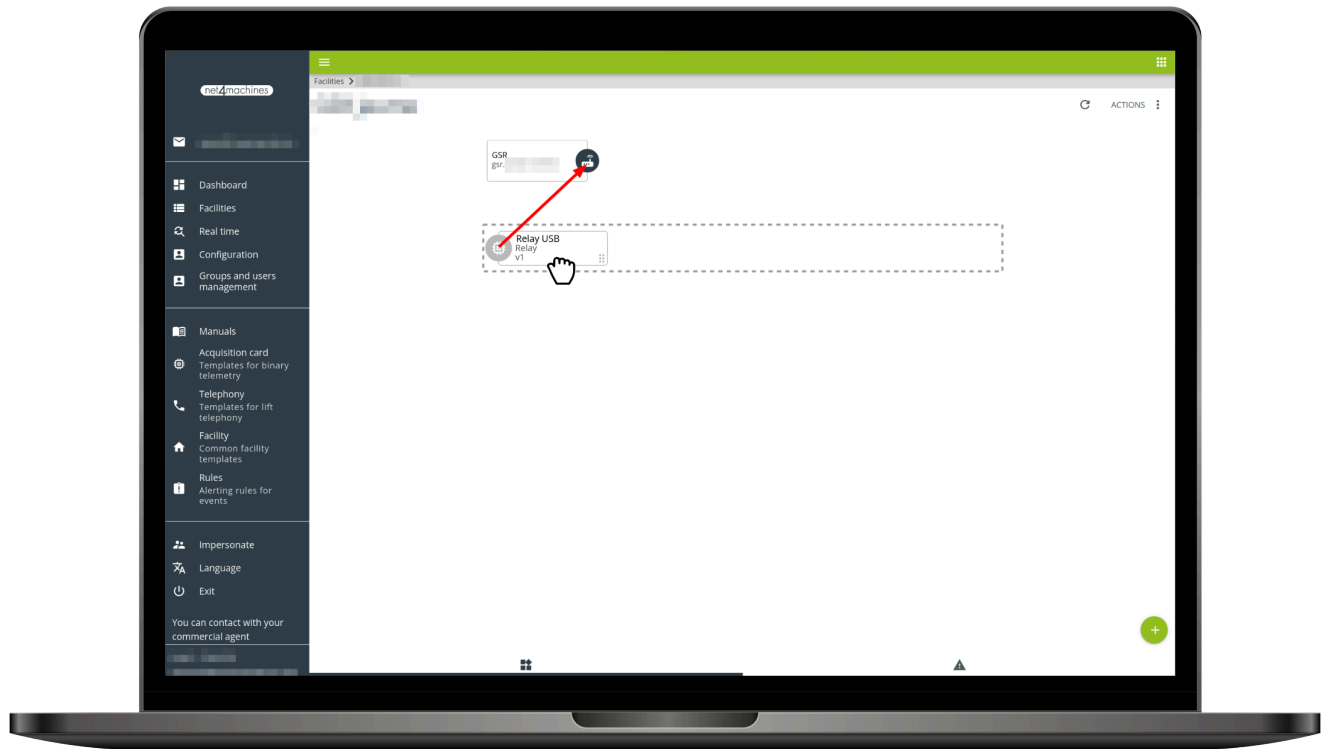




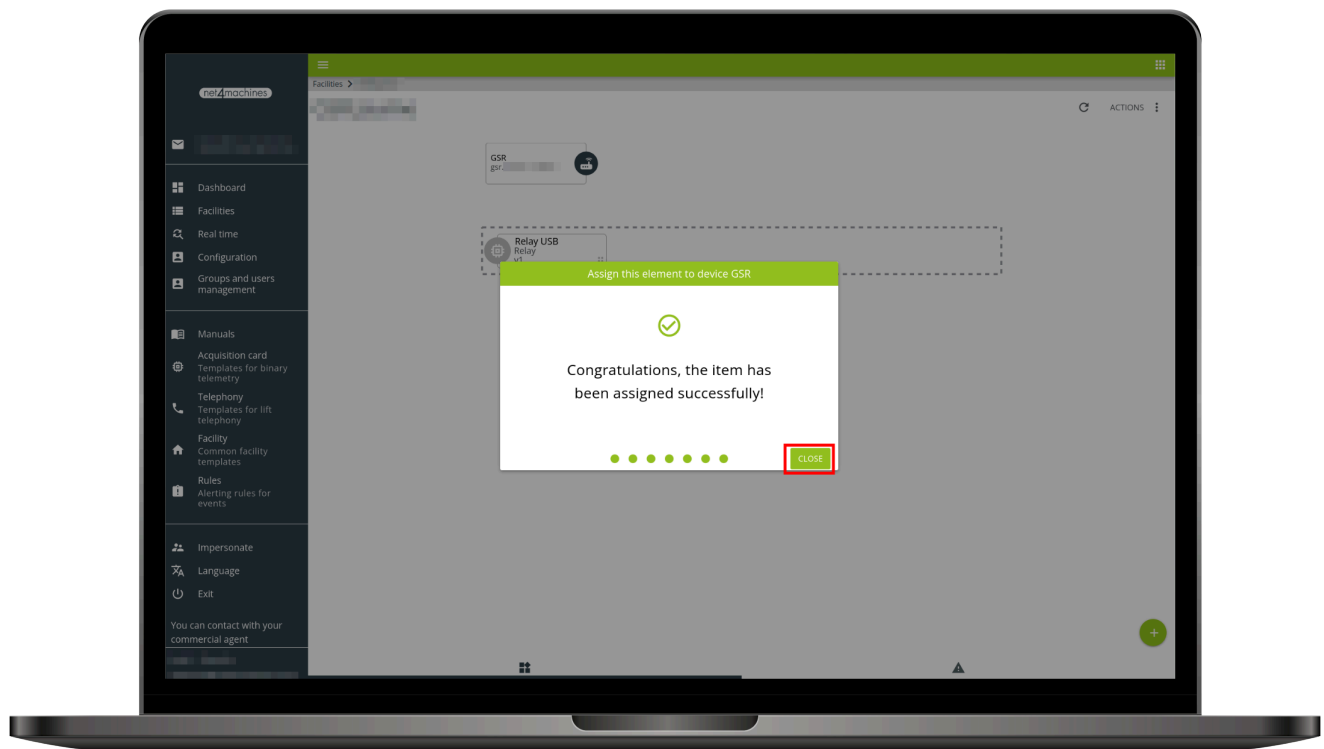
4. Add a reference, select type `Relay` and choose 1 or 2 relays model, lastly press `Create`



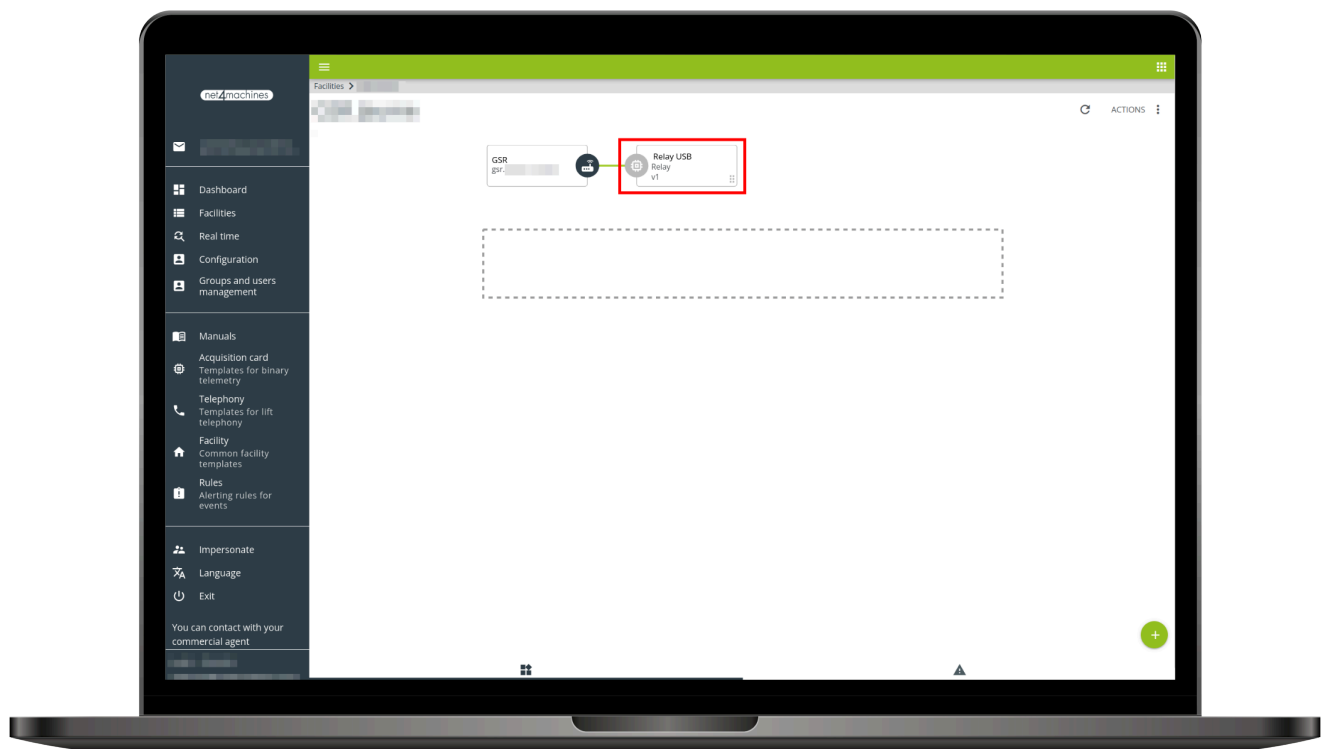
5. Drag the element to GSR

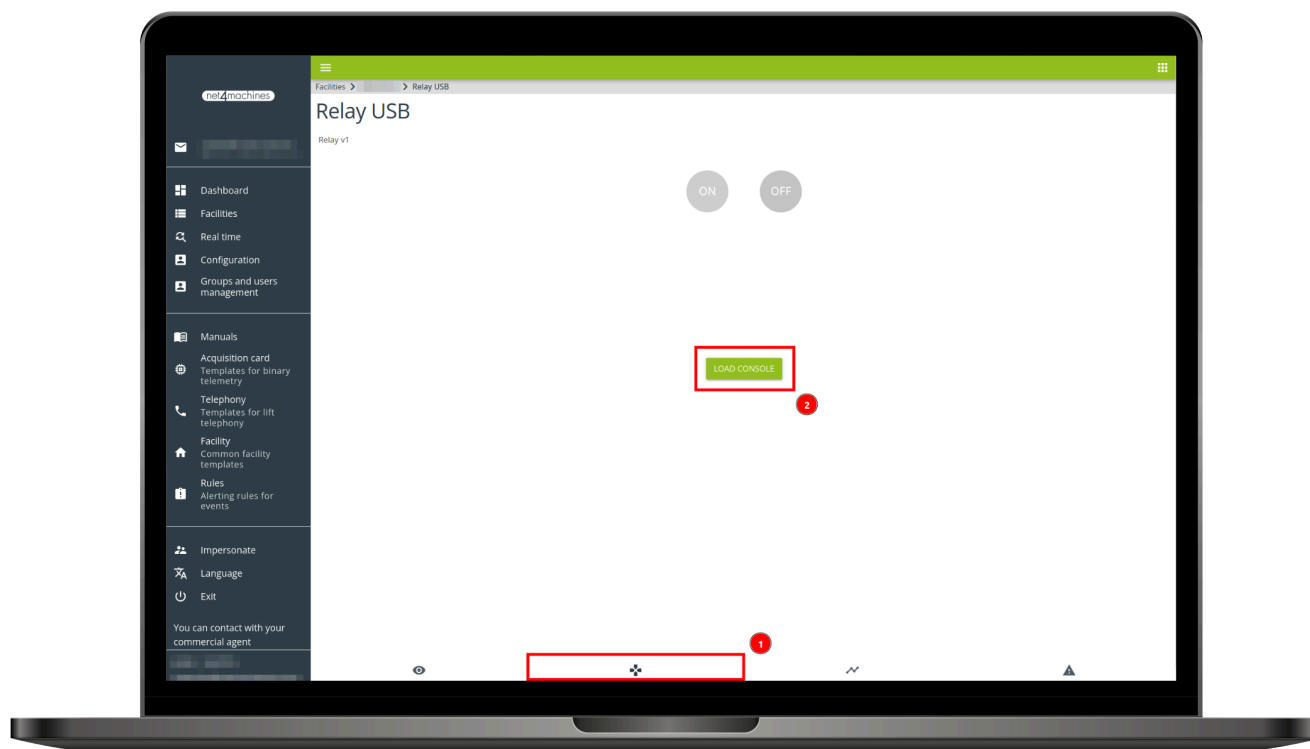


6. Follow the steps described in the wizard, connect the relay USB and once the process is completed successfully, press **Close**

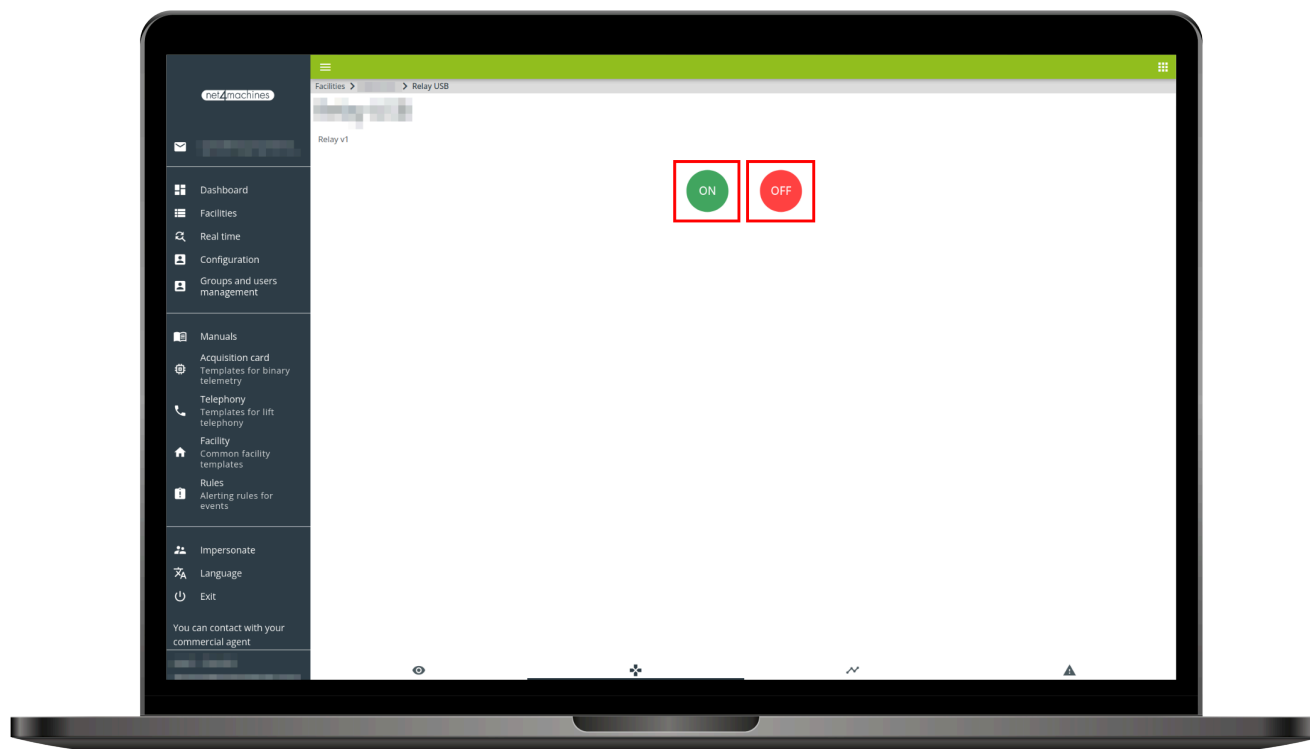


7. Press the element, Control section and Load Console





8. Once the connection is established, use the buttons **ON** and **OFF**



3. Platform Connection

3.1. Download App

If you want to configure and use the previous devices, it can be done from our website or our APP.

The link from our website is mananger.net4machines.com.

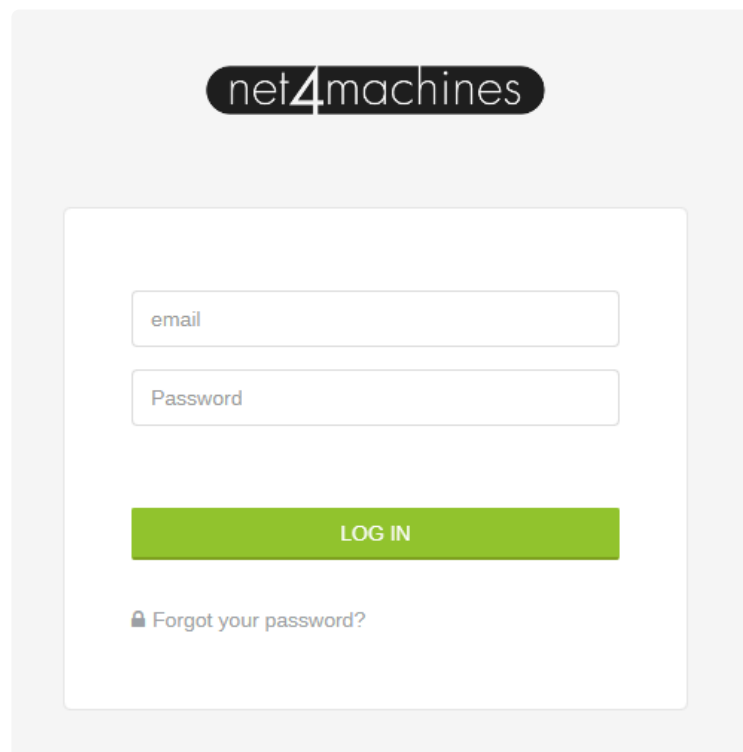
You can download the APP by clicking or scanning any of the following QR codes.



[Follow the next steps in Platform Configuration](#)

3.2. Platform configuration

1. Access **Net4Machines Smart Control** platform. URL: <https://manager.net4machines.com/>

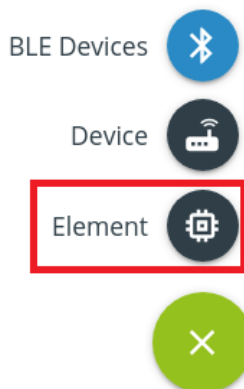
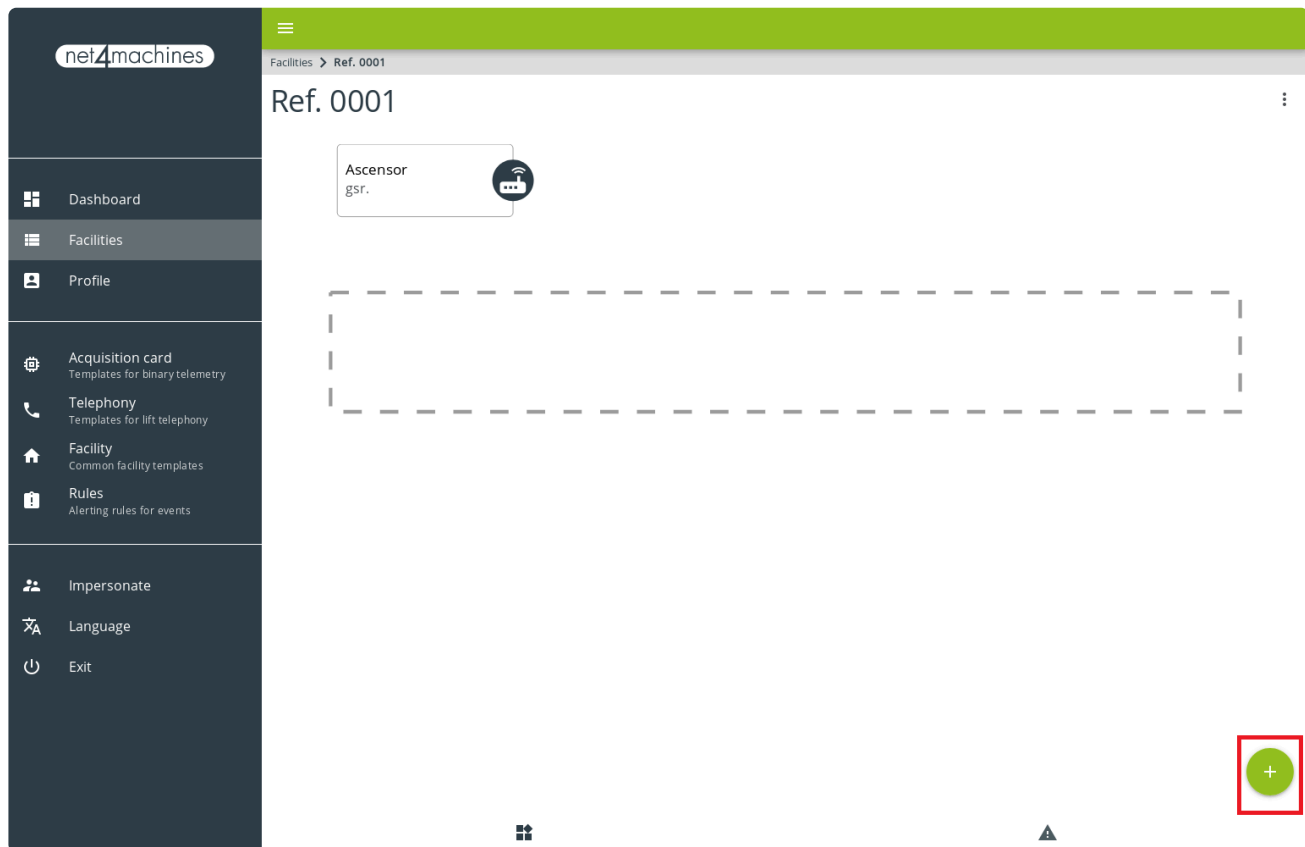


The login page features the 'net4machines' logo at the top. Below it is a white login box containing two input fields: 'email' and 'Password'. A green 'LOG IN' button is positioned below the fields. At the bottom of the box, there is a link that says 'Forgot your password?' with a small lock icon.

2. Locate your facility.



3. Add a new Element.



4. Write the Reference and select Type and Model.

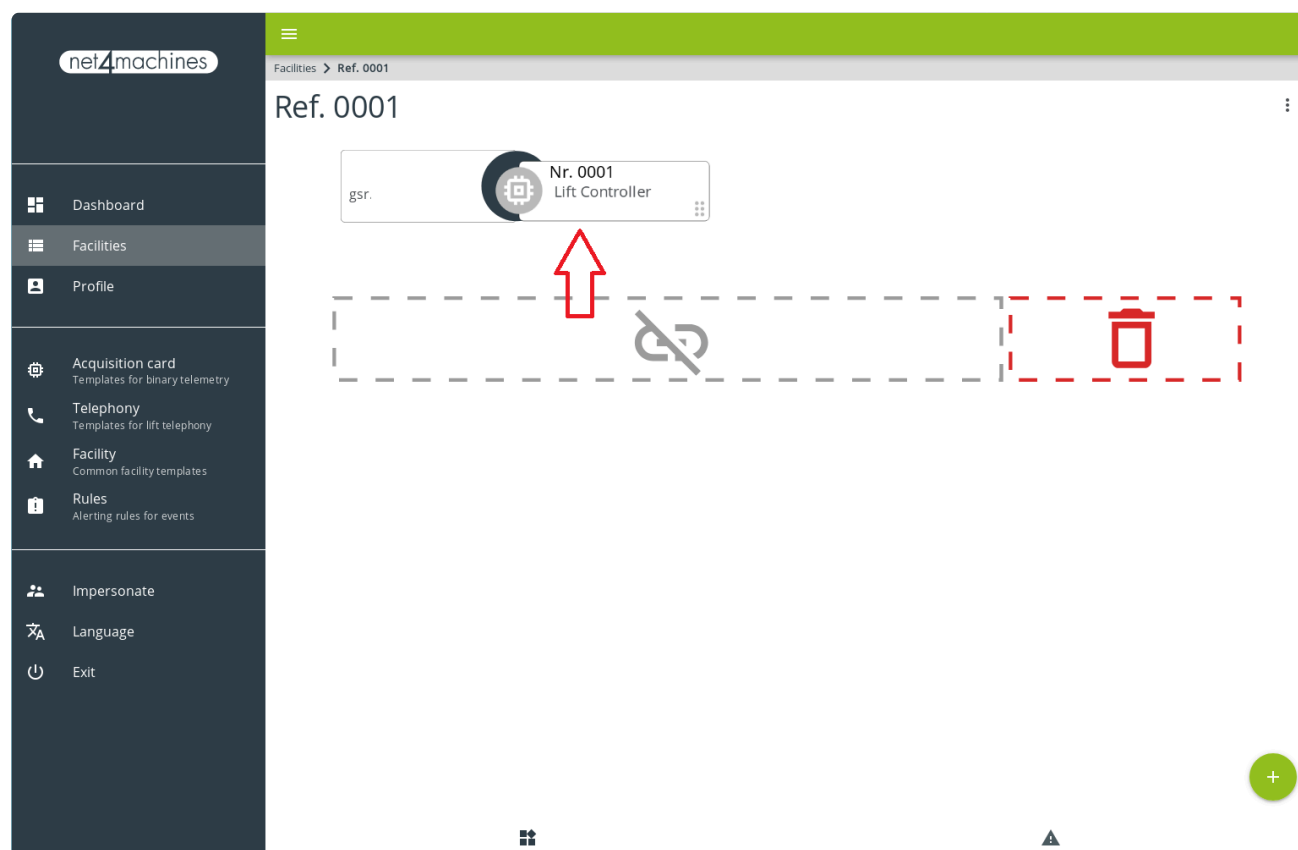
Add element

Reference

Type

CANCEL CREATE

5. Drag and link the controller with your GSR device.



6. Confirm that the element you added is linked correctly, following the instructions shown in the images below, until the item is assigned succesfully.

Assign this element to device Ascensor



Checking connection with device...

Make sure the GSR has
coverage before continuing

CANCEL



Assign this element to device Ascensor



Make sure you have the cable disconnected or
disconnect it now

[Advanced mode](#)

CANCEL



NEXT

Assign this element to device GSR



Getting the device configuration...

CANCEL



Assign this element to device Routeur essai



Please plug in the cable now

Automatically detecting
connection...

If you have connected the cable to the
GSR RS-232 port

[Click here](#)

CANCEL



Assign this element to device GSR



Congratulations, the item has been assigned
successfully!



CLOSE

7. Check if it is assigned successfully by clicking on your device, selecting  and clicking on **LOAD CONS**
OLE.

net4machines

Dashboard

Facilities

Profile

Acquisition card
Templates for binary telemetry

Telephony
Templates for lift telephony

Facility
Common facility templates

Rules
Alerting rules for events

Impersonate

Language

Exit

Facilities > Ref. 0001

Ref. 0001

gsr.

Nr. 0001
Lift Controller

net4machines

Dashboard

Facilities

Profile

Acquisition card
Templates for binary telemetry

Telephony
Templates for lift telephony

Facility
Common facility templates

Rules
Alerting rules for events

Impersonate

Language

Exit

Facilities > Ref. 0001 > Nr. 0001

Nr. 0001

Lift Controller

Obelisk device associated

gsr.

Rules

No rule has been added

net4machines

Dashboard

Facilities

Profile

Acquisition card
Templates for binary telemetry

Telephony
Templates for lift telephony

Facility
Common facility templates

Rules
Alerting rules for events

Impersonate

Language

Exit

Facilities > Ref. 0001 > Nr. 0001

Nr. 0001

Lift Controller

LOAD CONSOLE

3.3. Carlos Silva

1. Log in to the **Net4Machines Smart Control** platform.

URL: <https://manager.net4machines.com/>



The logo for Nayar Systems, featuring a stylized green 'N' inside a square frame, followed by the text 'NAYAR SYSTEMS' in a bold, sans-serif font.

Email

Password

LOGIN

[Recover password](#)

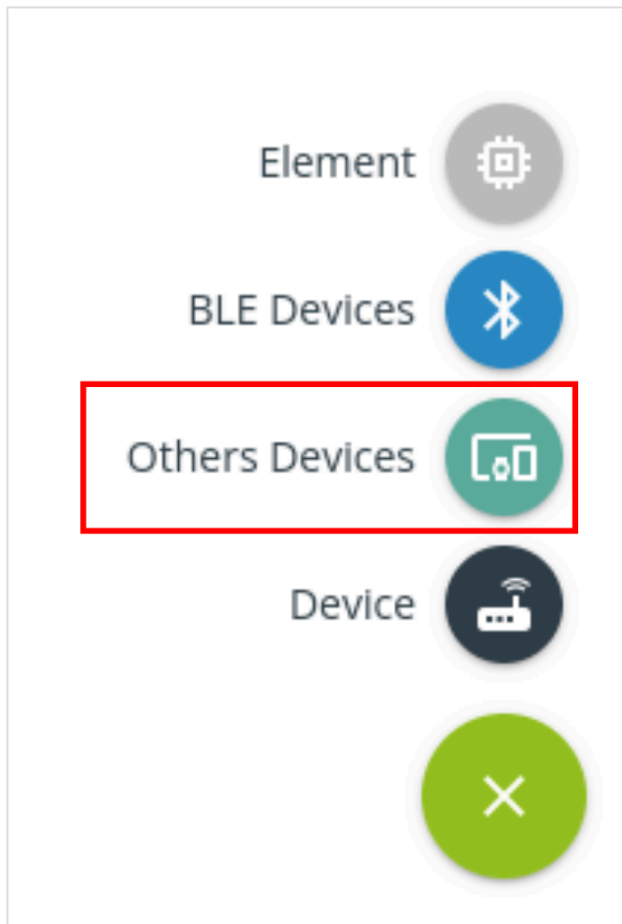
You will find the following overview:

The screenshot shows the net4machines dashboard. The left sidebar contains a menu with the following items: Dashboard, Facilities (highlighted with a red box), Profile, Acquisition card (Templates for binary telemetry), Telephony (Templates for lift telephony), Facility (Common facility templates), Rules (Alerting rules for events), Language, and Exit. The main content area displays an 'Elements summary' donut chart and an 'Alerts status summary' bar chart. The donut chart shows the following data: Lift Controller (58%), Otis 2000 (25%), Edel (25%), Rekoba (12%), Arca 2 (12%), Binary acquisition (15%), and Advertism (8%). The bar chart shows a series of green bars representing alert counts over time. A red box highlights the 'Facilities' section, which includes a search bar and a list of facilities, with 'Ref. 0001' visible.

In Facilities, search for the facility or GSR you want.

2. Once inside your facility, add Others Devices from the option at the bottom right of the screen:

The screenshot shows the net4machines interface for a specific facility, 'Ref. 0001'. The left sidebar is the same as in the previous screenshot. The main content area displays the facility name 'Ref. 0001' and a list of devices, including 'Ascensor gsr.' with a wireless signal icon. Below the device list is a large dashed rectangular box. At the bottom right of the screen, a green circular button with a white '+' sign is highlighted with a red box, indicating the option to add new devices.



3. Write the Reference and select Carlos Silva in Type. Write the Lift access code and the ARM SN.

Add others device

Reference

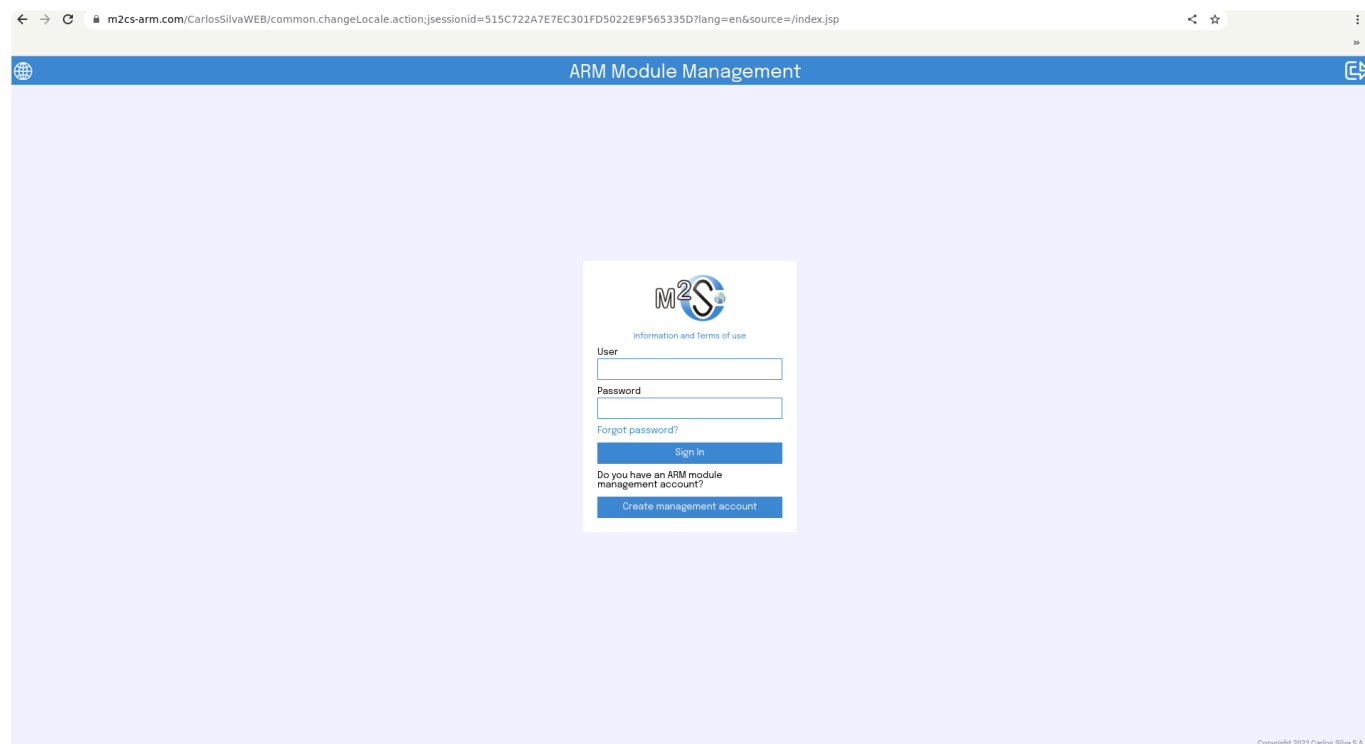
Device type
Carlos Silva ▼

Lift access code

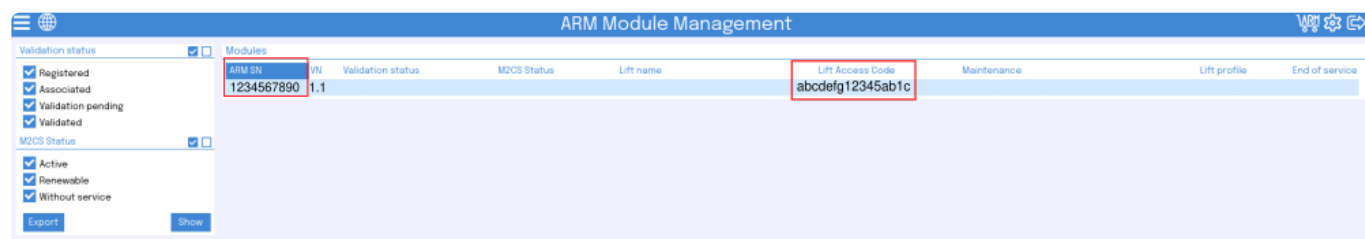
ARM SN

CANCEL CREATE

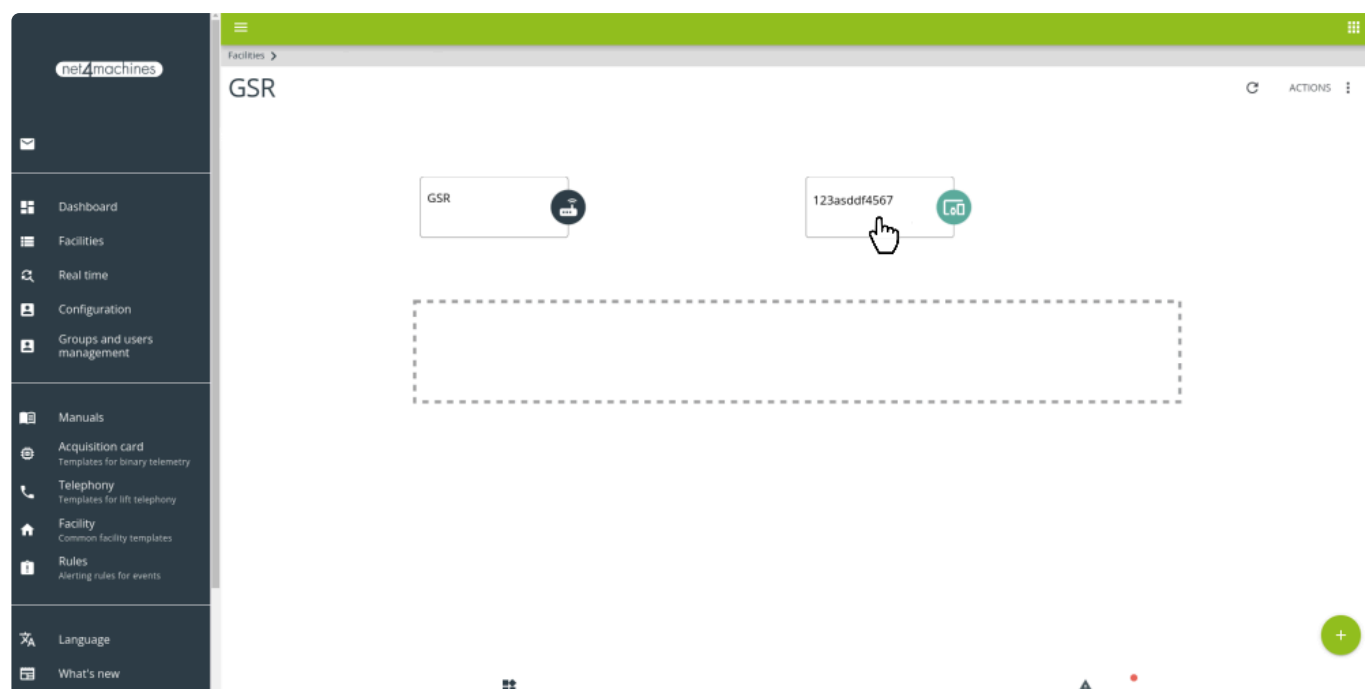
To know the Lift access code and the ARM SN, log in to the following page.
URL: <https://www.m2cs-arm.com/CarlosSilvaWEB/index.jsp>



Once inside, locate the Lift access code and the ARM SN :



4. When Others Devices is created, click on it.



The console is now accessible

Facilities > GSR >

ACTIONS

TEST

HIDRA Crono

City

Street

N

Stair

Car

ZIP

ARM SN

CPU SN

Updated

Last backup

Last restore

M2CS service till

Data used

0.0%

M2CS Alert

Without alerts

Status

NOT CONNECTED

Connection

Verify

Disconnected

- ARM module not connected right now

- Checking connection

- Warning: It is not possible to download events

Console

Monitor

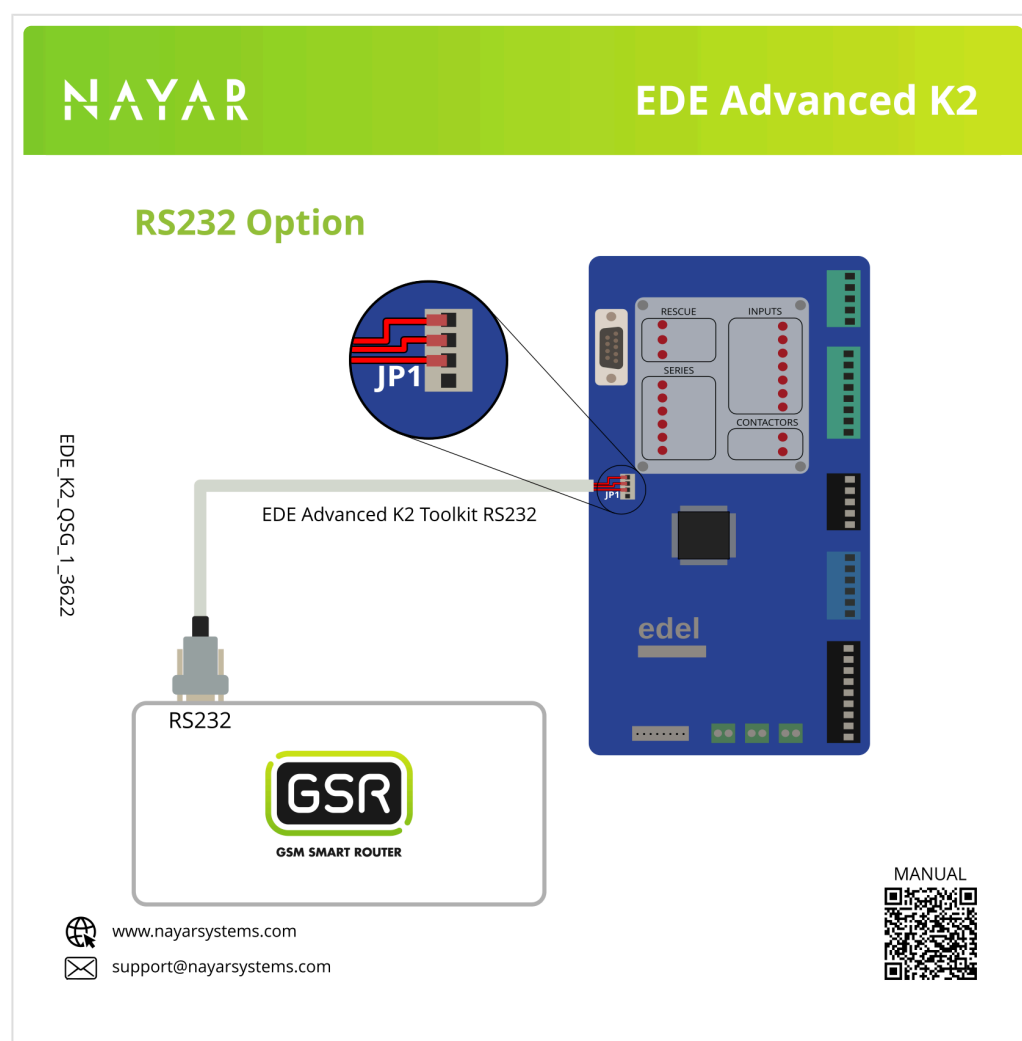
Events

Alerts

4. Quick Start Guides

Edel Advanced K2 RS232 Option	Edel Advanced K2 USB Option	Fuji Frenic LM2A RS232 Option
Fuji Frenic LM2A RS232 Option	KONE Monospace Machine room-less	KONE Monospace Machine room
STEP AS380	Schindler 3300	OTIS RS232 Wires Option
OTIS USB Wires Option	OTIS RS232 Option	Hitachi MCUB
Mitsubishi Nexway	MP	Monarch Nice 3000
Orona Arca 2	Rekoba EK66/EKM68 RS232 Option	Rekoba EK66/EKM68 USB Option
Thyssen CMC3	Sodimas qi touch	SJEC

Edel Advanced K2 RS232 Option



Edel Advanced K2 USB Option

NAYAR

EDE Advanced K2

USB Option

EDE_K2_QSG_1_3622

JP1

EDE Advanced K2 Toolkit RS232

USB

GSR

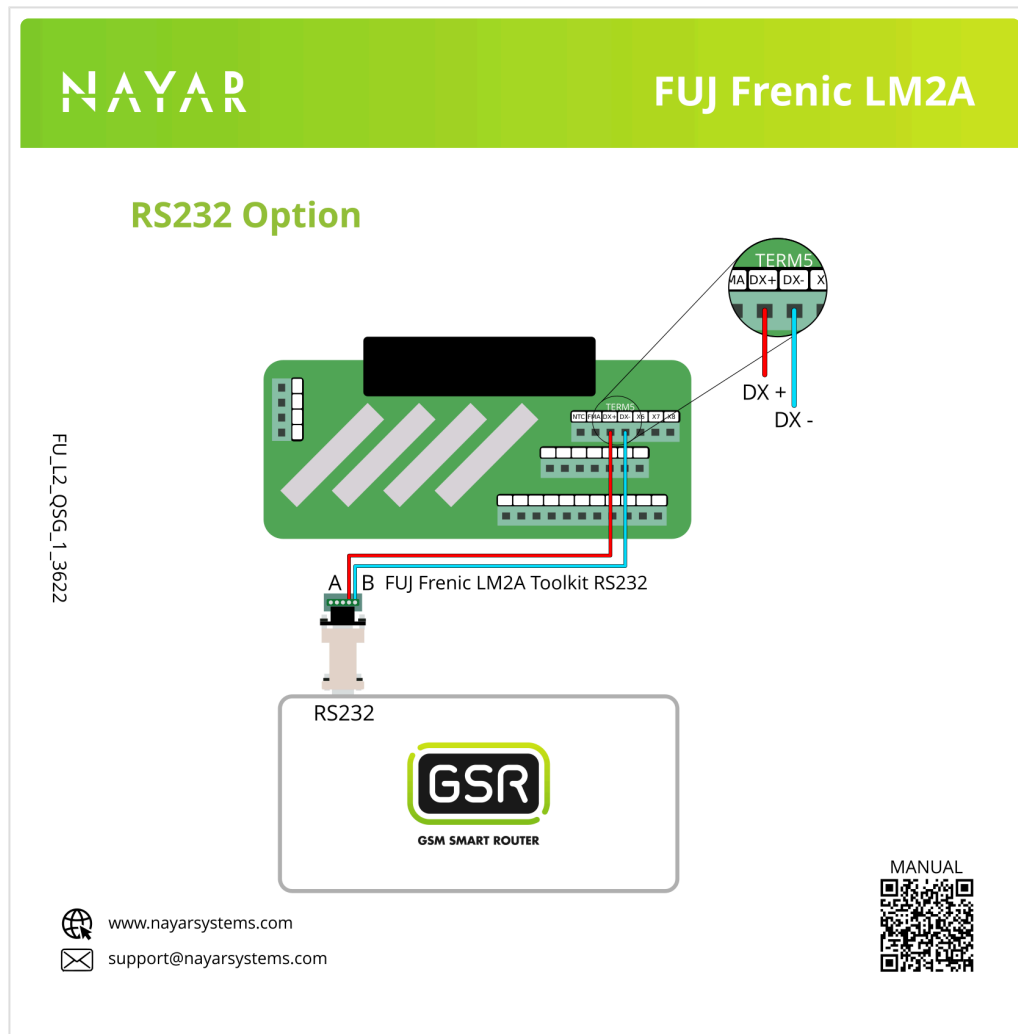
GSM SMART ROUTER

MANUAL

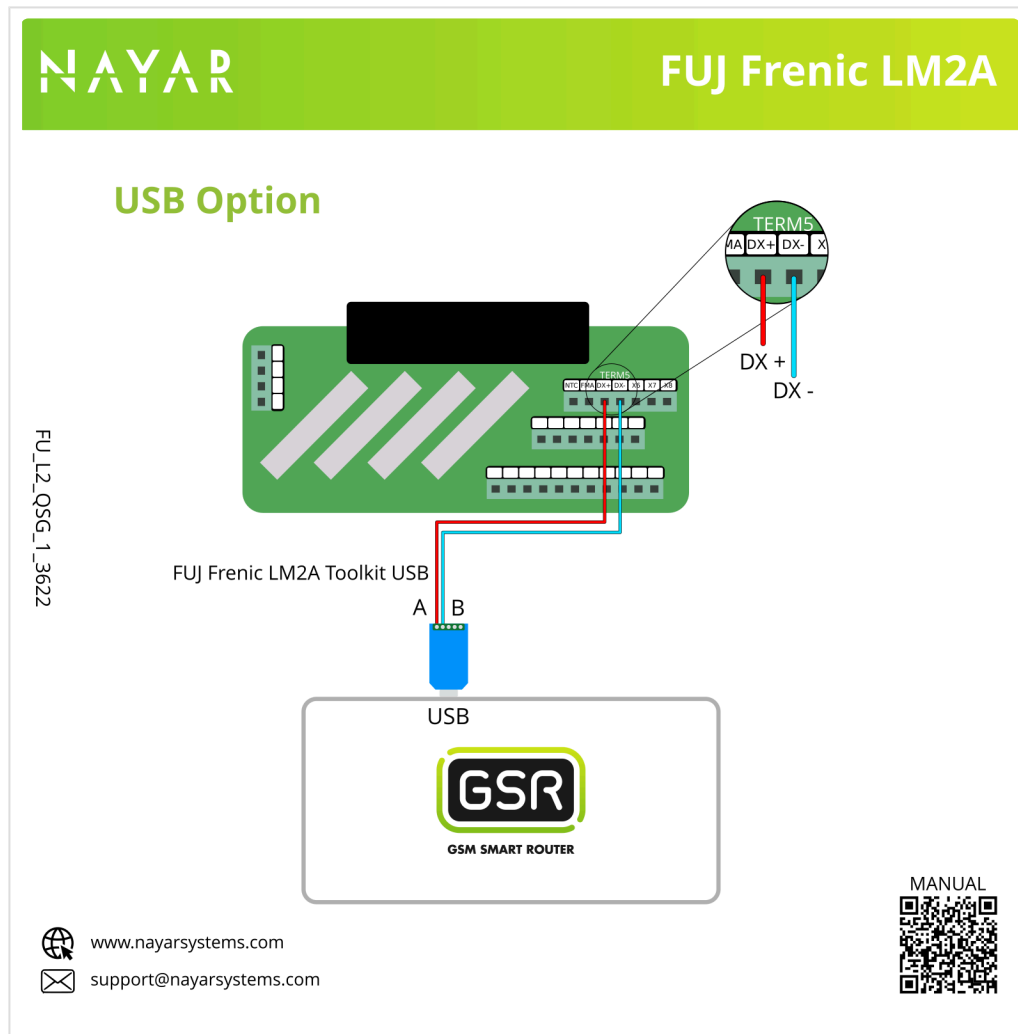


Fuji Frenic LM2A RS232 Option

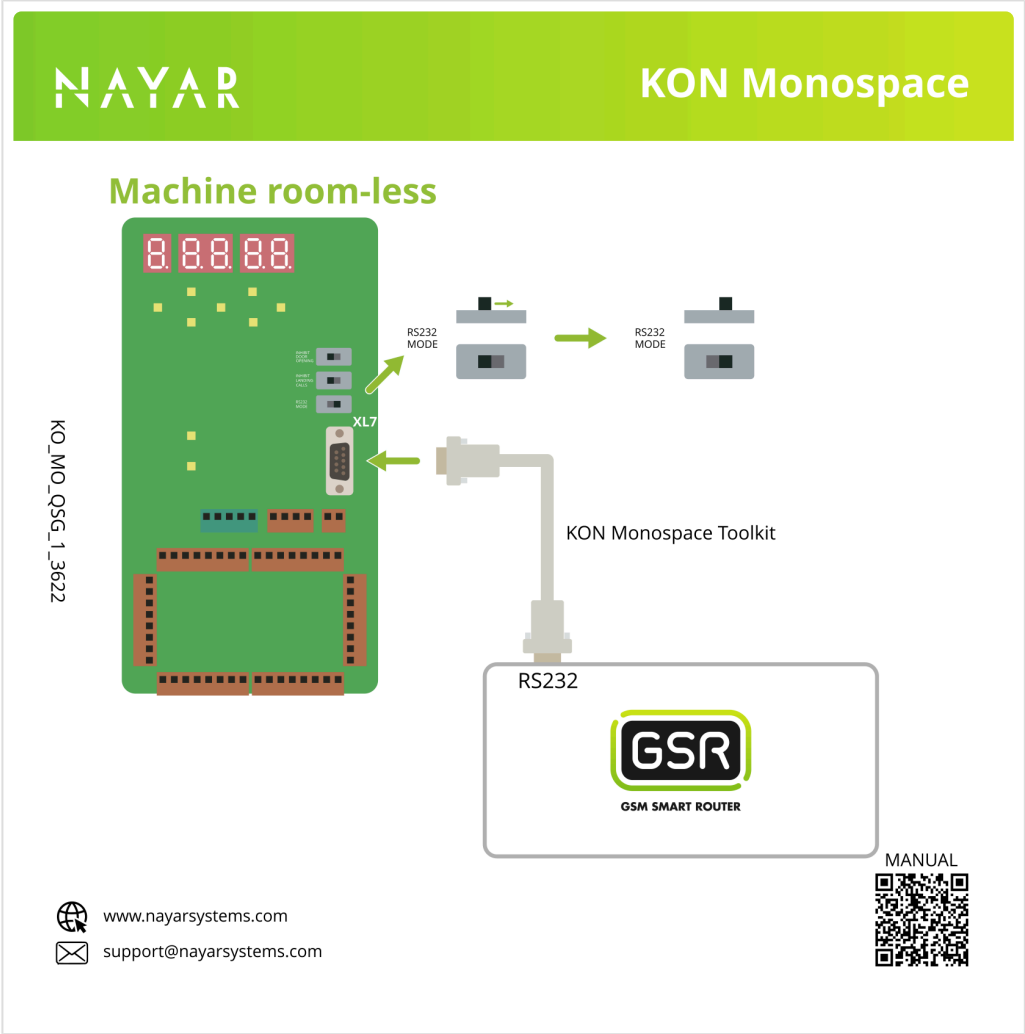
Page 139 of 158



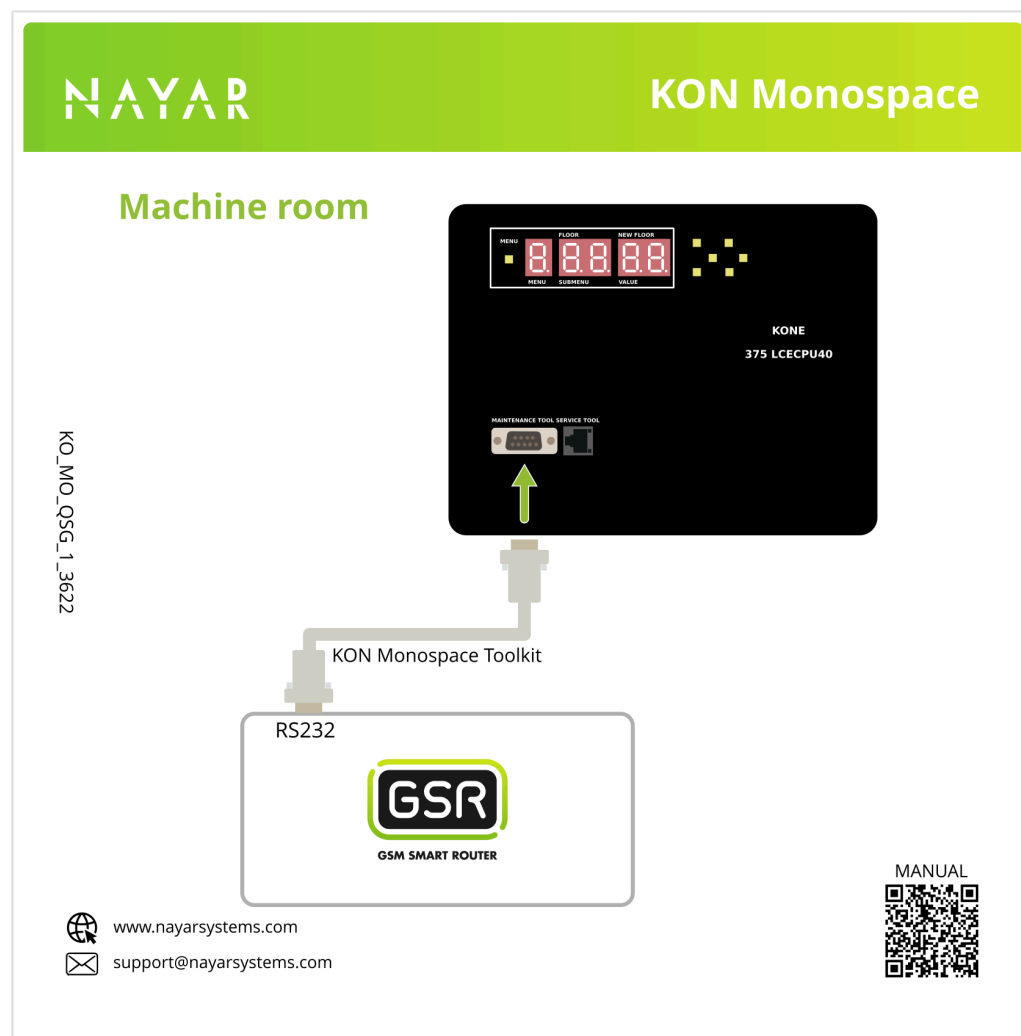
Fuji Frenic LM2A RS232 Option



KONE Monospace Machine room-less



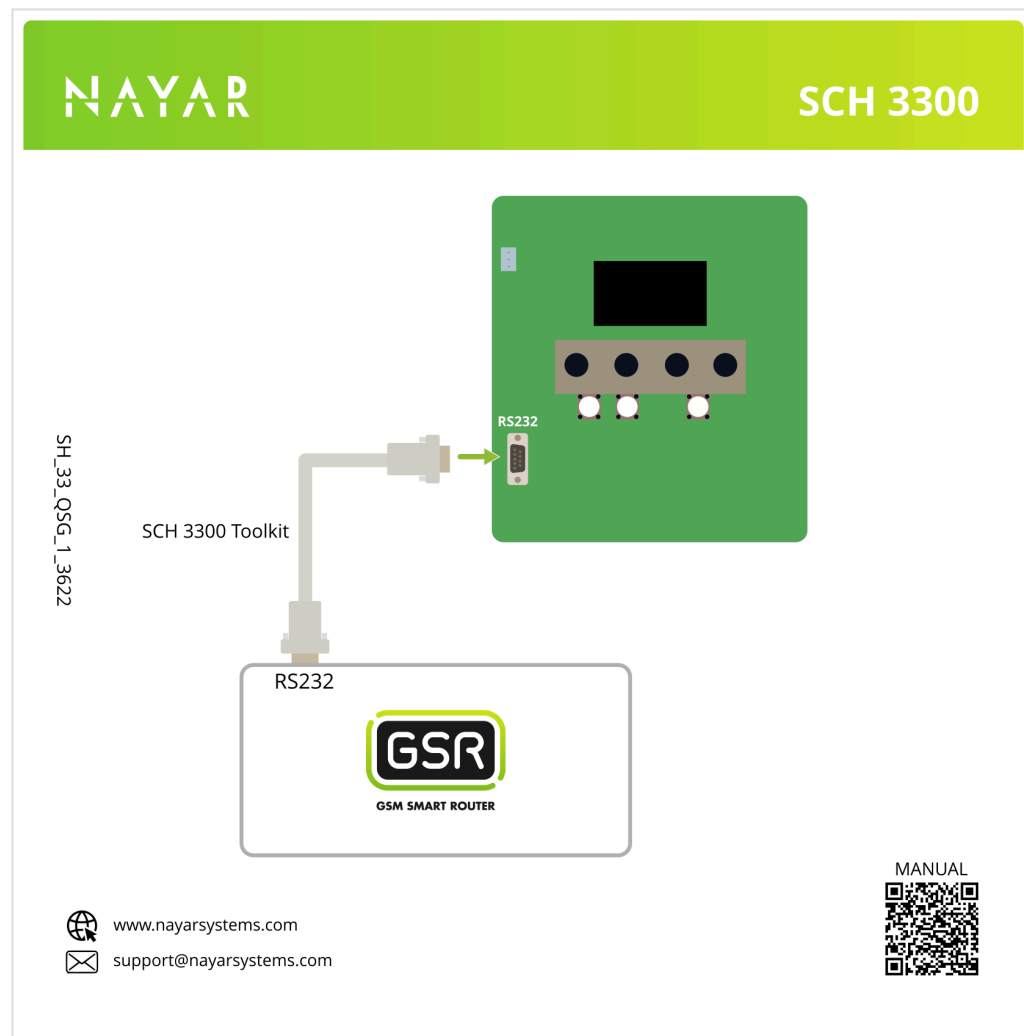
KONE Monospace Machine room



STEP AS380



Schindler 3300

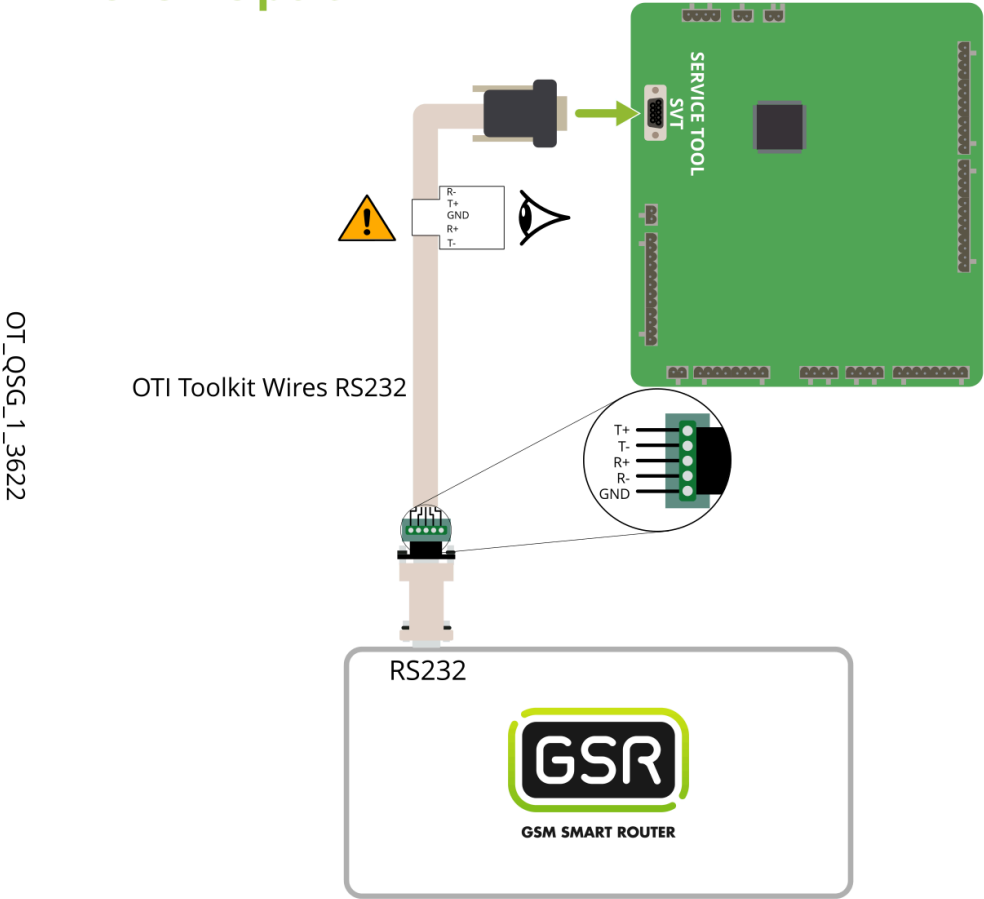


OTIS RS232 Wires Option

NAVAR

OTI

RS232 Option



www.nayarsystems.com



support@nayarsystems.com

MANUAL



OTIS USB Wires Option

NAYAR

OTI

USB Option

OTI Toolkit Wires USB

OT_QSG_1_3622

USB

GSR

GSM SMART ROUTER

WARNING

R+

T+

GND

R+

T+

Service Tool

SVT

T+

T-

R+

R-

GND

MANUAL





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support@nayarsystems.com

OTIS RS232 Option

NAYAR

OTI

RS232 Option 2

OTI Toolkit RS232

OT_QSG_1_3622

RS232 USB

GSR

GSM SMART ROUTER

SERVICE TOOL

S/T

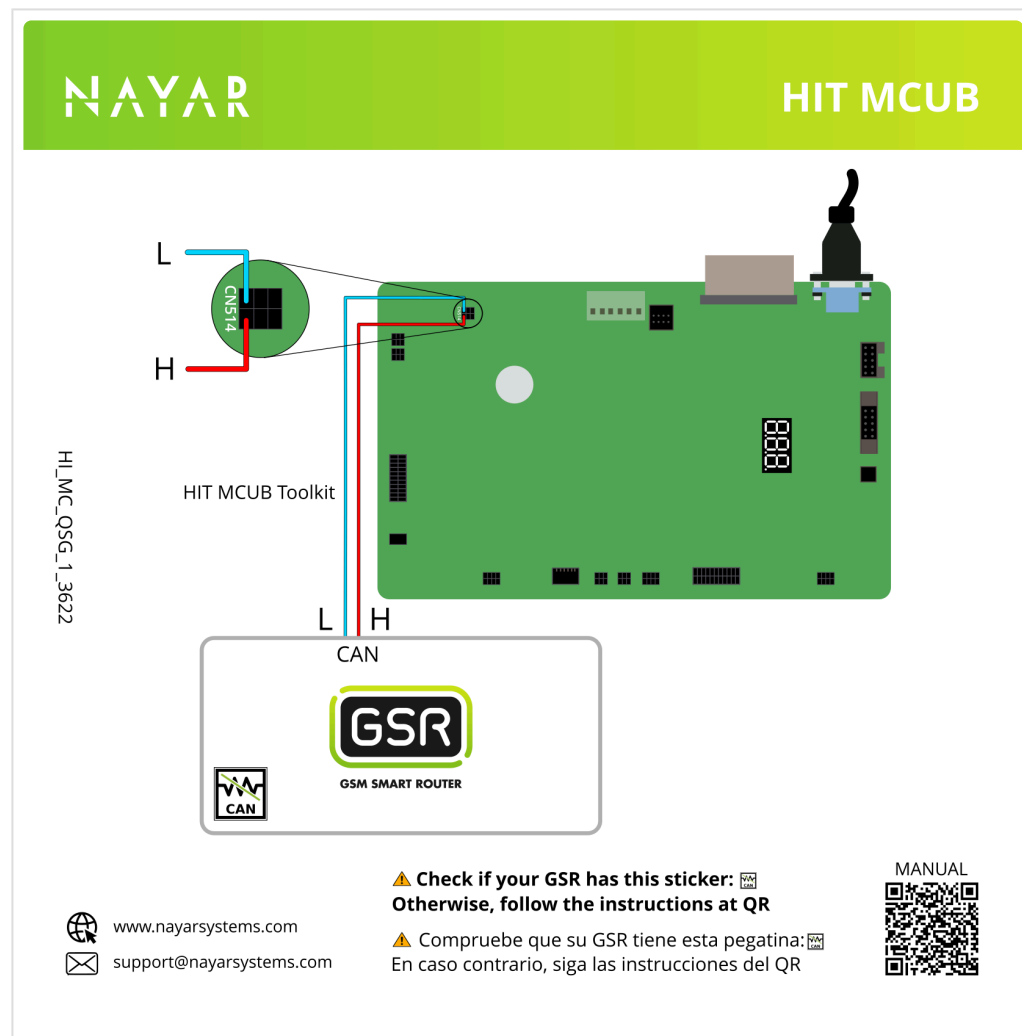
MANUAL



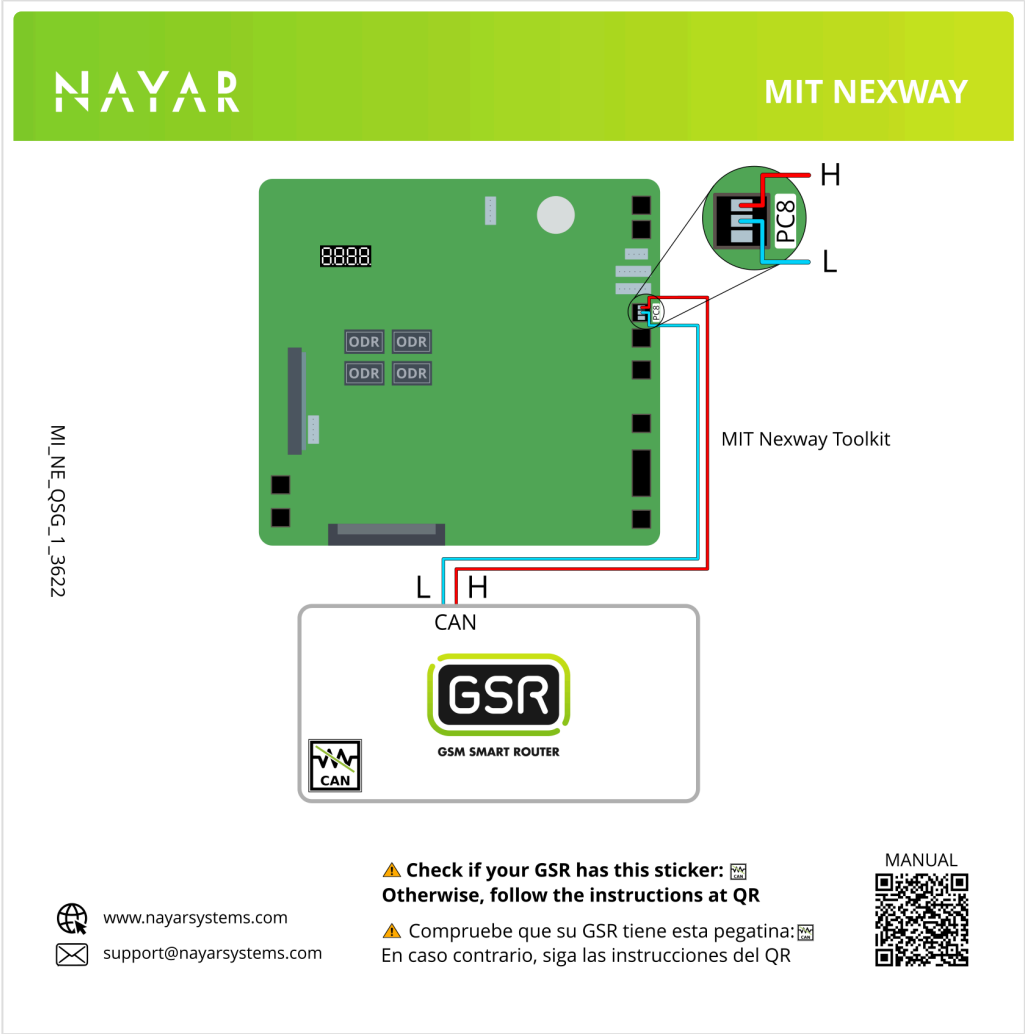
 www.nayarsystems.com

 support@nayarsystems.com

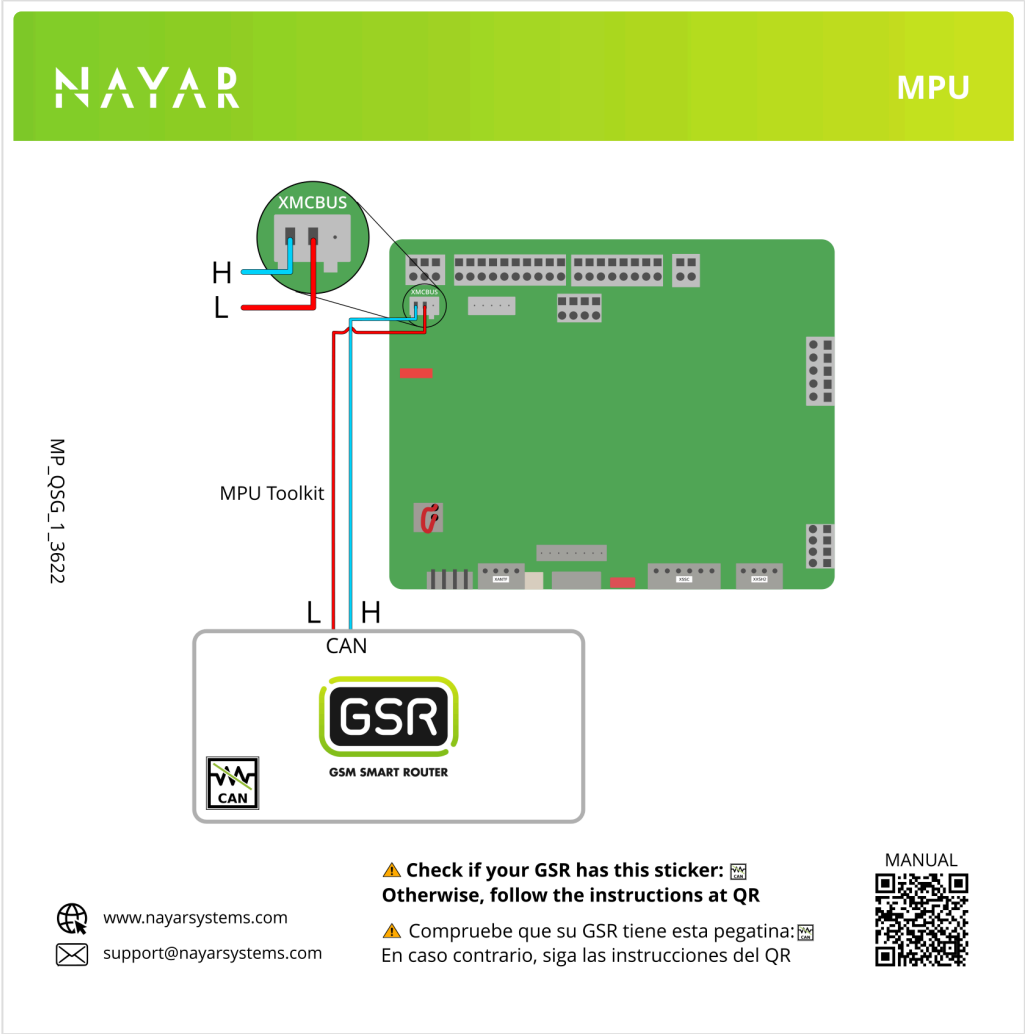
Hitachi MCUB



Mitsubishi Nexway



MP



Monarch Nice 3000

NAYAR

MON Nice 3000

MO_30_QSG_3622

MON Nice 300 Toolkit

GSR
GSM SMART ROUTER

www.nayarsystems.com

support@nayarsystems.com

⚠ Check if your GSR has this sticker:

Otherwise, follow the instructions at QR

⚠ Compruebe que su GSR tiene esta pegatina:

En caso contrario, siga las instrucciones del QR

MANUAL

Orona Arca 2

NAYAR

ORO Arca 2

OR_A2_QSG_1_3622

J28

24V

C_H

C_L

0V

H

L

ORO Arca 2 Toolkit

L

H

CAN

GSR

GSM SMART ROUTER

CAN

⚠️ Check if your GSR has this sticker: 

Otherwise, follow the instructions at QR

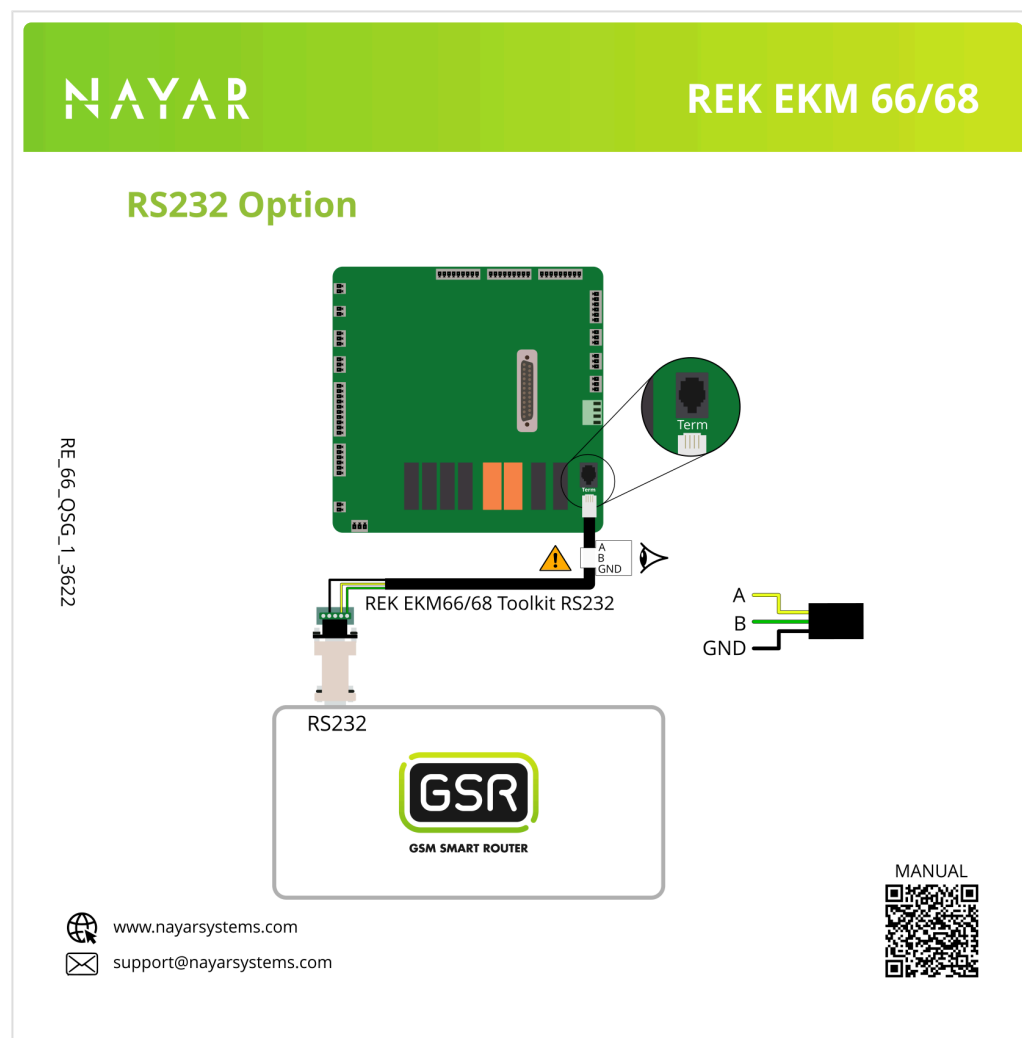
⚠️ Compruebe que su GSR tiene esta pegatina: 

En caso contrario, siga las instrucciones del QR

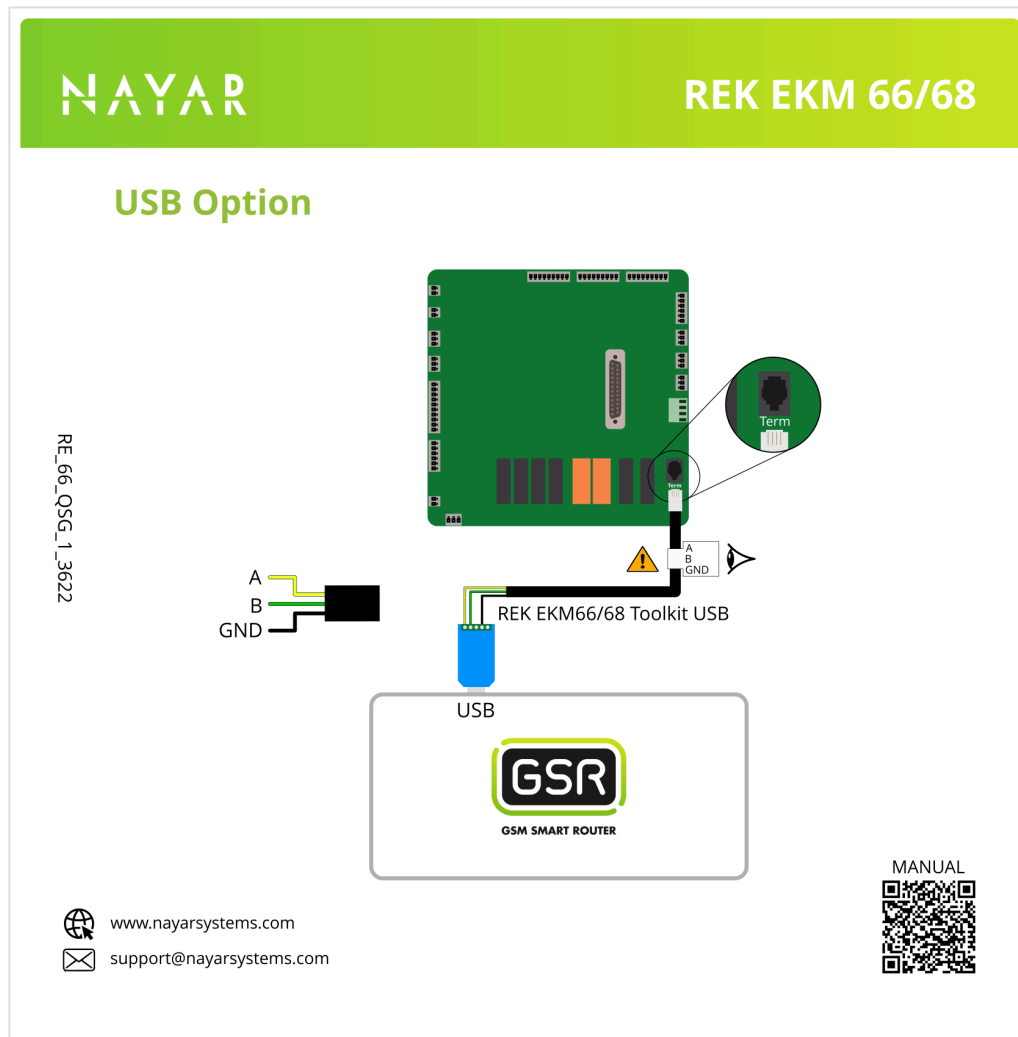
MANUAL



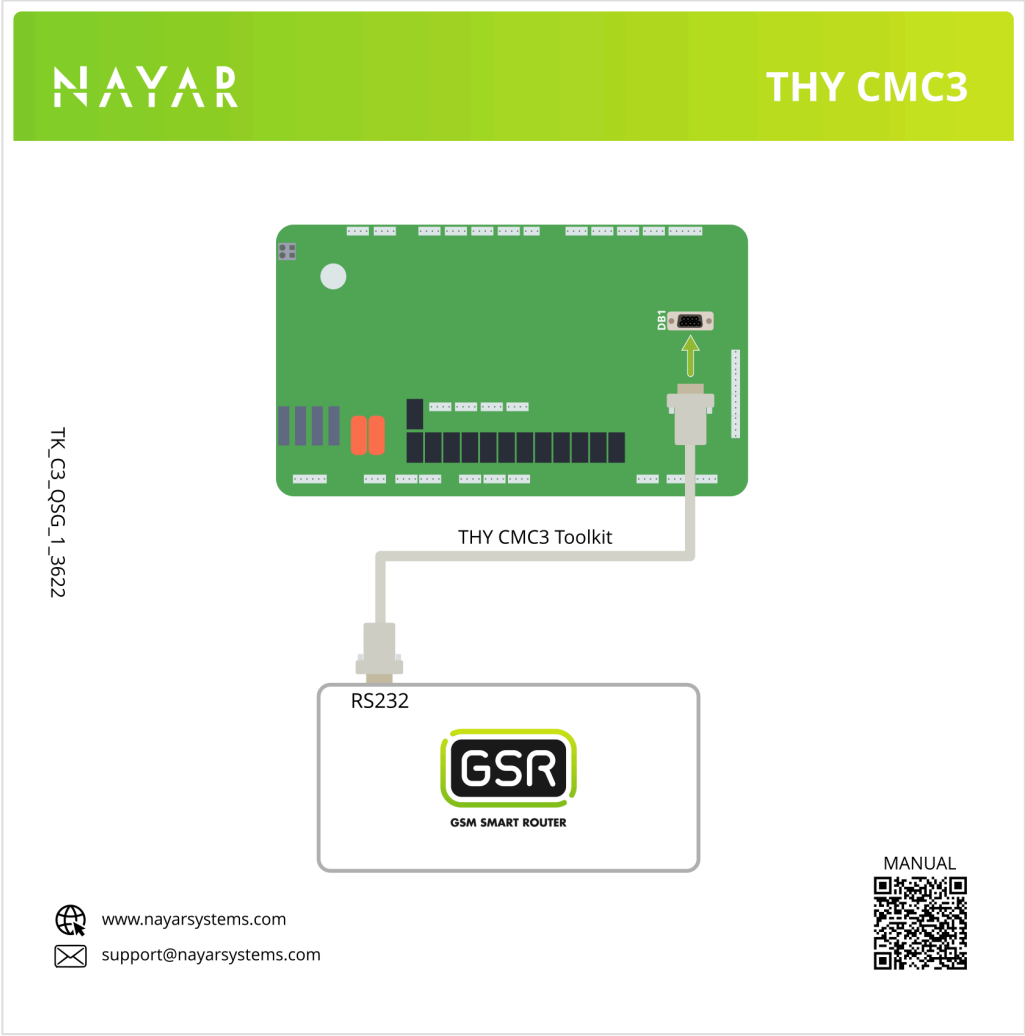
Rekoba EK66/EKM68 RS232 Option



Rekoba EK66/EKM68 USB Option



Thyssen CMC3



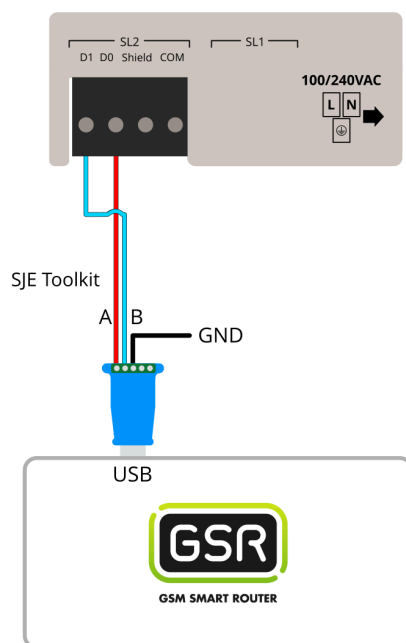
Sodimas qi touch

**SJEC**

NAYAR

SJE

SJ_ES_QSG_1_3622

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MANUAL

