



Installations- und Konfigurationsanleitung — eCharge Hardy Barth cPH2 2T22

Version:2023.3.1

Table of Contents

1. Introduction	2
1.1. Legal provisions	2
1.2. Qualification of the installing electrician	2
1.3. Symbols used	2
1.4. Darstellungskonventionen	2
2. Produktbeschreibung	3
2.1. Scope of delivery	3
2.2. Prerequisites	3
3. Commissioning	4
3.1. Connecting the meter	5
3.2. Configuration	6
3.3. RFID-Autorisierung	7
3.4. Updating the charging station firmware	13
4. Install FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation	15
4.1. Direct Installation	15
4.1.1. Redeem already registered license key	18
4.1.2. Redeeming a new license key	19
4.2. Edit FEMS app	23
5. Contact	24
6. Verzeichnisse	25
6.1. Abbildungsverzeichnis	25

1. Introduction

1. Introduction

1.1. Legal provisions

The information contained in these documents is the property of FENECON GmbH. Publication, in whole or in part, requires the written consent of FENECON GmbH.

Subject to changes and printing errors!

1.2. Qualification of the installing electrician

A qualified electrician is a person who has the necessary experience and training:

- Setting up, switching on, switching off, disconnecting, short-circuiting and repairing circuits and devices
- Standard maintenance and use of protective devices in accordance with current safety standards
- First aid/emergency care
- Current knowledge of local regulations, standards and guidelines

1.3. Symbols used

Before reading the manual, you should familiarize yourself with the different types of safety warnings. You should also familiarize yourself with the importance of the safety warnings.

1.4. Darstellungskonventionen

	This symbol indicates an imminent danger. If this danger is not avoided, it can lead to death or serious injury.
	This symbol indicates a potentially dangerous situation. If this dangerous situation is not avoided, it may result in minor or moderate injury.
	This symbol indicates a warning. Failure to observe this warning may result in damage and/or destruction of the system.
	This symbol indicates a note. It is recommended that the note be observed.

Table 1. Darstellungskonventionen

2. Produktbeschreibung

2.1. Scope of delivery

Prüfen Sie, nachdem Sie die Lieferung erhalten haben, ob alle Bestandteile mitgeliefert wurden. Prüfen Sie den Lieferumfang auf Beschädigungen. Sollte etwas fehlen oder beschädigt sein, wenden Sie sich bitte sofort an den Lieferanten. Folgende Komponenten sind in der Lieferung enthalten:

- eCharge Hardy Barth cPH2 2T22 Ladestation
- 2 x 11 kW integriertes 4-Meter-Spiralkabel mit Typ-2 Stecker (IEC 62196-2)
- Installations- und Konfigurationsanleitung — Typ-2-Ladestation eCharge Hardy Barth cPH2 2T22
- Handbuch — Ladestation cPH2

2.2. Prerequisites

Für den Einsatz der Ladestation ist erforderlich:

- FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation



Die »FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation« ist nicht im Lieferumfang enthalten. Diese muss — falls noch nicht vorhanden — zusätzlich erworben werden.

3. Commissioning

3. Commissioning



Please follow the instructions in the "Installation and Operating Instructions cPH2 Charging Station" to install the Hardy-Barth charging station.
[Installation and operating instructions cPH2 charging station](#)



The "Configuration Manual" for the Salia board should also be read and internalized:
[Configuration manual — Salia board](#)



This quick guide refers to the original user manuals.
 It serves as an installation aid for qualified electricians in the area of communication interfaces, but is not a substitute for studying the user manuals.

Once the charging station has been installed, it must be connected to the customer network via the two network interfaces (LAN) of the two Salia boards (Master, Slave).

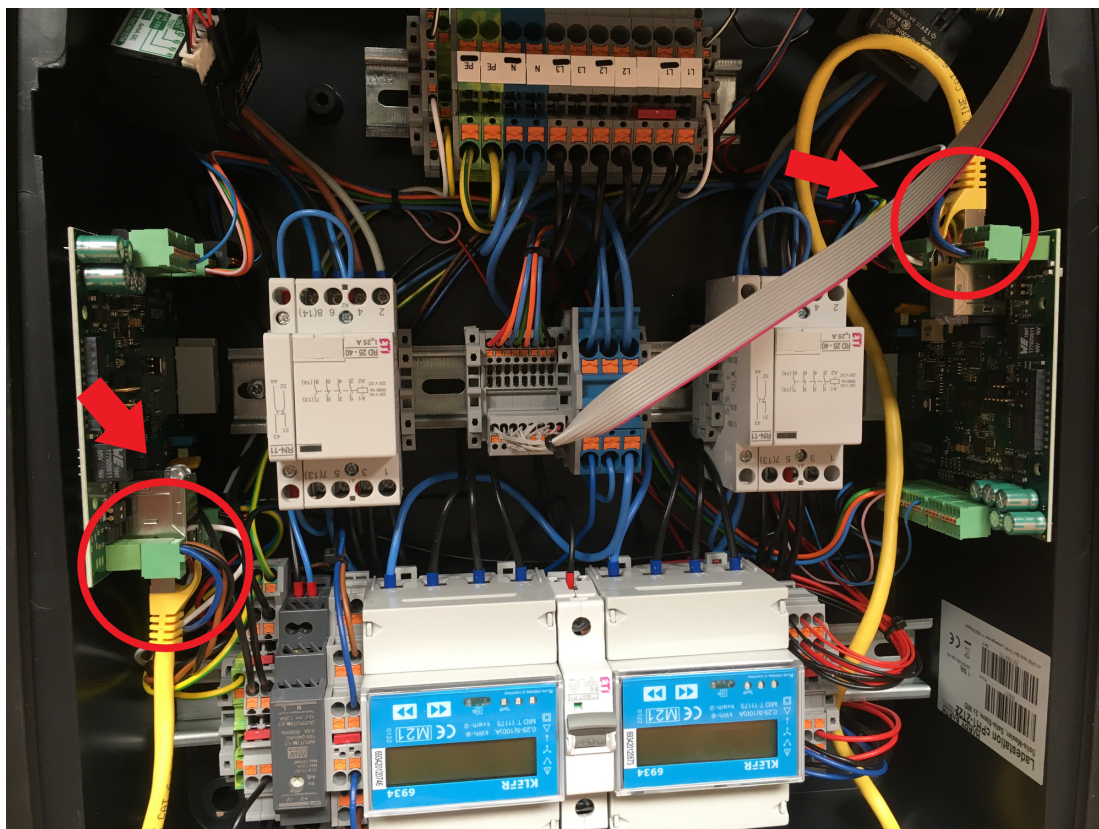


Figure 1. Network interfaces (LAN) — Salia board



On delivery, the two network interfaces are connected to each other with a LAN cable. This cable must be disconnected so that each board can be connected separately to the customer network.

3.1. Connecting the meter

With the cPH2 2T22 model, the two necessary meters are already installed in the charging station. No further work is necessary here.

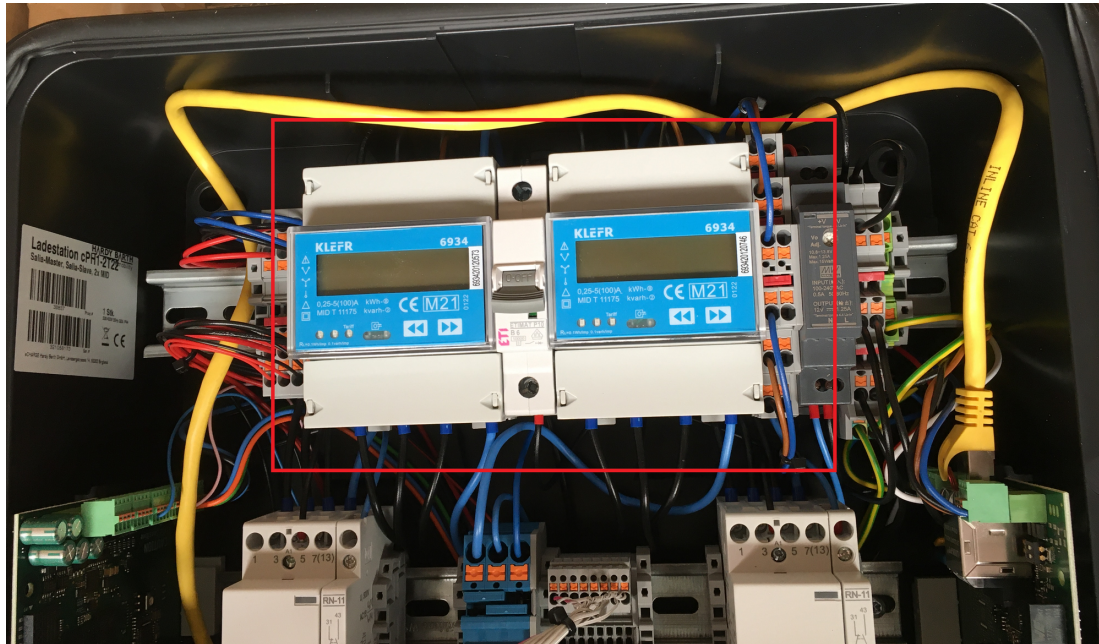


Figure 2. Meter



From our experience, the meter plug connections on the circuit boards are sometimes a little loose. Make sure that *both* plugs are connected firmly.

3.2. Configuration

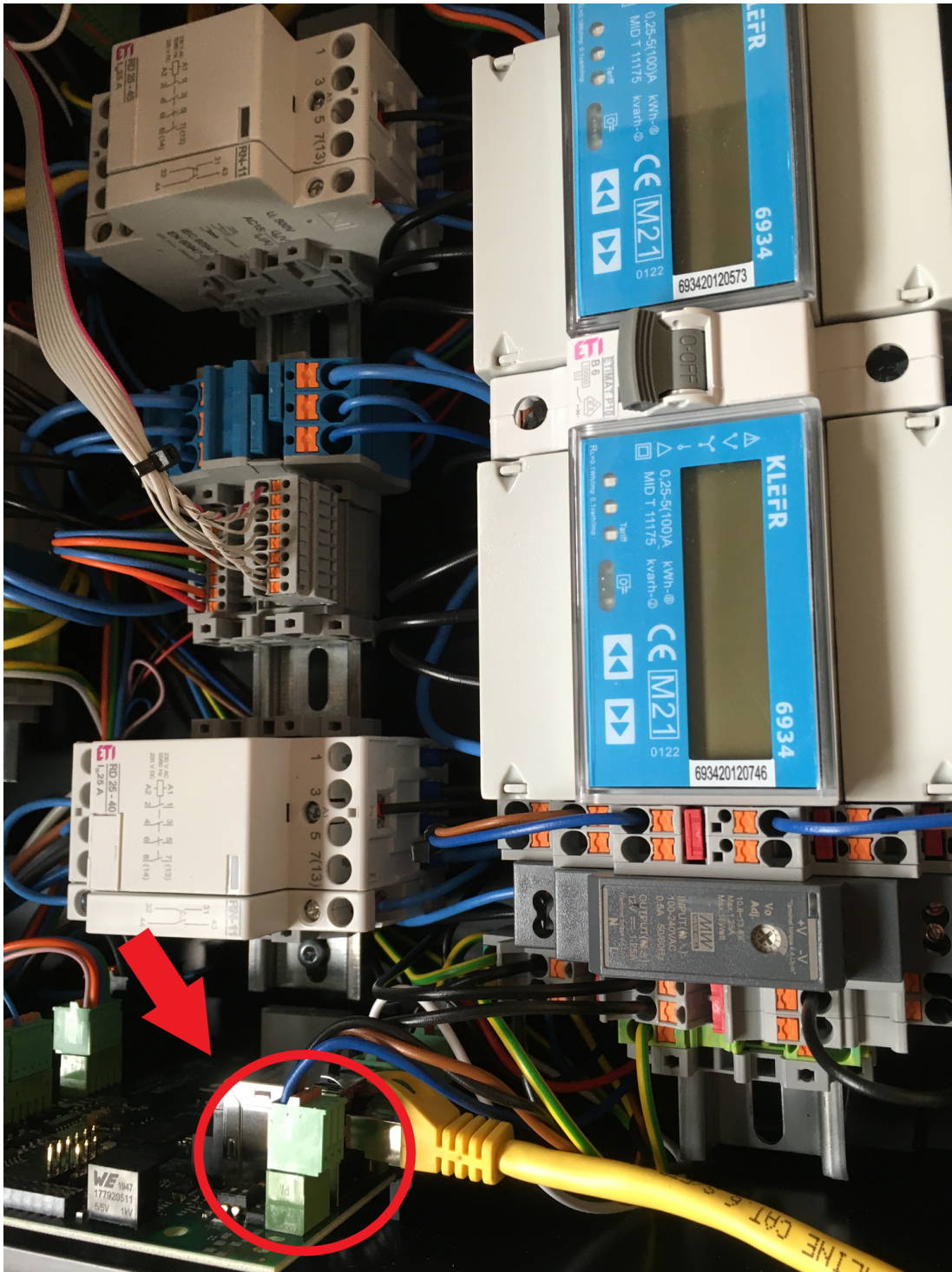


Figure 3. Meter plug connection

3.2. Configuration

The cPH2 2T22 model is already preconfigured. No further work is required here.

By default, the first charging point of the charging station can be reached at the IP address **192.168.25.30**, the second charging point at the IP address **192.168.25.31** and so on.

We recommend that you always use the latest firmware to ensure that all the latest functions of the charging station can be used.

3.3. RFID-Autorisierung

Wir arbeiten aktuell an der Kompatibilität mit der Hardy Barth RFID-Autorisierung.



Bitte beachten Sie die nachstehenden Software Voraussetzungen zur RFID-Autorisierung Ihrer Hardy Barth eCharger cPH2.

Kompatibilität mit FENECON-Energiemanagementsystem	
Hardy Barth eCharger	Erfordert Software-Version 2.2.0 oder neuer.

Um die RFID-Autorisierung testweise zu aktivieren, bitten wir Sie die nachstehenden Schritte zu befolgen.

1. Öffnen Sie hierzu die SALIA Web-Oberfläche.

3.3. RFID-Autorisierung



Figure 4. SALIA Web-Oberfläche

- Gehen Sie auf den Reiter *Configuration*.

Salia PLCC Slave 2310006

salia -

fenecon

Home

Chargelog

RFID Tags

Firmware

Configuration

System configuration

Global options

Wallbox type

☒ Cable
 ☐ Socket

Timezone

Europe/Berlin

Location/Name

Wallbox location

Auth. Mode

RFID Auth.

Key switch type

None

Min./Max. current

6 - 16 A

External control

☐ Enable Heartbeat (NOT for ocpp)

Mains options

Mains type

IP address

e.g. 192.168.99.99

Serial

e.g. 12345678

Mains fuse

50 A

Overcurrent/Eco

☐ Stop charging

Peak shave (optional)

0 W

ECO reference

0 W

OCPP options

OCPP

☐ Enable

URI/CPID

ws://

Verify CERT

☐ Enable

APN Name

e.g. egv2.a1.net

APN User

ppp@A1plus.at

APN Pass

PPP

Network options

DHCP

☒ Enable

IP address

e.g. 192.168.99.99

Subnetmask

e.g. 255.255.255.0

Gateway

e.g. 192.168.99.1

DNS

e.g. 192.168.99.1

NTP

time1.google.com

Save and reboot

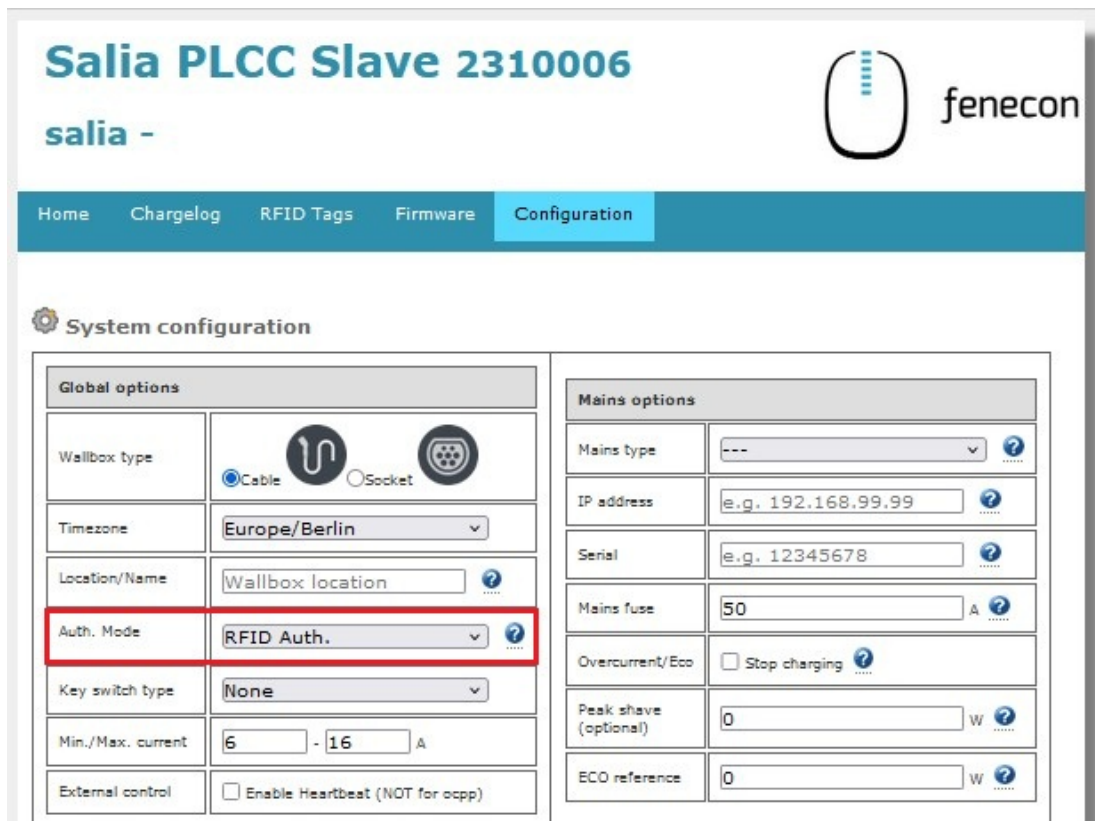
Copyright © 2018 eCHARGE GmbH

https://www.echarge.de/

Figure 5. Network settings

- Setzen Sie bei dem Abschnitt *Global Options* den Authorization Mode von Free Charging auf RFID Authorization.

3.3. RFID-Autorisierung



Salia PLCC Slave 2310006

salia - fenecon

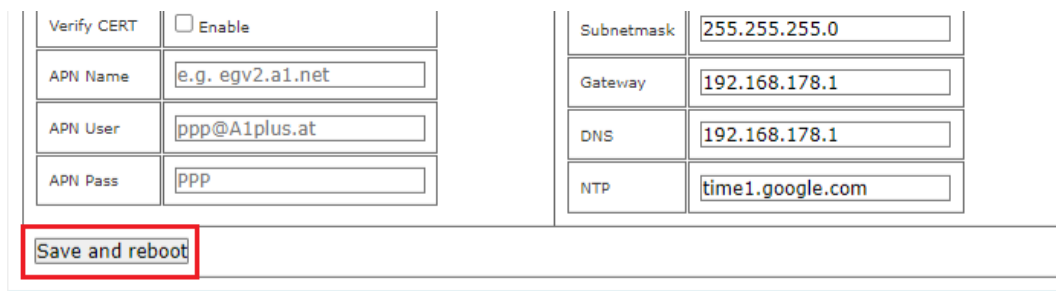
Home ChargeLog RFID Tags Firmware **Configuration**

System configuration

Global options		Mains options	
Wallbox type	☒ Cable ☐ Socket	Mains type	---
Timezone	Europe/Berlin	IP address	e.g. 192.168.99.99
Location/Name	Wallbox location	Serial	e.g. 12345678
Auth. Mode	RFID Auth.	Mains fuse	50 A
Key switch type	None	Overcurrent/Eco	☐ Stop charging
Min./Max. current	6 - 16 A	Peak shave (optional)	0 W
External control	☐ Enable Heartbeat (NOT for ocpp)	ECO reference	0 W

Figure 6. Autorisierung ändern

- Um die Konfiguration abzuschließen klicken Sie bitte auf **Save and Reboot**.



Verify CERT	☐ Enable	Subnetmask	255.255.255.0
APN Name	e.g. egv2.a1.net	Gateway	192.168.178.1
APN User	ppp@A1plus.at	DNS	192.168.178.1
APN Pass	PPP	NTP	time1.google.com
Save and reboot			

Figure 7. Save and reboot

- Auf der Startseite Ihrer SALIA Web-Oberfläche sollte nun das Symbol für RFID-Autorisierung eingeblendet werden.

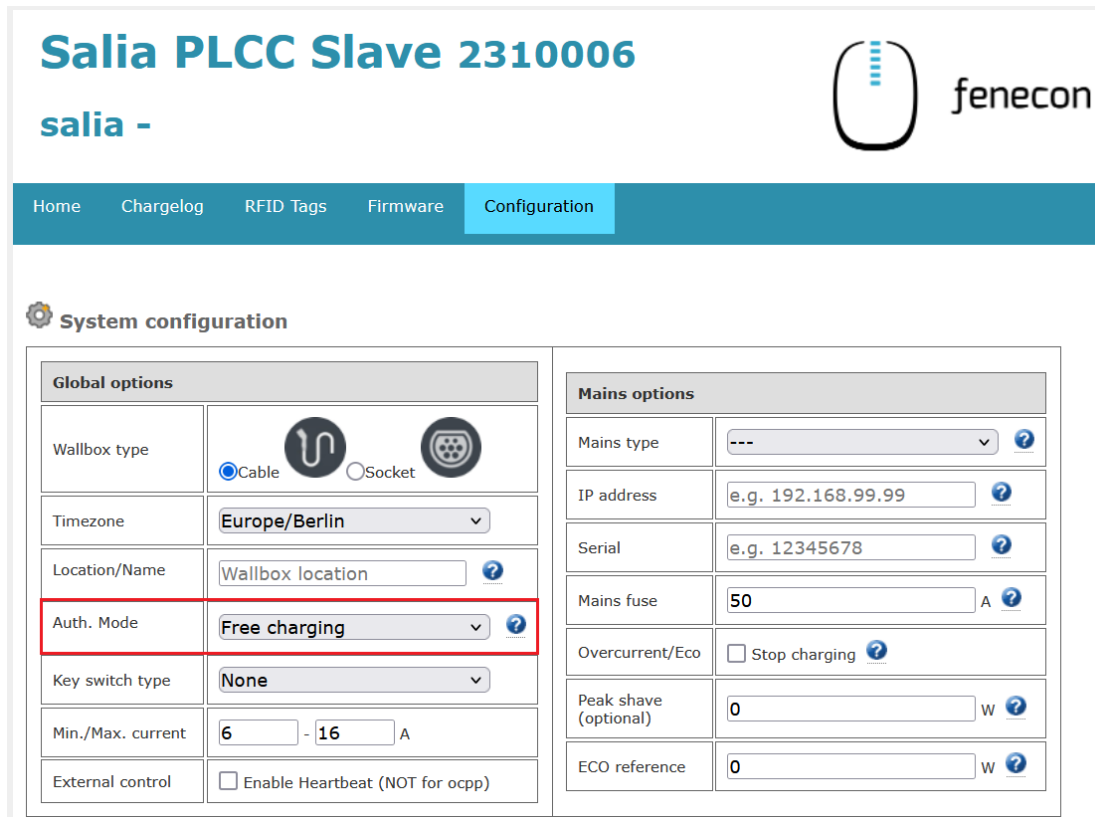


Bitte beachten Sie, dass die RFID-Autorisierung Ihres Hardy Barth eCharger cPH2 nur über die SALIA Weboberfläche ändern können.

Um die RFID-Autorisierung Ihres Hardy Barth eCharger cPH2 zu deaktivieren führen Sie die Schritte 1 bis 5 aus.

3.3. RFID-Autorisierung

Wichtig, setzen Sie bei Schritt 3. *Global Options* den den Authorization Mode von RFID Authorization auf Free Charging.



Salia PLCC Slave 2310006

salia -

Home Changelog RFID Tags Firmware **Configuration**

System configuration

Global options		Mains options	
Wallbox type	☒ Cable ☐ Socket	Mains type	--- ?
Timezone	Europe/Berlin	IP address	e.g. 192.168.99.99 ?
Location/Name	Wallbox location ?	Serial	e.g. 12345678 ?
Auth. Mode	Free charging ?	Mains fuse	50 A ?
Key switch type	None	Overcurrent/Eco	☐ Stop charging ?
Min./Max. current	6 - 16 A	Peak shave (optional)	0 W ?
External control	☐ Enable Heartbeat (NOT for ocpp)	ECO reference	0 W ?

Figure 8. Autorisierung ändern

Auf der Startseite Ihrer SALIA Web-Oberfläche sollte nun das Symbol für RFID-Autorisierung ausgegraut sein.



Bitte beachten Sie, dass im Modus Free Charging keine Freigabe notwendig ist. Setzen Sie daher Ihren Hardy Barth eCharger cPH2 über die FEMS App AC-Ladestation auf AUS bei längeren Abwesenheiten.

3.4. Updating the charging station firmware

We recommend always using the latest firmware to ensure that all the latest functions of the charging station can

3.4. Updating the charging station firmware

be used.

This can be obtained from the manufacturer's website of eCharge Hardy Barth or directly via the link below:

[Salia eCharge Firmware](#)

The firmware can then be updated via the web interface of the charging station (see [Web interface — Charging station](#)).

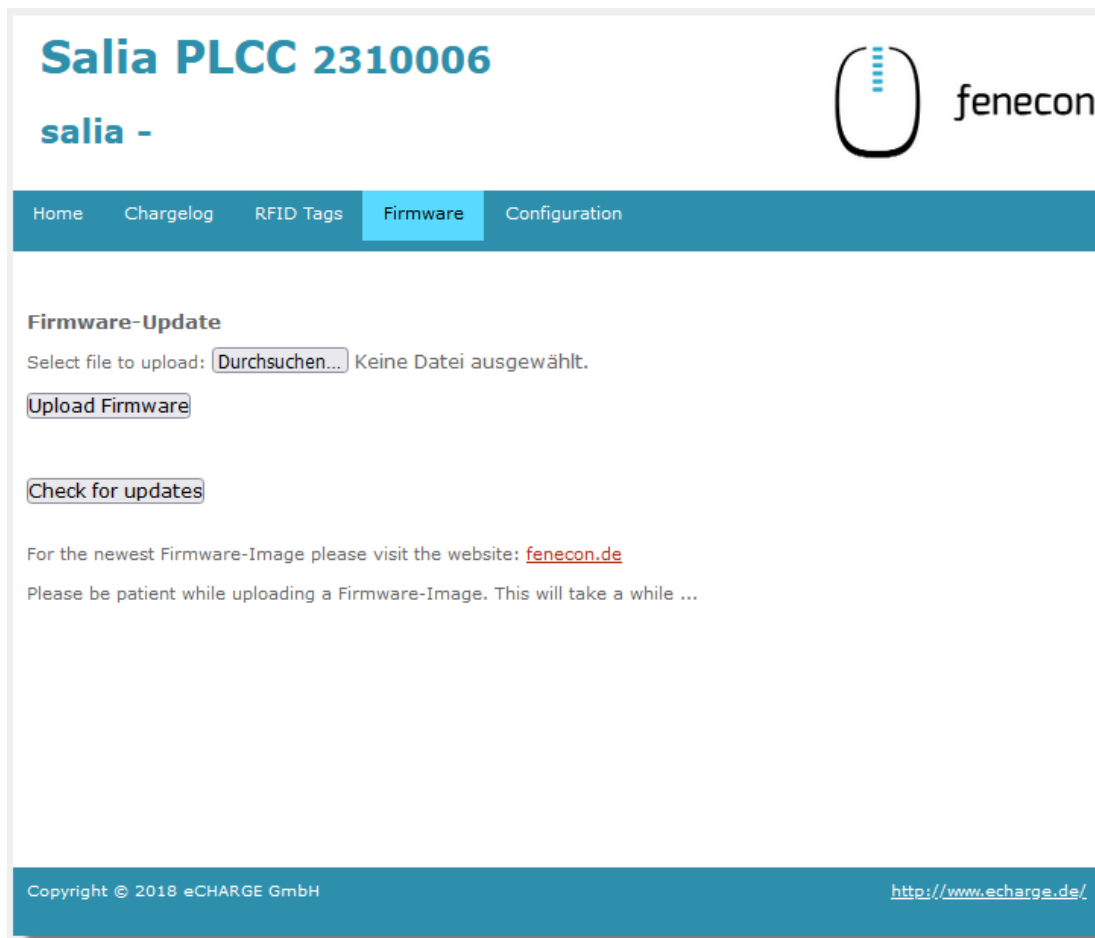


Figure 9. Web interface — Charging station

Then proceed as follows:

1. Reiter *Firmware* aufrufen.
2. Zuvor heruntergeladene Firmware Datei mit *Durchsuchen...* auswählen.
3. Auf *Upload Firmware* klicken.



The *Check for updates* function is only available from version 1.50.0 and up.

The software update has now been completed.

Die Konfiguration ist hiermit abgeschlossen.

4. Install FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation

In the FEMS App Center you will find all installable FEMS Apps — such as the FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation.



In the user manual [FEMS App Center](#) you will find detailed instructions on how to use the FEMS App Center. It also describes how to register and redeem a license key.

There are two ways to install an app via the FEMS App Center. Only the [\[Direct installation\]](#) is described below, whereby a license key is registered and redeemed in the FEMS.

4.1. Direct Installation

To install the FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation directly, go to the overview of the FEMS App Center.



Only apps from the "Available" category can be installed.

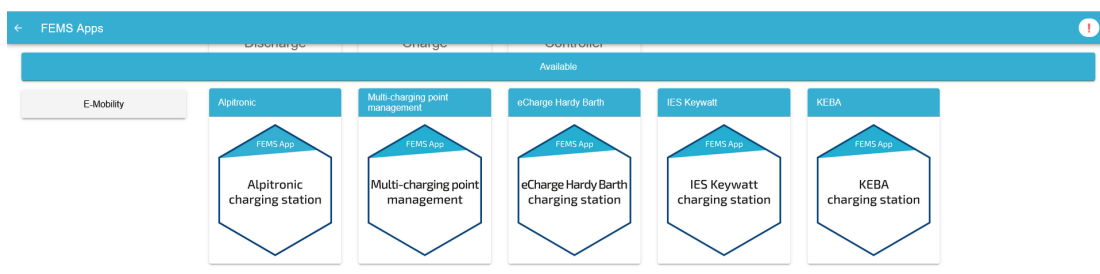


Figure 10. App installation — Variant 2: Step 1

Select the FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation by clicking on it.

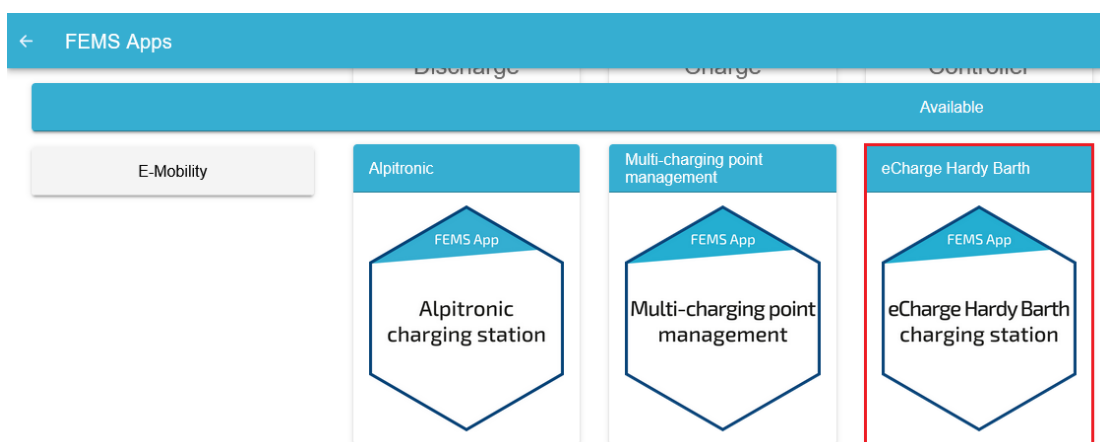


Figure 11. App installation — Variant 2: Step 2

You will then be taken to the app overview.

4.1. Direct Installation

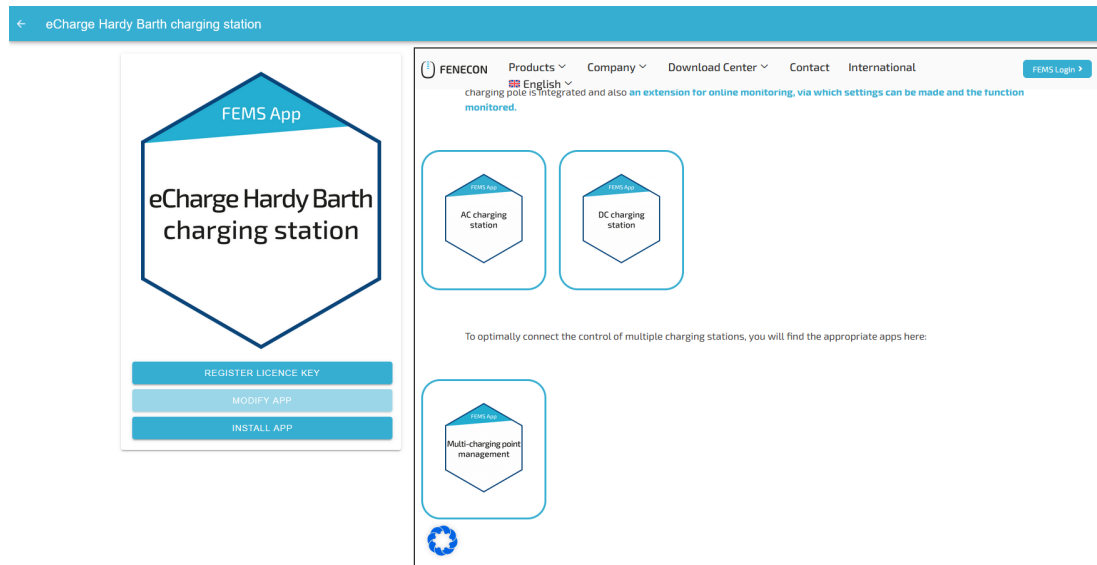


Figure 12. App installation — Variant 2: Step 3

Click on the "Install app" button.

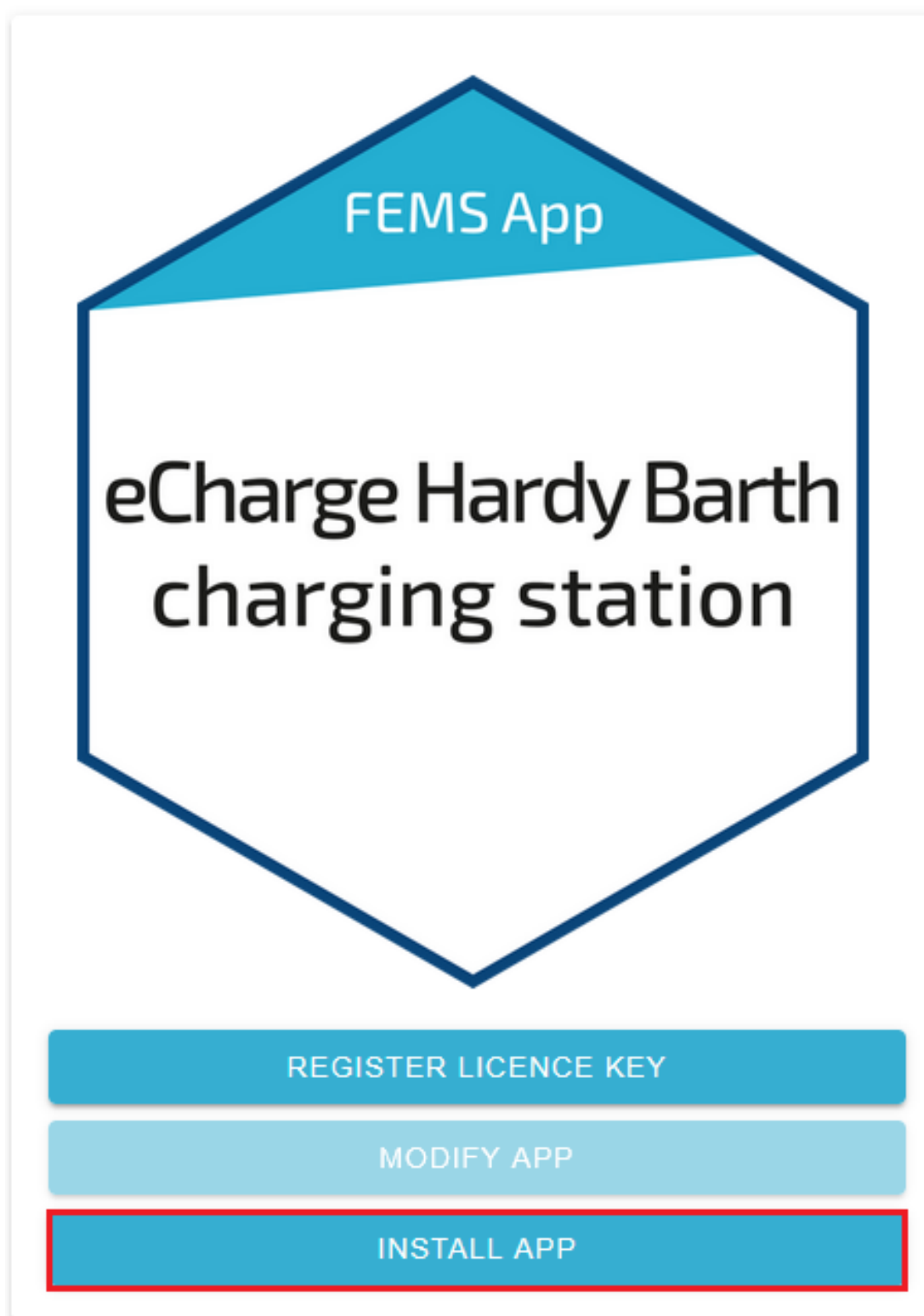


Figure 13. App installation — Variant 2: Step 4

An input mask for redeeming a license key appears.

4.1. Direct Installation

Redeem licence key
×

Please enter the licence key you have received in the order process here:

Do you wish to redeem a key already registered?
☒

Registered licence keys*
XXXX-XXXX-XXXX-XXXX

Licence key*
XXXX-XXXX-XXXX-XXXX

CANCEL
REDEEM LICENCE KEY

Figure 14. App installation — Variant 2: Step 5

You have two options here.

4.1.1. Redeem already registered license key

If you want to redeem an already registered license key, select it (1). Then click on the button of the same name to redeem the selected license key (2).

Redeem licence key
×

Please enter the licence key you have received in the order process here:

Do you wish to redeem a key already registered?
☒

Registered licence key*
1 → XXXX-XXXX-XXXX-XXXX

Licence key*
XXXX-XXXX-XXXX-XXXX

CANCEL
REDEEM LICENCE KEY
2

Figure 15. App installation — Variant 2: Step 5a

4.1.2. Redeeming a new license key

If you have not yet registered a license key or wish to redeem a new license key, enter the 16-digit key in the corresponding field (1) and then click on "Validate license key" (2). The entered license key is then checked for validity.

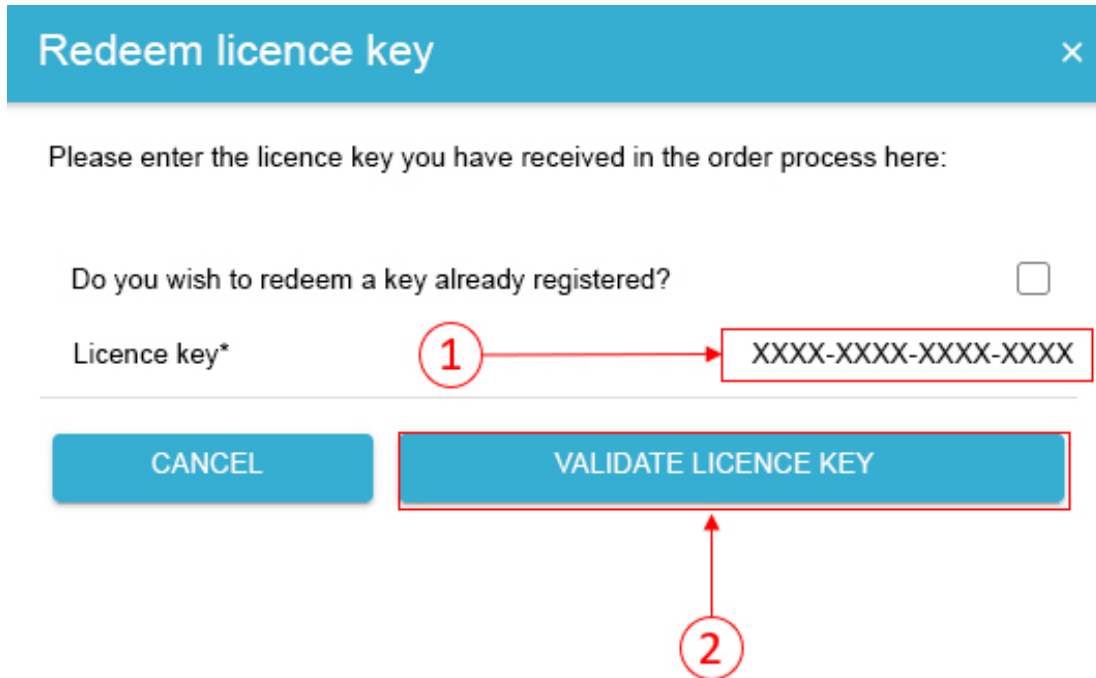


Figure 16. App installation — Variant 2: Step 5b

If the license key is valid, it can be redeemed by clicking on the button of the same name. If the license key is recognized as invalid, please check your entry and try again.

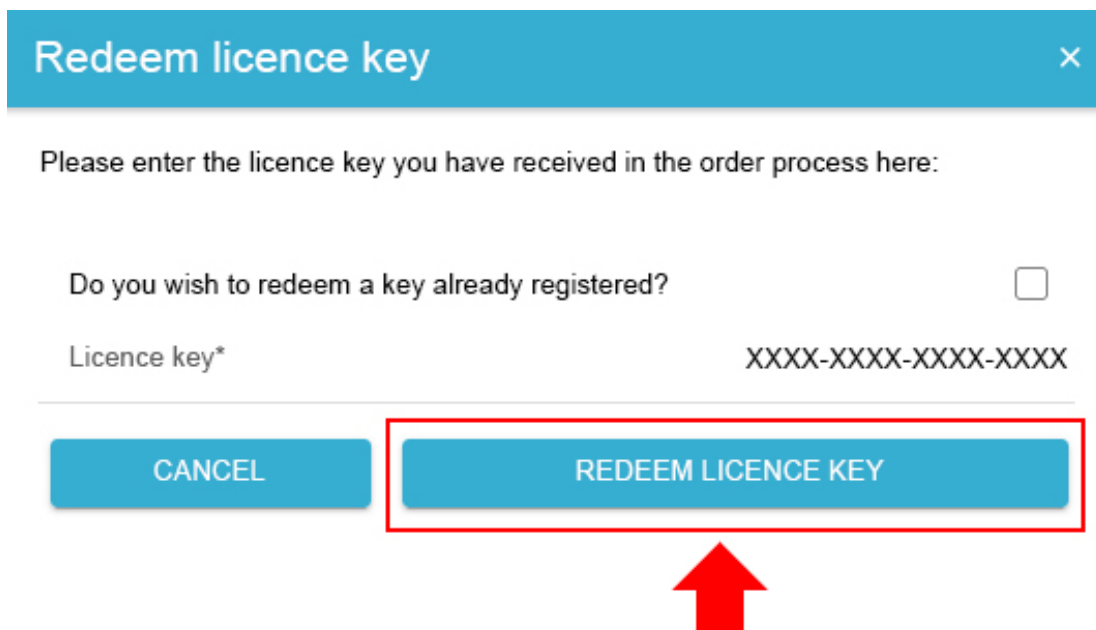


Figure 17. Redeeming a new license key: Step 6

4.1. Direct Installation

You will then be taken to the installation wizard for FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation.

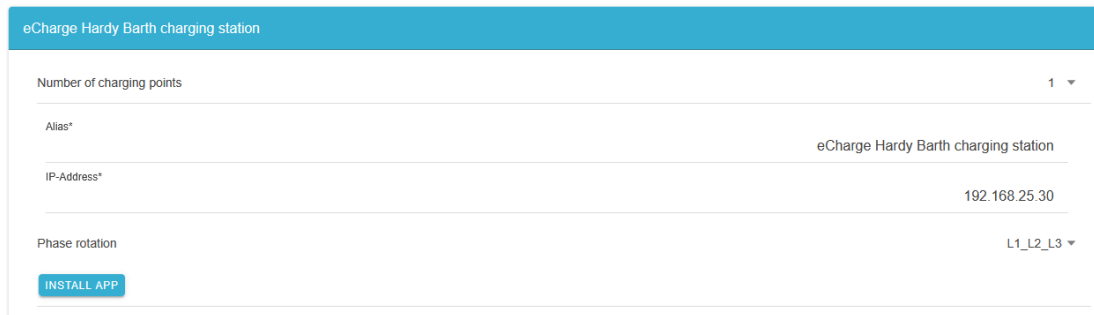


Figure 18. App installation — Variant 2: Step 7

Some of the input fields are pre-filled. Nevertheless, enter your data if it differs from the default values (e. g. IP address). Otherwise, the default values can be retained (e. g. port, Modbus unit ID).



Mandatory fields are marked with *



Check your entries and make sure that they are correct. Otherwise the respective app will not work properly!

For the Hardy Barth eCharger cPH2 2T22, please select "2" for the number of charging points.

Use the drop-down menu to select the number of charging points.

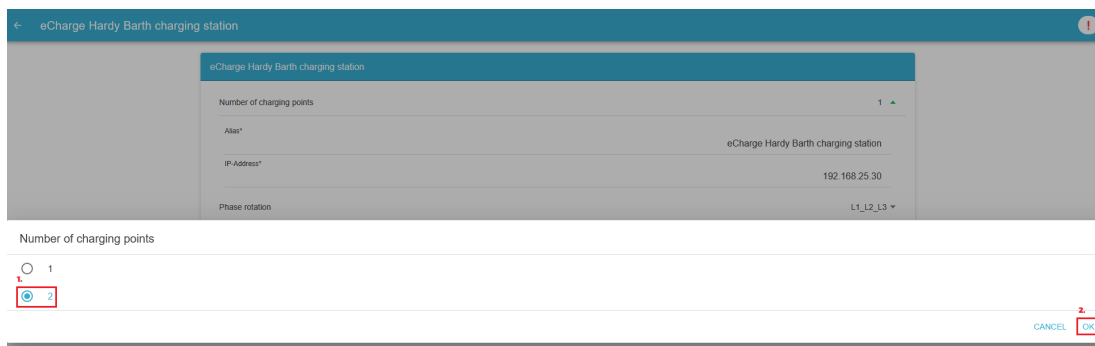


Figure 19. App installation — Variant 2: Step 8

Confirm with "OK".

Please note that the IP addresses for the right and left charging points of the Hardy Barth eCharger must be entered separately.

eCharge Hardy Barth charging station

Number of charging points
2

Charging point 1

Alias*
eCharge Hardy Barth charging station - Right

IP-Address*
192.168.25.30

Charging point 2

Alias*
eCharge Hardy Barth charging station - Left

IP-Address*
192.168.25.31

Limitation Maximum charge from grid

Phase rotation
L1_L2_L3

INSTALL APP

Figure 20. App installation — Variant 2: Step 9

From the second charging point, a limitation of the maximum grid consumption in watts must be set.

Limitation Maximum charge from grid

In order to set up an additional charging station/charging point, it is essential to check the maximum grid withdrawal. The maximum grid withdrawal limits the total power drawn by your system and thus prevents overloading your grid connection point.

Note: Without adjustment, the maximum grid withdrawal will be taken from the initial commissioning of your energy storage system.

Enter this value below in watts (e. g. 22,000 for a grid connection of 22 kW).

Max. grid draw*
20010
Watt

CANCEL
OK

Figure 21. App installation — Variant 2: Step 10

Please confirm that you have read the note and filled in the value correctly.

Confirm with "OK".

In einem nächsten Schritt können Sie eine Phasenrotation einstellen.



Bitte beachten Sie, dass die Phasenrotation erst ab dem FEMS Release 2024.11.2 oder neuer

4.1. Direct Installation

enthalten ist.

Als Standard ist der Phasenanschluss L1_L2_L3 ausgewählt.

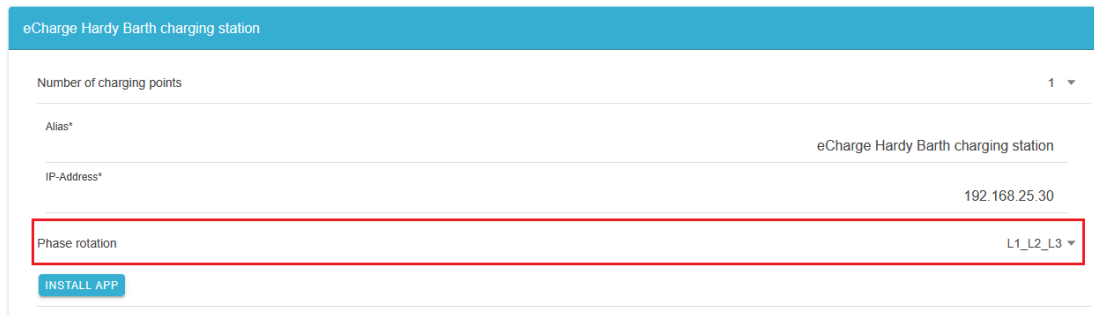


Figure 22. App-Installation — Phasenrotation: Schritt 1

Sollte Ihr Phasenanschluss hiervon abweichen, können Sie über den Drop-Down-Button einen anderen Phasenanschluss auswählen.

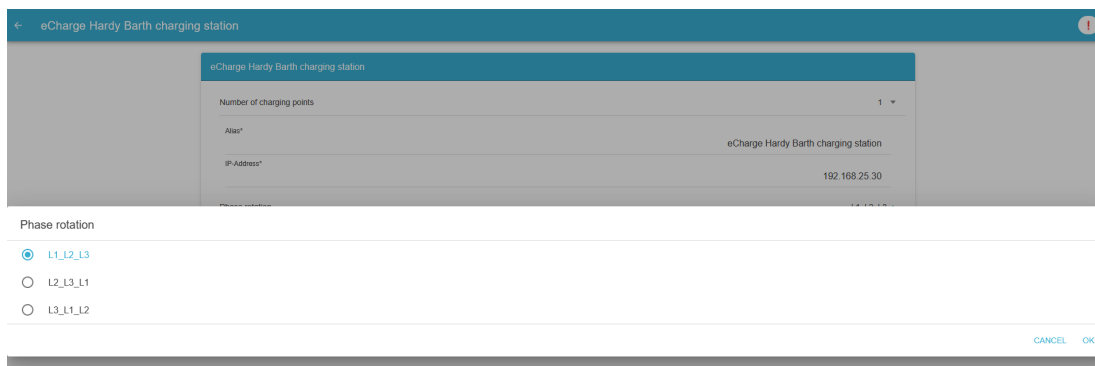


Figure 23. App-Installation — Phasenrotation: Schritt 2

Bestätigen Sie Ihre Auswahl mit "OK".

Then click on "Install app".

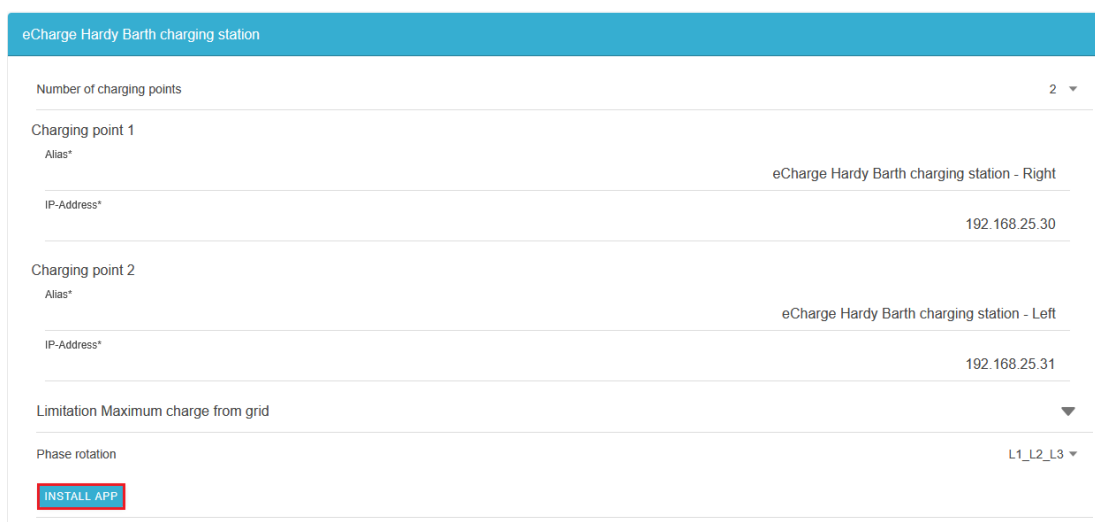


Figure 24. App installation — Variant 2: Step 11

Once the installation process is complete, the new app appears in the overview of the FEMS App Center in the

"Installed" category.

4.2. Edit FEMS app



Apps that have already been installed can be subsequently edited to change configuration settings. To do this, select the respective app in the FEMS App Center overview and click on the "Edit app" button. Detailed instructions are found in the user manual [FEMS App Center](#).

Die FEMS App eCharge Hardy Barth cPH2 2T22 Ladestation wurde erfolgreich installiert.

5. Contact

5. Contact

For support, please contact:

FENECON GmbH
Gewerbepark 6
94547 Iggenbach

Telefon — Service: 0991-648800-33
E-Mail — Service: service@fenecon.de

6. Verzeichnisse

6.1. Abbildungsverzeichnis

Figure 1. Network interfaces (LAN) — Salia board

Figure 2. Meter

Figure 3. Meter plug connection

Figure 4. SALIA Web-Oberfläche

Figure 5. Network settings

Figure 6. Autorisierung ändern

Figure 7. Save and reboot

Figure 8. Autorisierung ändern

Figure 9. Web interface — Charging station

Figure 10. App installation — Variant 2: Step 1

Figure 11. App installation — Variant 2: Step 2

Figure 12. App installation — Variant 2: Step 3

Figure 13. App installation — Variant 2: Step 4

Figure 14. App installation — Variant 2: Step 5

Figure 15. App installation — Variant 2: Step 5a

Figure 16. App installation — Variant 2: Step 5b

Figure 17. Redeeming a new license key: Step 6

Figure 18. App installation — Variant 2: Step 7

Figure 19. App installation — Variant 2: Step 8

Figure 20. App installation — Variant 2: Step 9

Figure 21. App installation — Variant 2: Step 10

Figure 22. App-Installation — Phasenrotation: Schritt 1

Figure 23. App-Installation — Phasenrotation: Schritt 2

Figure 24. App installation — Variant 2: Step 11