



Installations- und Konfigurationsanleitung — eCharge Hardy Barth cPμ2 Pro

Version:2023.3.1

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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. Product description

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 cPμ2 Pro charging station
- eCharge MID meters
- 11 kW, integriertes 4-Meter-Spiralkabel mit Typ-2-Stecker (IEC 62196-2)
- Installations- und Konfigurationsanleitung — Typ-2-Ladestation "eCharge Hardy Barth cPμ2 Pro"
- Handbuch — "Ladestation cPμ2 Pro"



Das RS485-Zweidrahtkabel, welches für den Anschluss der Modbus-/RTU-Kommunikationsverbindung zum Zähler notwendig ist, ist nicht im Lieferumfang enthalten!

2.2. Prerequisites

The following is required to use the charging station:

- FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation



Die »FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation« ist nicht im Lieferumfang enthalten. Diese muss — falls noch nicht vorhanden — zusätzlich erworben werden.

3. Commissioning

3. Commissioning



To install the Hardy-Barth charging station, please follow the instructions in the "Installation and operating instructions cPμ2 charging station".
[Operating instructions cPμ2 German \(v1.0\)](#)



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.



The plug connection for the LED display can be disconnected if required. This makes it easier to work on the charging station during commissioning.



We recommend checking the plug connection to the left of the Ethernet port on the Salia board, as in our experience this is often loose.

Once the charging station has been installed and configured, it must be connected to the customer network via the network interface (LAN) on the Salia board.

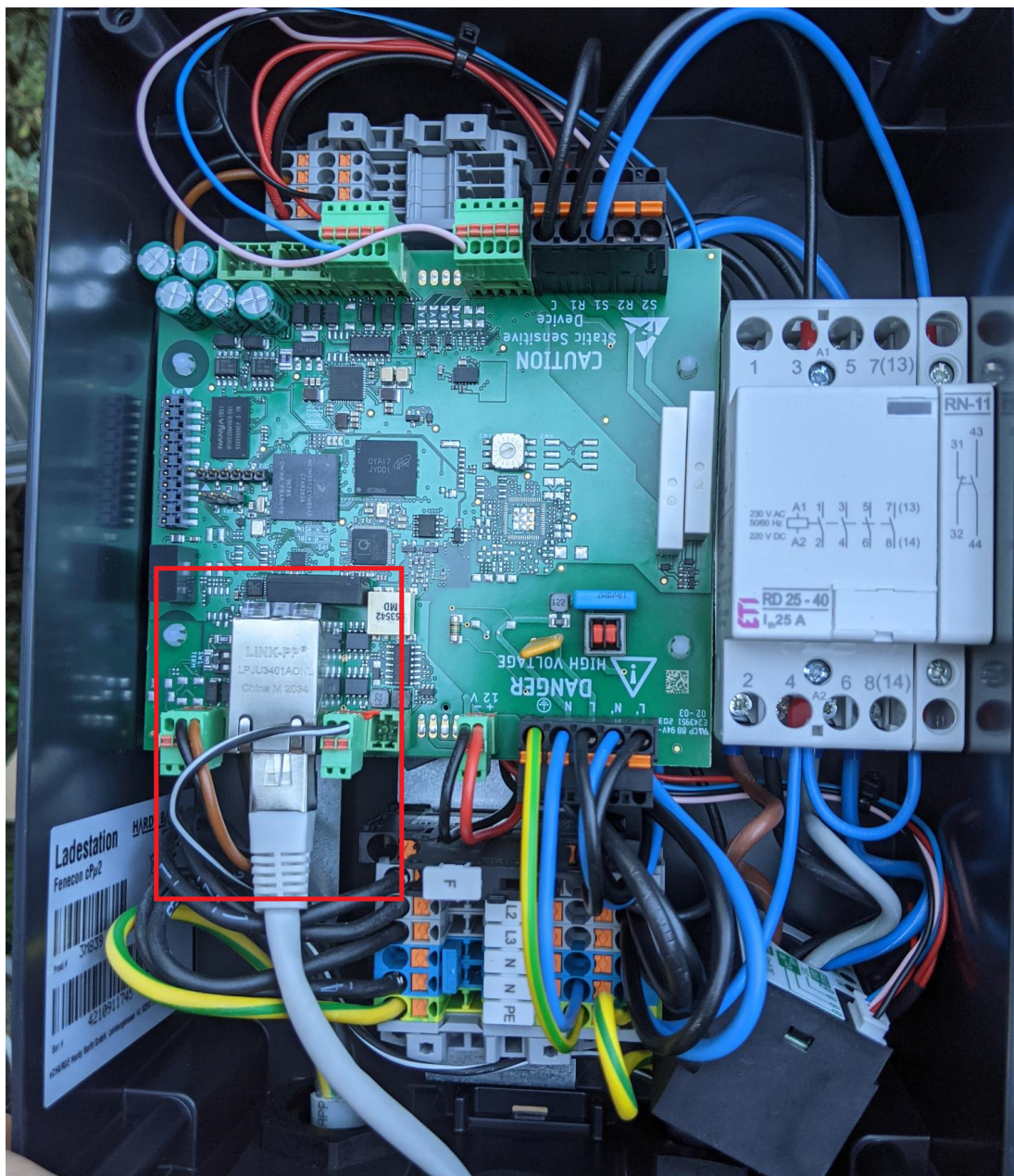


Figure 1. Network interface (LAN) - Salia board

3.1. Connecting the meter

3.1. Connecting the meter

Connect the meter as shown below:



Figure 2. Connected meter

Use the enclosed instructions for this:

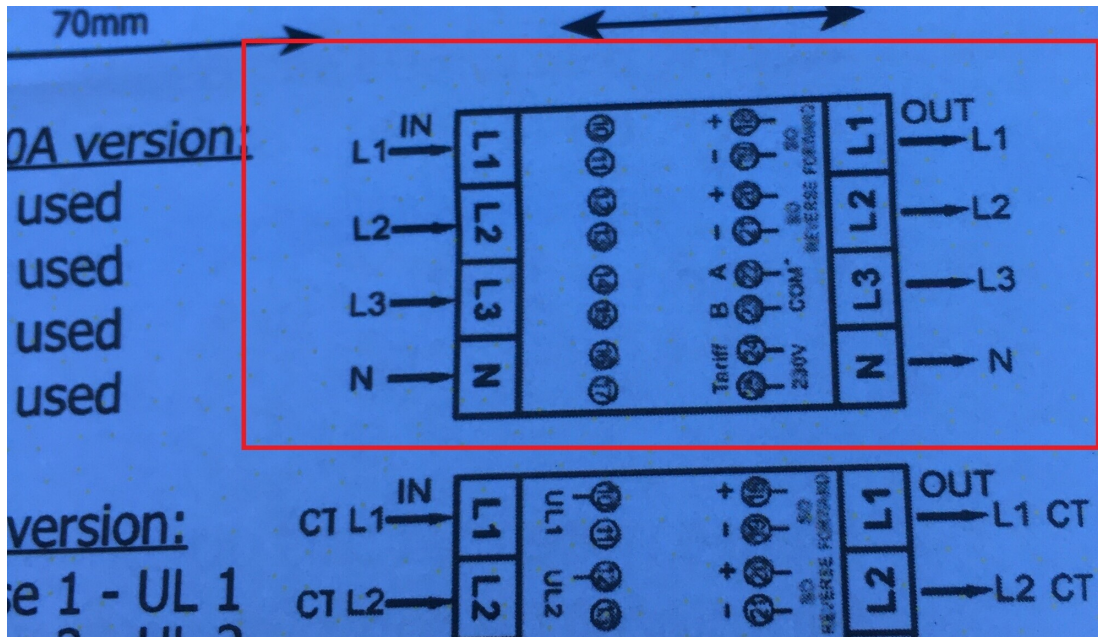


Figure 3. Meter connection



Make sure that the meter is installed the right way round: *OUT* must point towards the charging station, *IN* towards the sub-distribution board.

Establish the communication connection to the meter as follows:

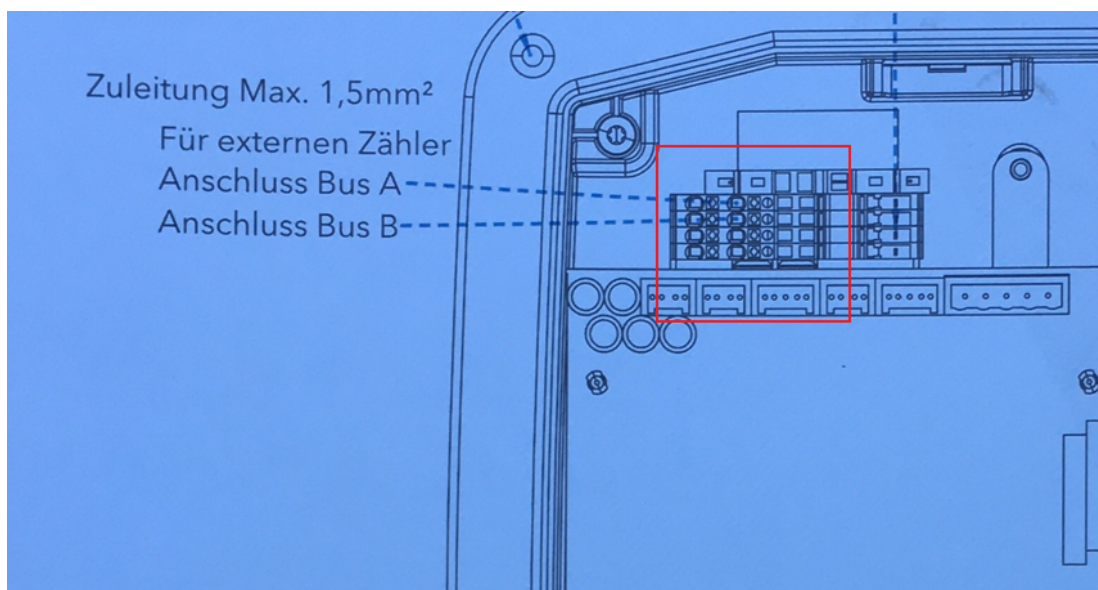


Figure 4. Establishing the communication connection

The negative contact of the cable must be connected to contact A on the meter and to contact 22 (top) on the Salia board. The positive contact of the cable must be connected to contact B on the meter and to contact 23 (bottom) on the Salia board.

3.2. Configuration

3.2. Configuration

By default, the charging station can be reached under the IP address **192.168.25.30** (or **169.254.12.30**).

To reach the charging station from your notebook/PC, it is necessary to set up a static IP address in the same subnet (e. g. **192.168.25.1**) in the network adapter settings.

1. To do this, connect the Salia board to your device (here: notebook) via the RJ45 socket, as shown below:

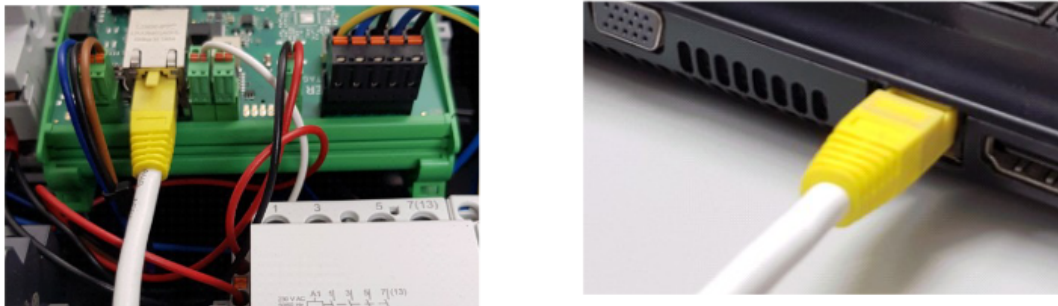
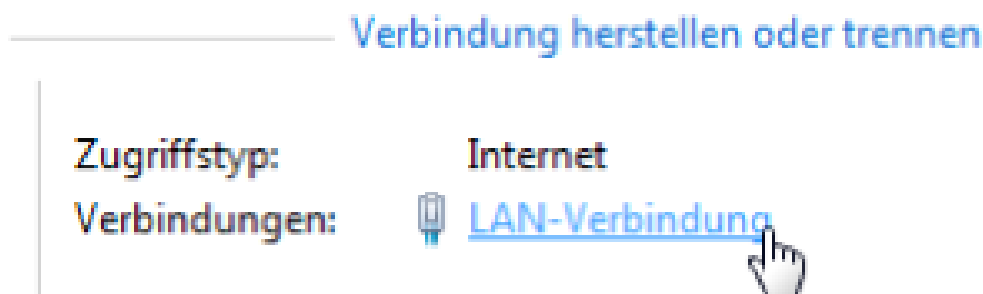


Figure 5. Connecting the Salia board to the notebook

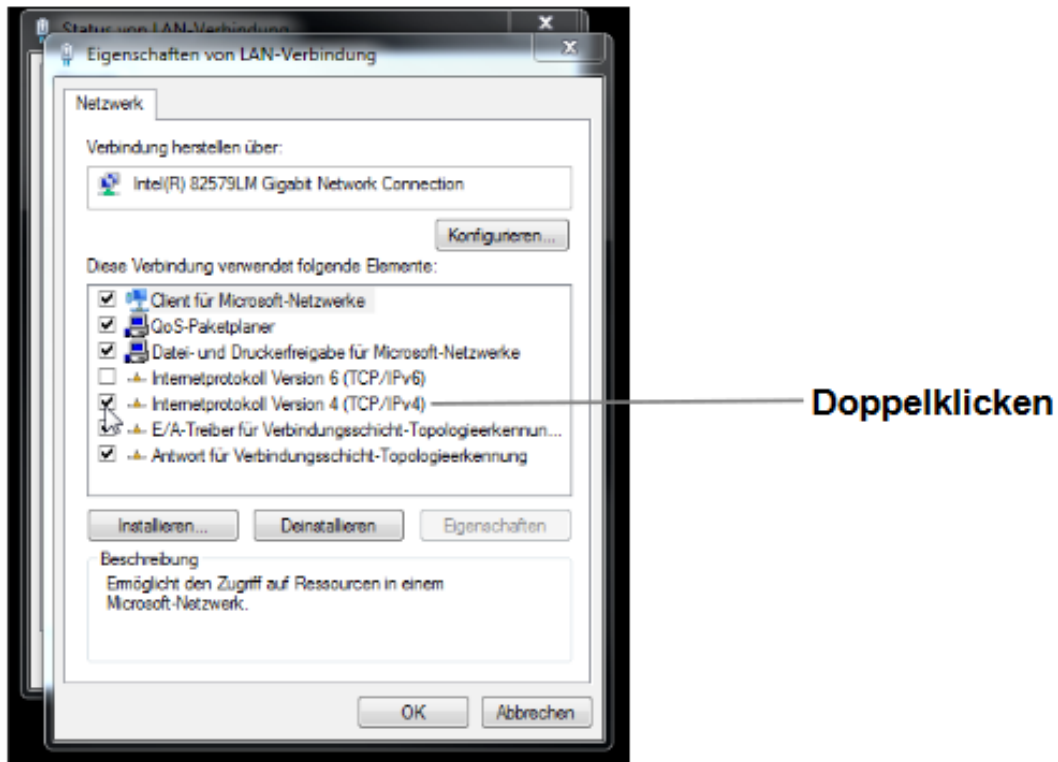
2. Open your web browser to access the web interface. To do this, enter the following IP address: **192.168.25.30**

If problems occur in step 2, proceed as follows:

1. Open the "Network and Sharing Center" under the system settings of your PC.
2. Click on LAN connection.



3. In the newly opened window, click on Properties
4. In the new window, double-click to open the "Internet Protocol Version 4 (TCP/IPv4)" item (see graphic).
Alternatively, select "Internet Protocol Version 4 (TCP/IPv4)" in the open window and then click on "Properties"



5. In the next window, select "Use the following IP address" to enter the IP address **192.168.25.1** and the subnet mask **255.255.255.0** as shown in the picture below. The entries for the DNS server can be left blank.

Eigenschaften von Internetprotokoll, Version 4 (TCP/IPv4)
✕

Allgemein

IP-Einstellungen können automatisch zugewiesen werden, wenn das Netzwerk diese Funktion unterstützt. Wenden Sie sich andernfalls an den Netzwerkadministrator, um die geeigneten IP-Einstellungen zu beziehen.

☐ IP-Adresse automatisch beziehen

☒ Folgende IP-Adresse verwenden:

IP-Adresse:

192 . 168 . 25 . 1

Subnetzmaske:

255 . 255 . 255 . 0

Standardgateway:

. . .

☐ DNS-Serveradresse automatisch beziehen

☒ Folgende DNS-Serveradressen verwenden:

Bevorzugter DNS-Server:

. . . |

Alternativer DNS-Server:

. . .

☐ Einstellungen beim Beenden überprüfen

Erweitert...

OK

Abbrechen

6. Confirm the entries. Then switch off the power to the wallbox once, wait a few seconds and allow the wallbox to reboot.

The charging station can then be configured via the web interface. To do this, enter the IP address of the charging station (192.168.25.30) in the address bar of the browser. The web interface then appears as shown below:

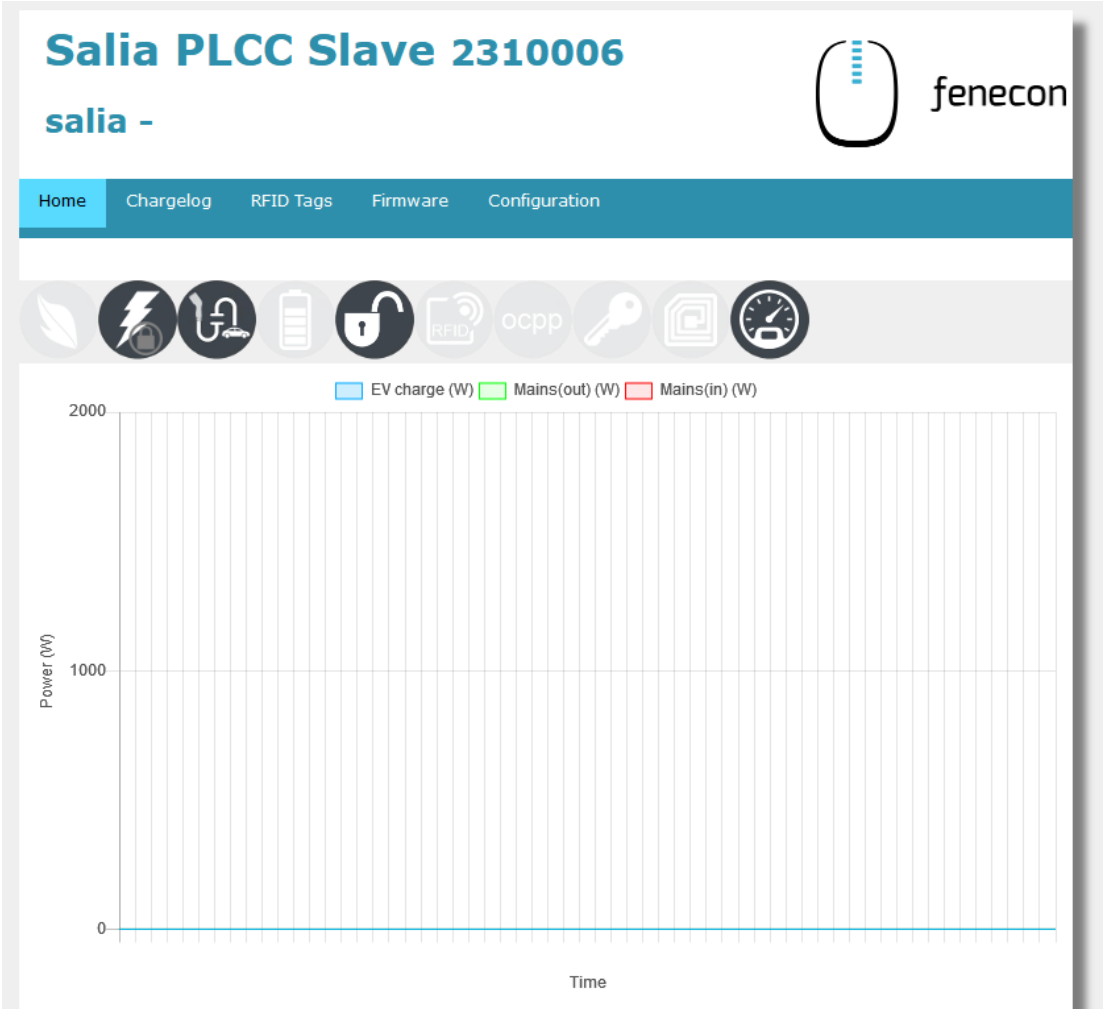


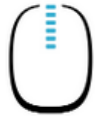
Figure 6. Web interface

3.2. Configuration

The network settings can be checked here:

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

Free charging

Min./Max. current

6 - 16 A

External control

☒ Enable Heartbeat

aWATTar

☐ Enable API

Mains options

Mains type

IP address

e.g. 192.168.99.99

Serial

e.g. 12345678

Mains fuse

50 A

Overcurrent

☐ 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

192.168.25.30

Subnetmask

255.255.255.0

Gateway

192.168.25.10

DNS

192.168.25.10

NTP

time1.google.com

Save and reboot

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<http://www.echarge.de/>

Figure 7. Network settings

3.3. Configuration of the meter

It must be ensured that the meter is activated:

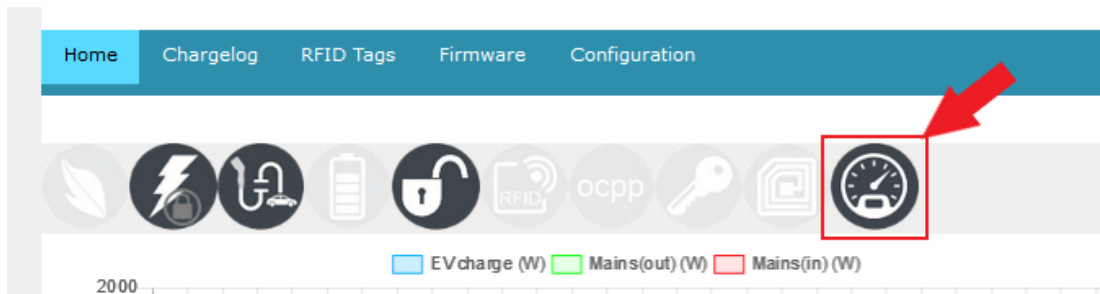


Figure 8. Meter

If this is not the case (grayed out symbol), it must be activated manually. To do this, double-click in the free area next to *System configuration*:

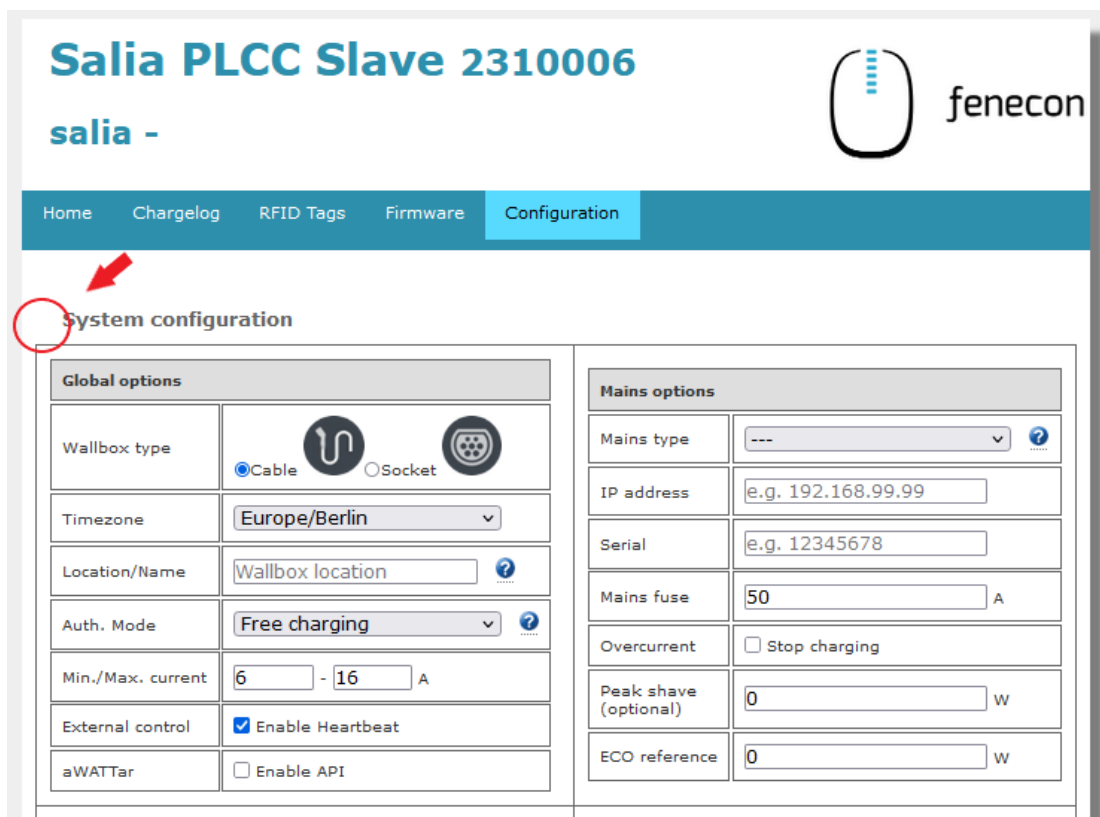
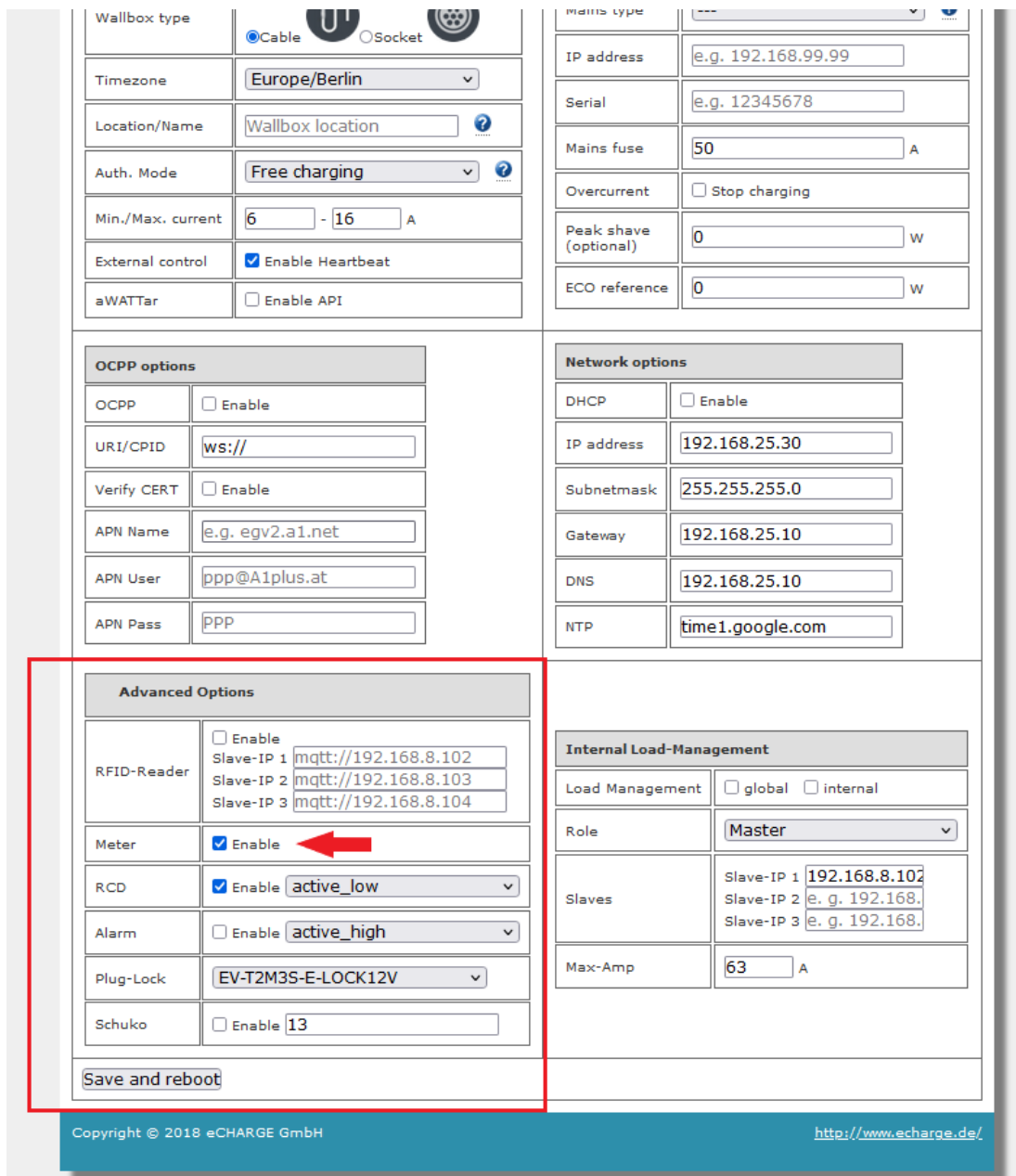


Figure 9. Hidden menu

3.3. Configuration of the meter

An extended view with further configuration options then opens. The meter can be activated under *Advanced 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
Min./Max. current	6 - 16 A	Overcurrent	☐ Stop charging
External control	☒ Enable Heartbeat	Peak shave (optional)	0 W
aWATTar	☐ Enable API	ECO reference	0 W

OCPP options		Network options	
OCPP	☐ Enable	DHCP	☐ Enable
URI/CPID	ws://	IP address	192.168.25.30
Verify CERT	☐ Enable	Subnetmask	255.255.255.0
APN Name	e.g. egv2.a1.net	Gateway	192.168.25.10
APN User	ppp@A1plus.at	DNS	192.168.25.10
APN Pass	PPP	NTP	time1.google.com

Advanced Options		Internal Load-Management	
RFID-Reader	☐ Enable Slave-IP 1: mqtt://192.168.8.102 Slave-IP 2: mqtt://192.168.8.103 Slave-IP 3: mqtt://192.168.8.104	Load Management	☐ global ☐ internal
Meter	☒ Enable	Role	Master
RCD	☒ Enable active_low	Slaves	Slave-IP 1: 192.168.8.102 Slave-IP 2: e.g. 192.168. Slave-IP 3: e.g. 192.168.
Alarm	☐ Enable active_high	Max-Amp	63 A
Plug-Lock	EV-T2M3S-E-LOCK12V		
Schuko	☐ Enable 13		

Save and reboot

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Figure 10. Meter activation



If no meter values are displayed in the FEMS Online Monitoring, please check whether the correct meter has been selected.

Double-click on the cogwheel next to *Advanced Options* to do so:

 Advanced Options

RFID-Reader	☒ Enable Slave-IP 1 mqtt://192.168.178.162 Slave-IP 2 mqtt://192.168.8.103 Slave-IP 3 mqtt://192.168.8.104
Meter	☒ Enable
RCD	☒ Enable active_low
Alarm	☐ Enable active_high
Plug-Lock	EV-T2M3S-E-LOCK12V
Schuko	☐ Enable 13

Figure 11. Advanced options

An extended view then opens with further configuration options for meters and RFID cards.

Please check that the correct meter has been selected under *Advanced Meter Options* under *Protocol*.

3.4. Saving the changes

Advanced Options	
RFID-Reader	☒ Enable Slave-IP 1 mqtt://192.168.178.162 Slave-IP 2 mqtt://192.168.8.103 Slave-IP 3 mqtt://192.168.8.104
Meter	☒ Enable
RCD	☒ Enable active_low
Alarm	☐ Enable active_high
Plug-Lock	EV-T2M3S-E-LOCK12V
Schuko	☐ Enable 13

Advanced Meter Options	
Port	/dev/ttymx0
Protocol	Eastron
Parity	none
Baudrate	9600
Address	1

LED Options	
Buzzlight	☒ Enable
Boardtype	home
Socket #	1 (Master)
Port	/dev/ttymx4
Protocol	modbuzz1.0
Total sockets	2

Internal Load-Management	
Load Management	☒ global ☒ internal
Role	Master
Slaves	Slave-IP 1 192.168.178.1 Slave-IP 2 e. g. 192.168.8 Slave-IP 3 e. g. 192.168.8
Max-Amp	32 A

Phase switching	
3to1 phase	☐ Enable WARNING
switch delay	20 sec
wake up method	State E

Advanced RFID Options	
Port	/dev/ttymx4
Protocol	stronglink-modbus
Parity	none
Baudrate	9600
Address	17

Figure 12. Meter installed (here: Eastron)

In this example, an "Eastron" meter is selected.

3.4. Saving the changes

To apply your changes, click on *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 13. Save and reboot

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

3.5. 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 cPμ2 Pro.

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.

3.5. RFID-Autorisierung



Figure 14. 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

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<https://www.echarge.de/>

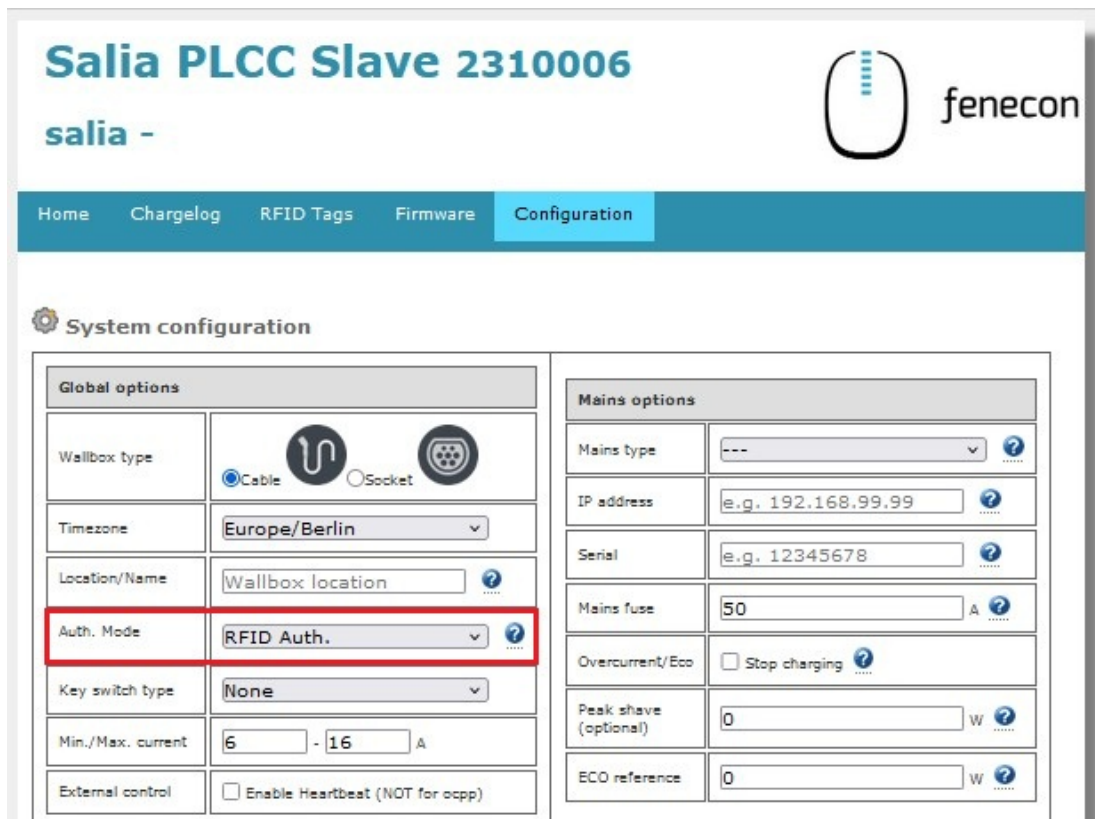
Figure 15. Network settings

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

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3.5. RFID-Autorisierung



Salia PLCC Slave 2310006

salia - fenecon

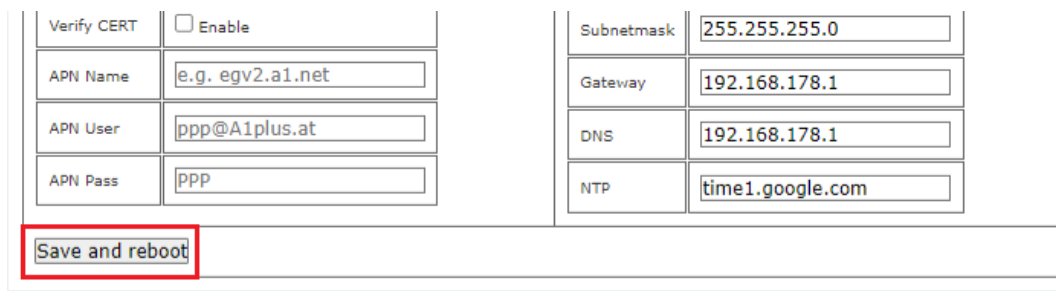
Home | Chargelog | RFID Tags | Firmware | **Configuration**

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 16. 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 17. Save and reboot

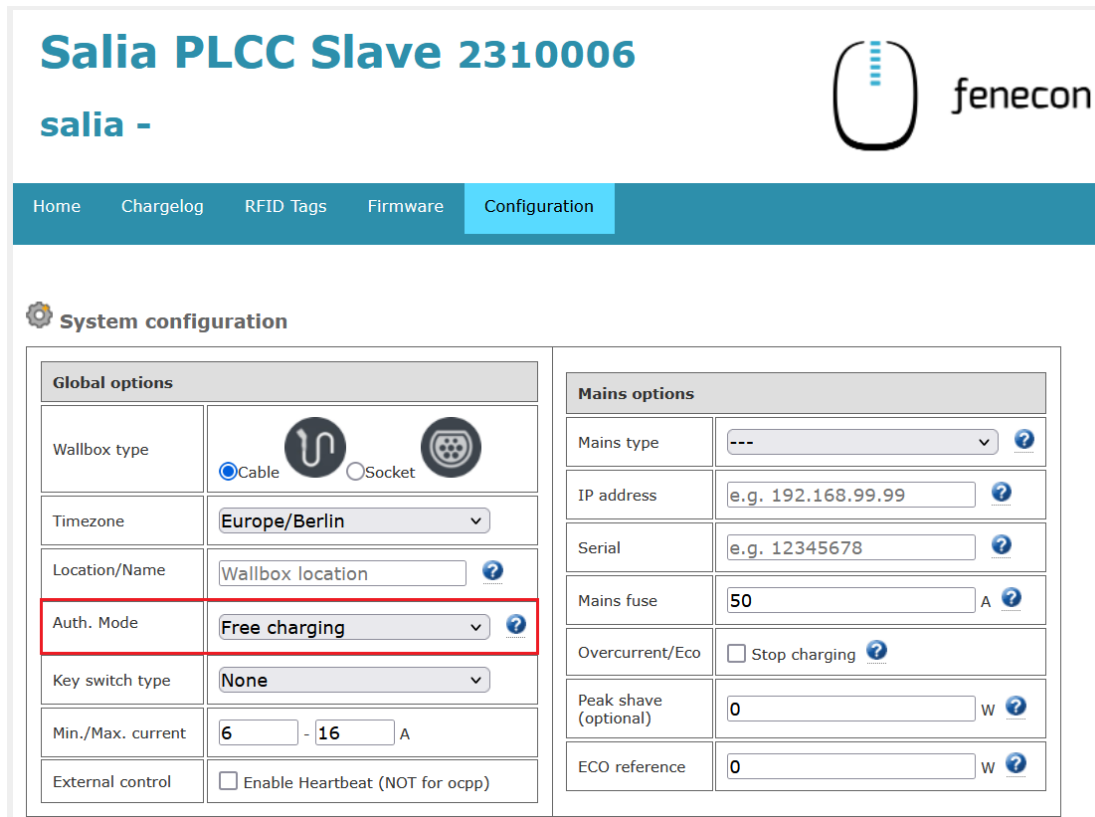
- Auf der Startseite Ihrer SALIA Web-Oberfläche sollte nun das Symbol für RFID-Autorisierung eingeblendet werden.



Um die RFID-Autorisierung Ihres Hardy Barth eCharger cPμ2 Pro zu deaktivieren führen Sie die Schritte 1 bis 5 aus.

3.5. 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 18. 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 cµ2 Pro über die FEMS App AC-Ladestation auf AUS bei längeren Abwesenheiten.

3.6. Updating the charging station firmware

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

3.6. 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](#)).

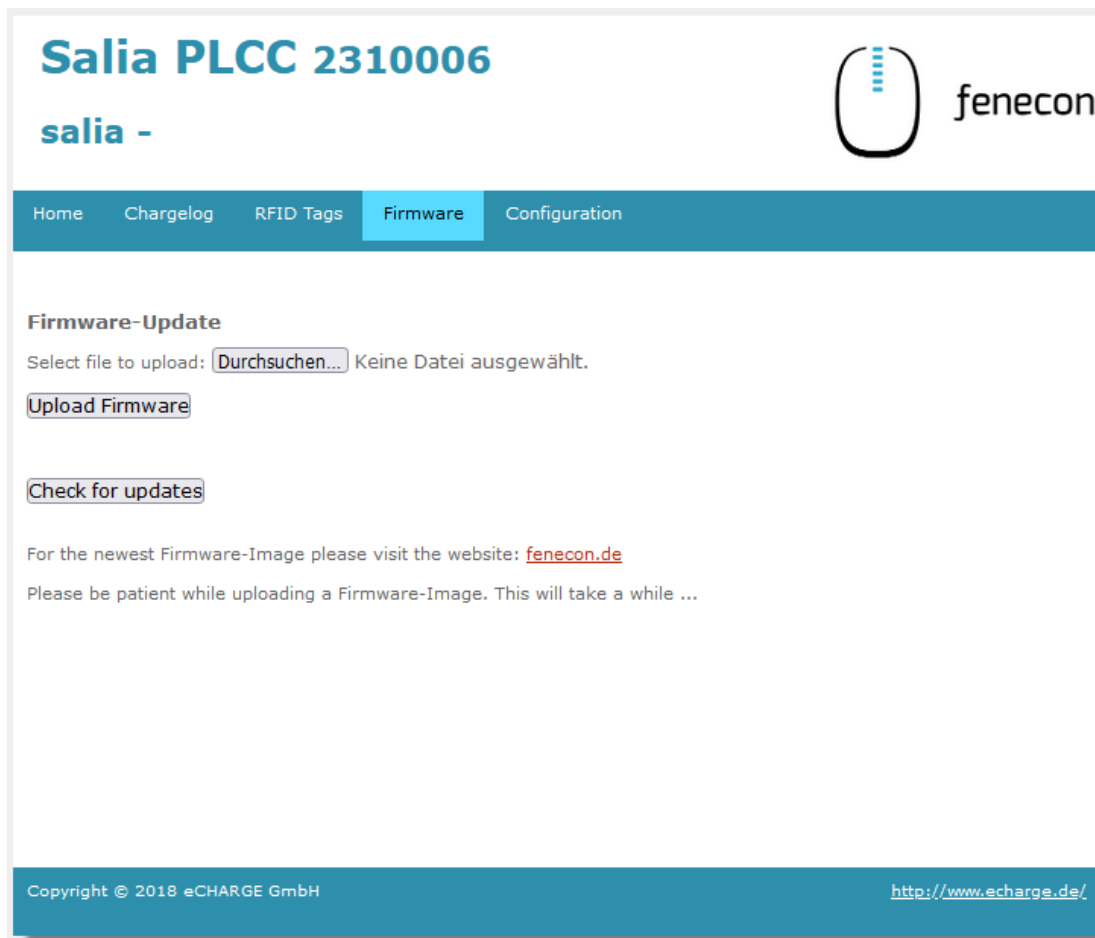


Figure 19. Web interface — Charging station

Then proceed as follows:

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



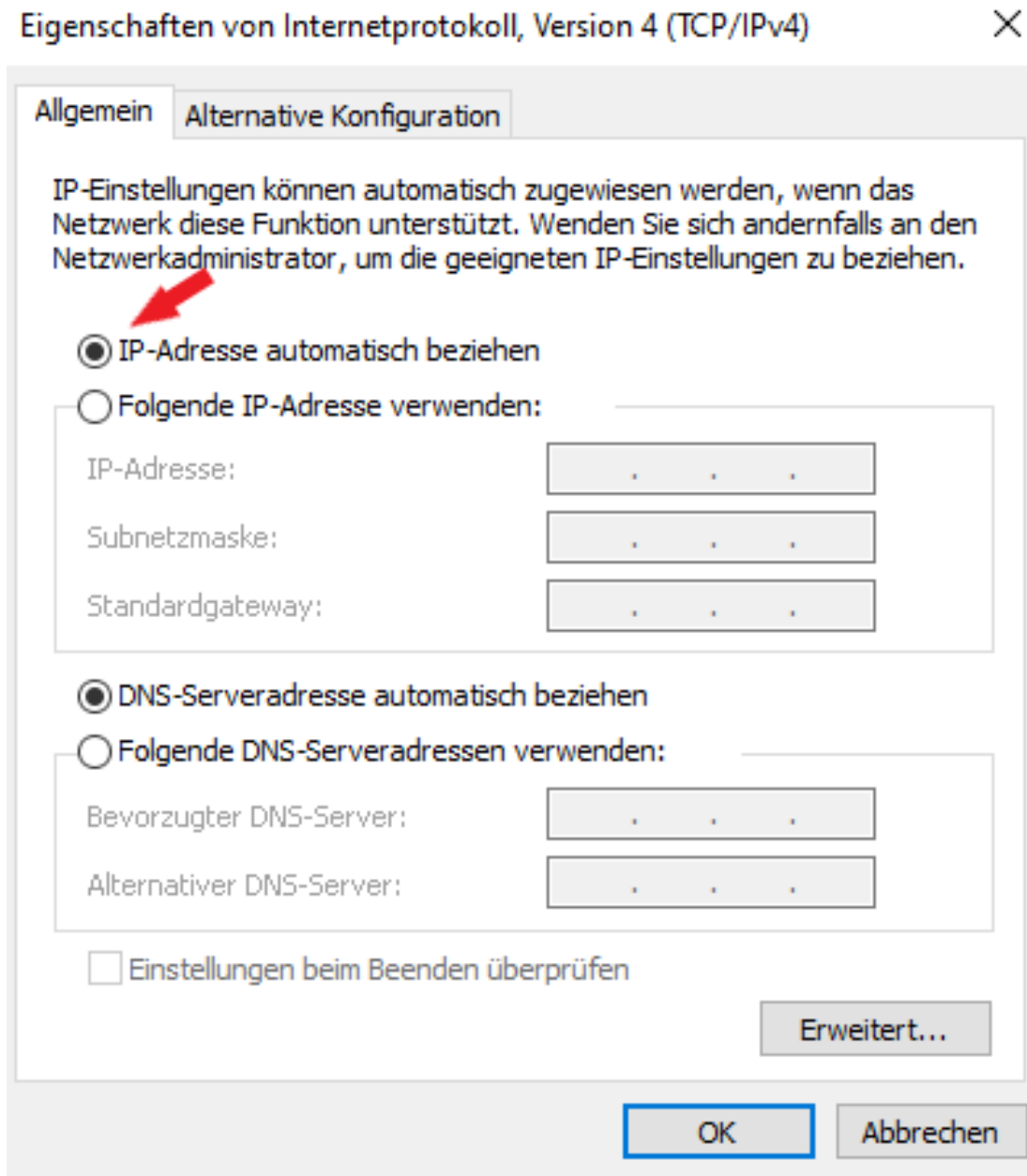
The *Check for updates* function is only available from version 1.50.0 and up.

The software update has now been completed.



Denken Sie daran, die statische Vorgabe nach Abschluss der Konfiguration wieder zu entfernen. Anderenfalls ist das FEMS-Online-Monitoring nicht erreichbar und es können Verbindungsprobleme zum Internet auftreten.

Setzen Sie hierzu die Einstellung zurück auf "IP-Adresse automatisch beziehen", wie unten abgebildet:



Um sicherzustellen, dass alle aktuellen Funktionen auf Ihrem FEMS unterstützt werden, muss ein Update durchgeführt werden. Kontaktieren Sie hierzu unseren Service über die untenstehenden Kontaktdaten.

The configuration is now complete.

4. Install FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation

4. Install FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation

Im FEMS App Center finden Sie alle installierbaren FEMS Apps — wie die FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation.



In dem Benutzerhandbuch [FEMS App Center](#) finden Sie eine ausführliche Anleitung zur Bedienung des FEMS App Center. Des Weiteren wird beschrieben, wie ein Lizenzschlüssel registriert und eingelöst werden kann.

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 cPμ2 Pro Ladestation directly, go to the overview of the {app-name-prefix} Center.



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

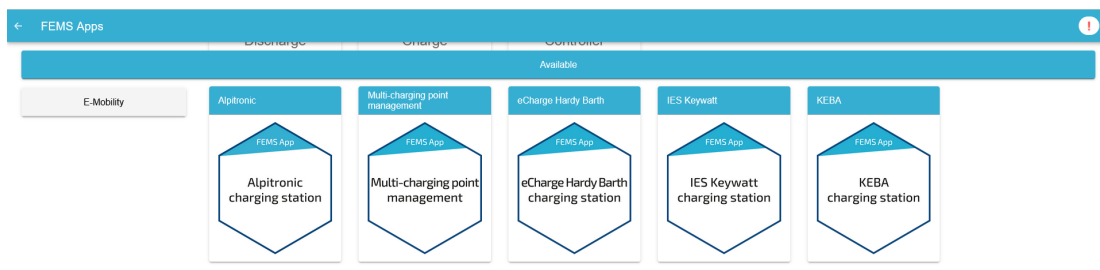


Figure 20. App installation — Variant 2: Step 1

Select the FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation by clicking on it.

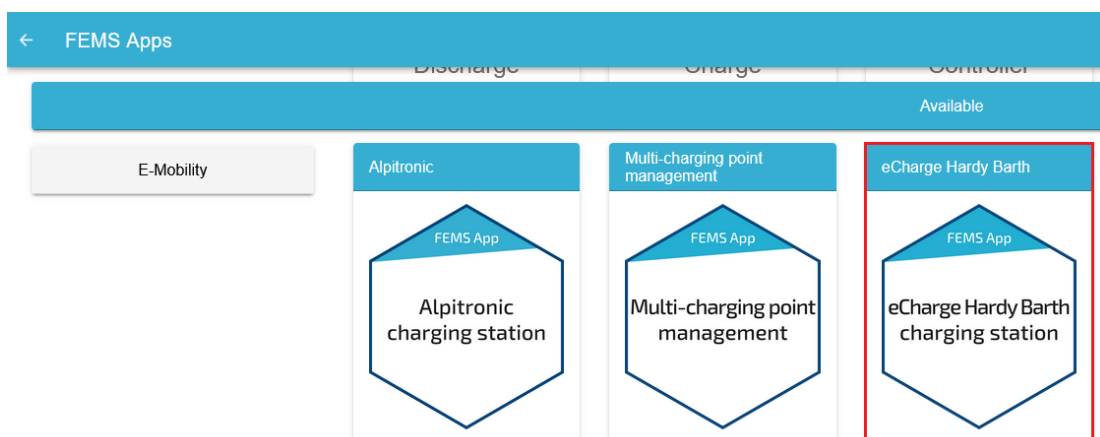


Figure 21. App installation — Variant 2: Step 2

You will then be taken to the app overview.

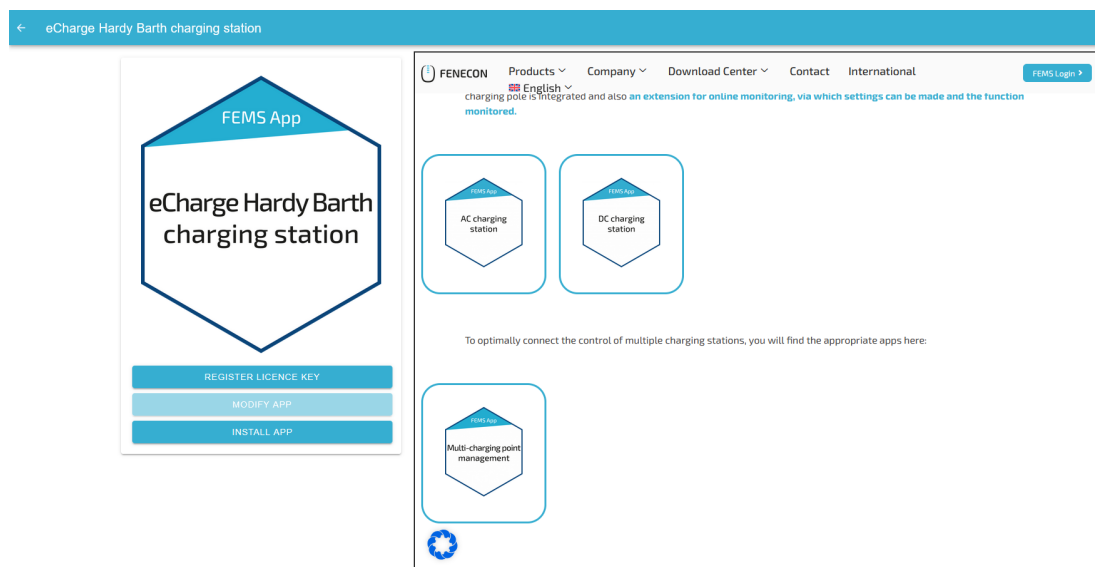


Figure 22. App installation — Variant 2: Step 3

Click on the "Install app" button.

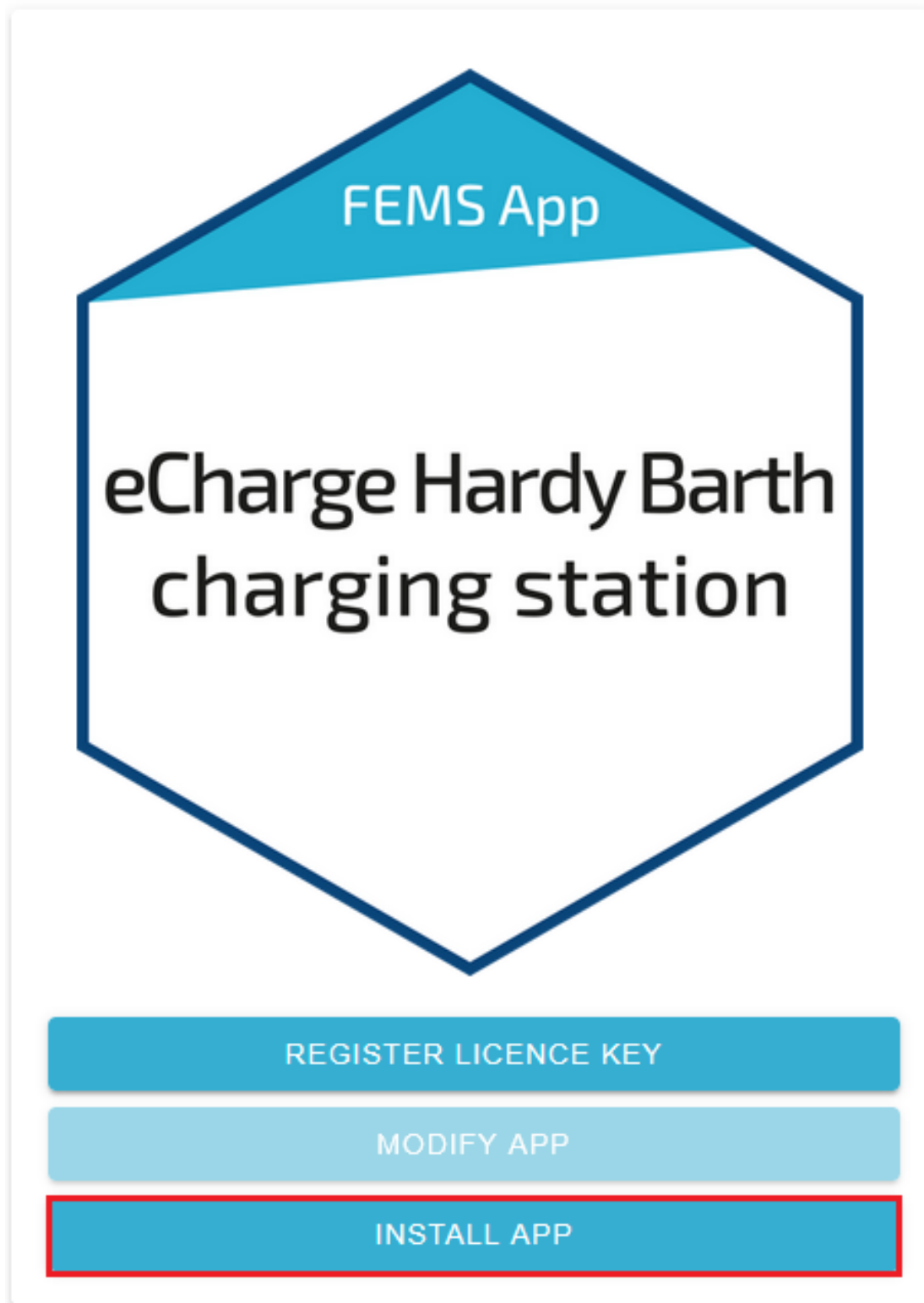


Figure 23. App installation — Variant 2: Step 4

An input mask for redeeming a license key appears.

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 24. 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 25. App installation — Variant 2: Step 5a

4.1. Direct Installation

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.

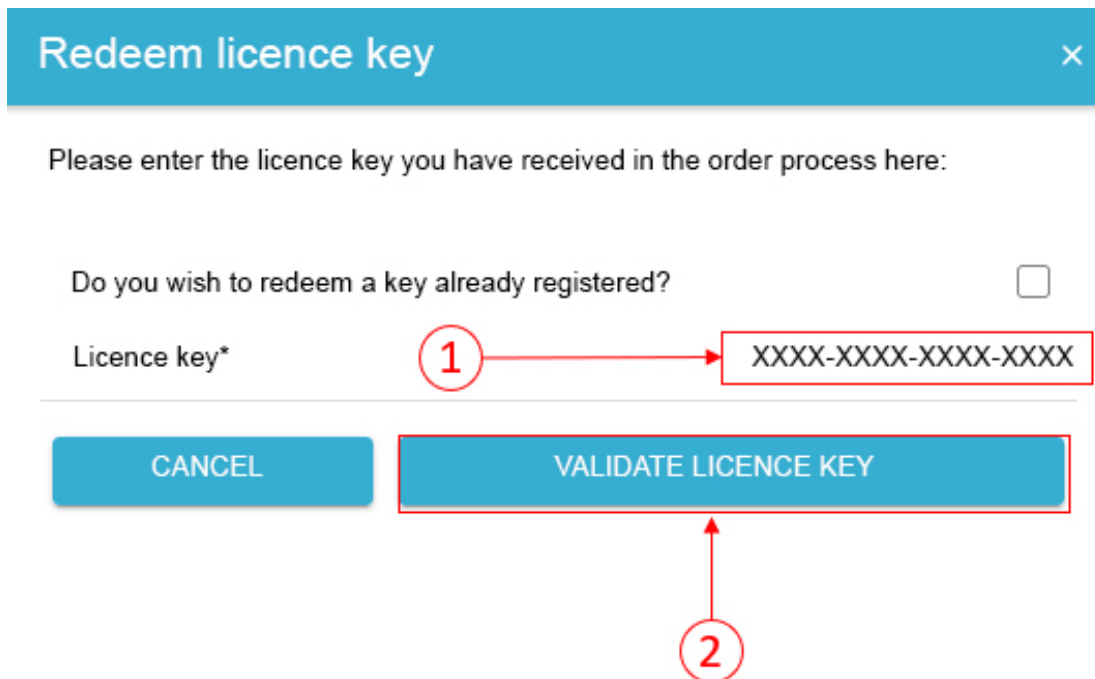


Figure 26. App installation — Variant 2: Step 5b

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.

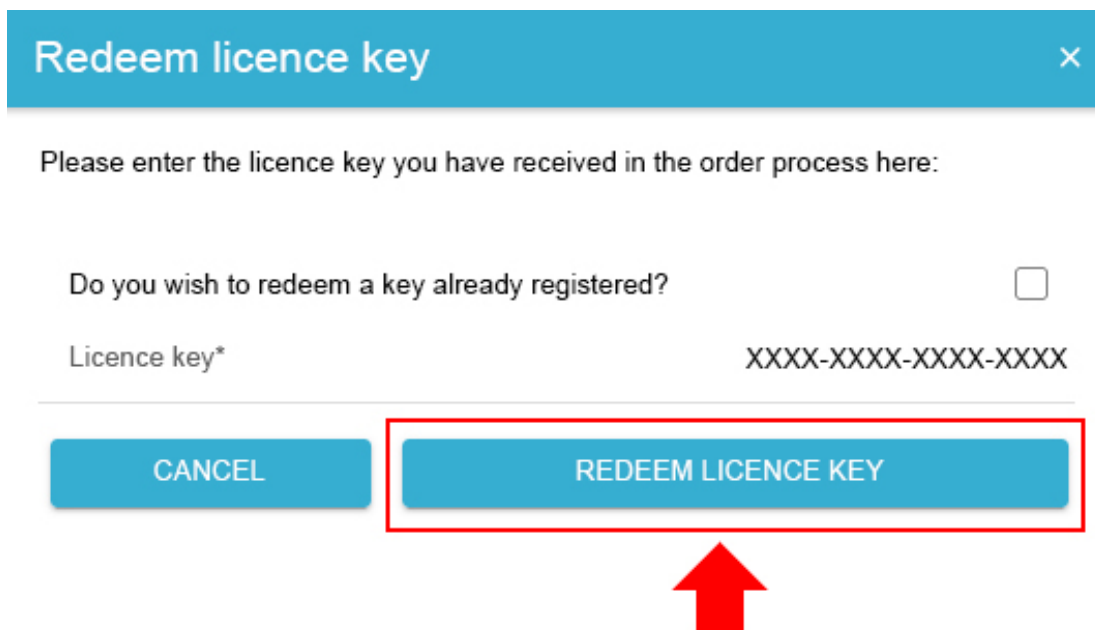


Figure 27. Redeeming a new license key: Step 6

You will then be taken to the installation wizard for FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation.

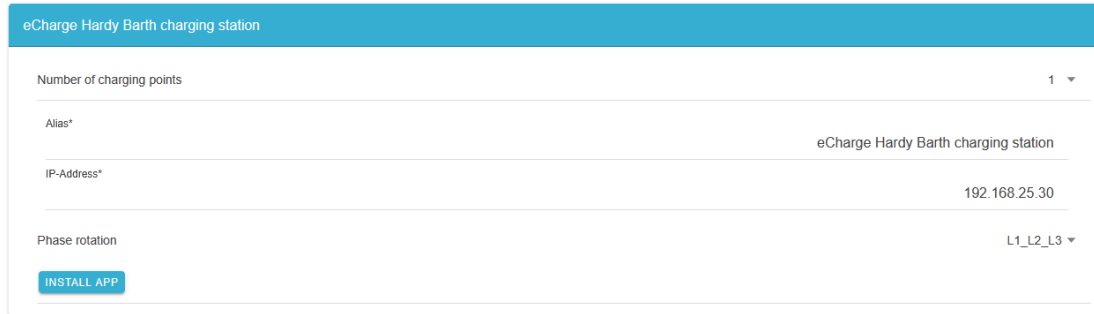


Figure 28. App installation — Variant 2: Step 7

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 cPμ2 Pro, please select "1" for the number of charging points.

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 enthalten ist.

Als Standard ist der Phasenanschluss L1_L2_L3 ausgewählt.

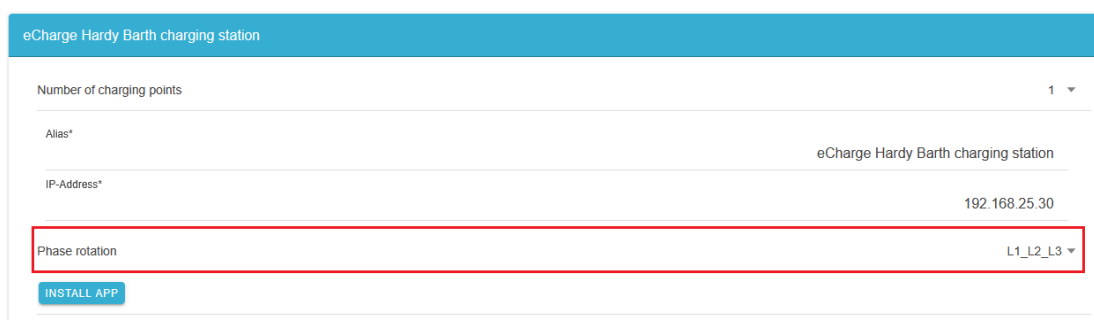


Figure 29. App-Installation — Phasenrotation: Schritt 1

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

4.2. Edit FEMS app

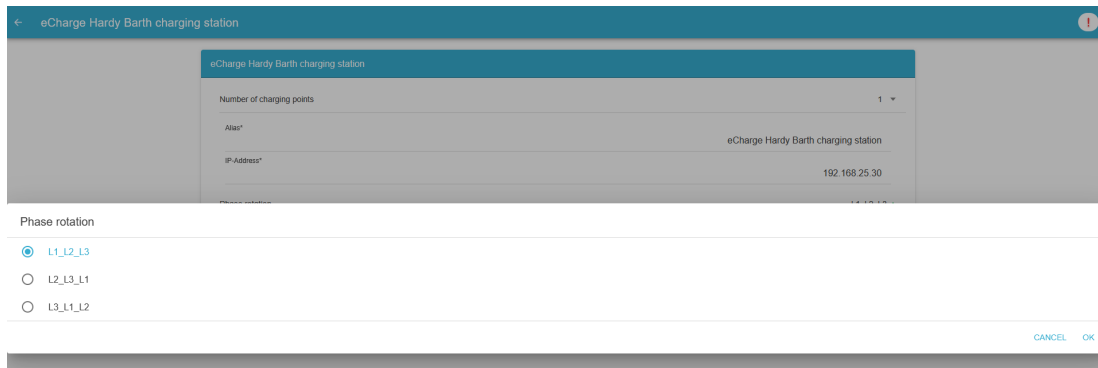


Figure 30. App-Installation — Phasenrotation: Schritt 2

Bestätigen Sie Ihre Auswahl mit "OK".

Then click on "Install app".



Figure 31. App installation — Variant 2: Step 8

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



Bereits installierte Apps können nachträglich bearbeitet werden, um Konfigurationseinstellungen zu ändern. Wählen Sie hierzu die jeweilige App in der FEMS App Center Übersicht aus und klicken Sie auf die Schaltfläche "App bearbeiten". Eine detaillierte Anleitung hierzu finden Sie im Benutzerhandbuch [FEMS App Center](#).

Die FEMS App eCharge Hardy Barth cPμ2 Pro Ladestation wurde erfolgreich installiert.

5. Contact

For support, please contact:

FENECON GmbH
Gewerbepark 6
94547 Iggenbach

Phone — Service: +49 (0) 9903 6280 0

E-Mail — Service: service@fenecon.de

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