

## Installations- und Konfigurationsanleitung — Alpitronic Hypercharger

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### Table of Contents

1. Introduction	2
1.1. Legal provisions	
1.2. Qualification of the installing electrician	
1.3. Symbols used	2
1.4. Darstellungskonventionen	2
2. Produktbeschreibung	3
2.1. Scope of delivery	
2.2. Prerequisites	
3. Commissioning	4
4. Configuration	4
4.1. Ethernet connection	
4.2. Access to the web interface	
4.3. Configuration web interface	9
4.4. General settings (GENERAL)	
4.4.1. Power settings	
4.4.2. Settings with restart	
4.4.3. Software update	
4.5. Network settings (NETWORK)	
5. Install FEMS App Alpitronic Hypercharger	19
5.1. Direct Installation	
5.1.1. Redeem already registered license key	
5.1.2. Redeeming a new license key	
5.2. Edit FEMS app	
6. Contact	27
7. Verzeichnisse	28
7.1. Abbildungsverzeichnis	

#### 1. Introduction

### 1. Introduction

Diese Anleitung dient der Konfiguration der folgenden Alpitronic Hypercharger Ladestationen:

- HYC150
- HYC300

### 1.1. Legal provisions

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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

0	This symbol indicates an imminent danger. If this danger is not avoided, it can lead to death or serious injury.
3	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.
i	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:

- Alpitronic Hypercharger HYC150/HYC300
- 75 kW bzw. 150 kW mit integriertem 3,5-m/5-m-CCS-Anschlusskabel oder 3,5/5-m-CHAdeMO-Anschlusskabel
- Betriebs- und Installationsanleitung Hardwareteil/Softwareteil Hypercharger HYC150/HYC300 (75 kW bis 300 kW)

### 2.2. Prerequisites

Für den Einsatz der Ladestation ist erforderlich:

• FEMS App Alpitronic Hypercharger



Die »FEMS App Alpitronic Hypercharger« ist nicht im Lieferumfang enthalten. Diese muss — falls noch nicht vorhanden — zusätzlich erworben werden.



### 3. Commissioning

### 3. Commissioning



Please follow the instructions in the "Operating and installation instructions hardware part Hypercharger HYC150/HYC300" to install the Alpitronic Hypercharger 150/300 charging station. You can find all Hypercharger installation instructions on the document management system of Alpitronic GmbH — hyperdoc.

Link to hyperdoc website



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.

### 4. Configuration

### 4.1. Ethernet connection

After the electrical installation of the charging station, it must be connected to the customer network via the network interface (LAN) XF2 of the KF5 CRTL EXT control board.





Figure 1. Connection of the KF5 CRTL EXT network interface (LAN)

### 4.2. Access to the web interface

The FEMS is configured by default to try to reach the charging station at the static IP address 192.168.1.100.

It is necessary to set up a static IP address in the same subnet (e. g. 192.168.1.99) in the network adapter settings to reach the charging station from your notebook/PC.

1. Connect the KF5-CRTL-EXT control board to your device (here: notebook) via the RJ45 socket XF1, as shown below, to achieve this.







Figure 2. Connecting the KF5-CRTL-EXT control board to the notebook

2. Open your web browser to access the web interface. Enter the following IP address: 191.168.1.100 to do this

If problems occur in step 2, proceed as follows:

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



- 3. In the new window that opens, click on Properties.
- Double-click on "Internet Protocol Version 4 (TCP/IPv4)" in the new window (cf. 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: 192.168.1.99 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, V	/ersion 4 (TCP/IPv4) X
Allgemein	
IP-Einstellungen können automatisch zu Netzwerk diese Funktion unterstützt. W Netzwerkadministrator, um die geeigne	ugewiesen werden, wenn das Venden Sie sich andernfalls an den ten IP-Einstellungen zu beziehen.
O IP-Adresse automatisch beziehen	
• Folgende IP-Adresse verwenden:	
IP-Adresse:	192.168.1.99
Subnetzmaske:	255 . 255 . 255 . 0
Standardgateway:	
ODNS-Serveradresse automatisch b	peziehen
Folgende DNS-Serveradressen ver	rwenden:
Bevorzugter DNS-Server:	
Alternativer DNS-Server:	
Einstellungen beim Beenden über	prüfen
	Erweitert
	OK Abbrechen

6. Confirm the entries.

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#### 4.2. Access to the web interface

The charging station can then be configured via the web interface. To do this, enter the IP address of the charging station (192.168.1.100) in the address bar of the browser.

You will be prompted to enter your user name and password. Enter the default values here:

User name: admin

Password: admin123

You will then be taken to the overview of the web interface as shown below.



We recommend that you change your user name and password after the first use. Use the "Password Configuration" button to do this

### 4.3. Configuration web interface

## HyperCharger Configuration

Setup the configuration files for HYC\_150\_21BZ1183A

### hyper charger

### **Network Configuration**

Access the network configuration interface.



### HyperCharger Status

View the status of the stack, and the processes ongoing.



### How it works

- Select one of the possible configurations,
- and please try to avoid using the go back
  - function (may overwrite unwanted changes).



Click to Expand

## OCPP

### **OCPP** Configuration

Access the configuration for the ocpp parameters, located in the OCPP\_config folder on root.



General setting like the whitelist of the NFC readed and Max Power drain.



### **Password Configuration**

Change the username and password.



System Reset Reset the HYC.

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Figure 3. Web interface

### 4.3. Configuration web interface

Only the "GENERAL" (G) and "NETWORK" (N) buttons are relevant for configuring the Hypercharger. All other settings should remain unchanged to ensure functionality.

Template by OS Templates

	HyperCharger Co Setup the configuration files for HYC_150_21BZ1		hyper	charger	
Ν	NETWORK	STATUS HyperCharger Status	How it w Select one and pleas function (i	OTKS e of the possible e try to avoid u may overwrite	e configurations, sing the go back unwanted changes).
	Access the network configuration interface.	View the status of the stack, and the processes ongoing.	Name	Status	Frror
				unconnected	NoError
	OCPP	GENERAL	CCS Click to Expa	charging	NoError
	OCPP Configuration Access the configuration for the ocpp parameters, located in the OCPP_config folder on root.	General Settings General setting like the whitelist of the NFC readed and Max Power drain.	G		
	PASS	RESET			
	Password Configuration	System Reset			
	Change the username and password.	Reset the HYC.			
Figure	Copyright © 2019 - All Rights Reserved - alpitroni	c GmbH.		Temp	plate by OS Templates

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## 4.4. General settings (GENERAL)

### 4.4.1. Power settings

1. Under the "Power" button (1), set the "ModBus Enabled" setting (2) to "True" to enable communication between the charging station and the FEMS.

4.4. General settings (GENERAL)



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Figure 5. Power settings

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The following settings can be configured here, among others:

\*fields highlighted in red need a service restart in order to become effective

• Silent Mode\_: When "Silent Mode" is activated, the Hypercharger reduces the charging power to reduce sound emissions.

F

G

• *Grid Fallback Power*: Maximum grid fallback power of the charging station as soon as the connection to load management is interrupted.



If *Grid Fallback Power* is configured, this must also be done in the "OCCP Configuration" interface.

06:00 - 21:59

22:00 - 05:59

06:00 - 21:59

22:00 - 05:59

50 dB(A)

35 dB(A)

45 dB(A)

35 dB(A)

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You can access this via the button of the same name, as shown below:



Figure 6. OCCP Configuration

Scroll down to the "Power settings", as shown in the illustration below:

TransactionMessageAttempts	720	How often the Charge Point should try to submit a transaction-related message when the Central System fails to process it.
TransactionMessageRetryInterval	60	How long the Charge Point should wait before resubmitting a transaction-related message that the Central System failed to process.
UnlockConnectorOnEVSideDisconnect	true 🗸	When set to true, the Charge Point SHALL unlock the cable on Charge Point side when the cable is unplugged at the EV.
WebSocketPingInterval	60	0 disables client side websocket Ping/Pong. In this case there is either no ping/pong or the server initiates the ping and client responds with Pong. Positive values are interpreted as number of seconds between pings. Negative values are not allowed.
ChargePointMaxProfileEnabled	false 🗸	Enable use of ChargePointMaxProfile.
ConnectorPowerLimit	50000, 50000	Connectors Power Limit.
GridFallbackPower	10000	Power limit to fall back to in case communication to load management system gets interrupted
GridFallbackTimeout	240	Timout intervall to consider communication to load management systemt interrupted
AutoCharge	false 🗸	Allows charging session to start with Vehicle MAC Address
ChargePointModelLagacyMode	true 🗸	Allows for Model Legacy Boot Notification
RemoteTxStoppableLocally	false V	When set to true, remote transactions can be stopped locally via GUI
KioskModeWhenOffline	false 🗸	Change to KioskMode when Charger is offline

Adjust the corresponding entries according to the settings made under "Power".

- *ConnectorPowerLimit*: Max. Charging power per charging point, e. g. 50000, 50000 to limit the maximum charging power of both charging points to 50 kW each.
- GridFallbackPower\_: Max. Charging power as fallback value as soon as the connection to the load management is interrupted, e. g. 10000 to limit the maximum charging power to 10 kW.

Use the "INDEX" button (3) to return to the overview of the web interface.

### 4.4.2. Settings with restart

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Input fields colored red (see figure below) always require a restart of the charging station.

### Maximum power drain from connection to the grid\*

Max Grid Power	95000	W	
Target Cos(Phi)	0.990 🗘	IND	~
Grid Fallback Power	10000	W	
Grid Fallback Timeout	240	S	
Charging Strategy	Fair Share		~
ModBus Enabled	True		~
Silent Mode	OFF		~
Silent Mode Distance	0.00	m	
Save Settings			

Figure 7. Example of settings that require the charging station to be restarted

### Proceed as follows:

- 1. Save the entries using the "Save Settings" button.
- 2. Use the "INDEX" button to return to the web interface overview.
- 3. Click on the "RESET" button as shown below.

### 4.4. General settings (GENERAL)

# HyperCharger Configuration Setup the configuration files for HYC\_150\_21BZ11B3A

### hyper charger

Select one of the possible configurations, and please try to avoid using the go back function (may overwrite unwanted changes).

### **Network Configuration**

Access the network configuration interface.



### HyperCharger Status

View the status of the stack, and the processes ongoing.





### **OCPP** Configuration

Access the configuration for the ocpp parameters, located in the OCPP\_config folder on root.



### **General Settings**

General setting like the whitelist of the NFC readed and Max Power drain.

Nar	ne	Status	Error
	CCS	charging	NoError
	CCS	charging	NoError

Click to Expand

How it works



**Password Configuration** Change the username and password.



4. Click on the "Hard Reset HYC" button to restart the charging station, as shown in the illustration below:

Reset Hypercharger	INDEX
Here you can restart the processes running in the HYC Soft Reset HYC	
Here you can reboot the HYC and the processes running Hard Reset HYC	
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5. Wait until the charging station has restarted and is accessible again.

#### 4.5. Network settings (NETWORK)

6. Check whether the settings you have made have been accepted.

### 4.4.3. Software update

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

Firmware updates can be obtained and downloaded from the manufacturer's website https://account.hypercharger.it/login [here].



An account is required to download firmware updates. If you do not yet have an account, you can create one using the link above.

Save the downloaded firmware on your device (e.g. notebook).

New firmware updates can be uploaded using the "Software update" button (1).

Update Softwar	e		2 INDEX
WhiteList NFC	Power	GUI	Software Update
Software RollBack C	onfigure Stacks	CreditCard Terminal	
Software Update Allowed			
Upload the update package:			
Durchsuchen) Keine Datei ausgewählt.	Daten absenden		
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Figure 8. Web interface software update

Proceed as follows:

- 1. Call up the Software Update tab
- 2. Select previously downloaded firmware file with Browse....
- 3. Click on Send data

Use the "INDEX" button (2) to return to the overview of the web interface.

### 4.5. Network settings (NETWORK)

The charging station is preconfigured at the factory with the IP address: **192.168.1.100**, as shown in the graphic below under the "Ethernet Configuration" tab:



Network Config	guration		3 INDEX
Ethernet Configuration	SIM	OpenVPN	Preferred Network
Current IP: 192.168.1.100 Write the IP Configuration Automatic (DHCP) Manual Static IP Address: 192.168.1.100 Subnetmask: 255.255.0 Default Gateway: 192.168.1.1 Primary DNS: 8.8.8 Secondary DNS: Save Configuration Reset Form	2	Hov va cc th fie	w it works ou can either select the Automatic(dhcp) onnection or the Manual connection for e ethernet line. Please fill in all elds for the Manual option.
Copyright © 2019 - All Rights Reserved - a	lpitronic GmbH.		Template by OS Templates

Figure 9. Network settings

If several Hyperchargers are operated in a network, the "Write the IP Configuration" item (2) must be set to "Automatic (DHCP)". This assigns a dynamic IP address to the Hypercharger. This IP address must be determined in the DHCP server, e. g. the router, or via a network scan. It will be needed later to install the FEMS app. From now on, the Hypercharger's web interface can be accessed under the newly assigned IP address.

Use the "INDEX" button (3) to return to the overview of the web interface.



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

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

### 4.5. Network settings (NETWORK)

Eigenschaften von Internetprotokoll, Version 4 (TCP/IPv4)

Х

Allgemein	Alternative Konfiguration			
IP-Einstel Netzwerk Netzwerk () IP-A	lungen können automatisch a diese Funktion unterstützt. administrator, um die geeign dresse automatisch bezieher	zugewiesen Wenden Sie eten IP-Eins n	werden sich an stellunge	n, wenn das Idernfalls an den en zu beziehen.
- O Folg	ende IP-Adresse verwenden	:		
IP-Adr	esse:			
Subnel	zmaske:			
Standa	ardgateway:			
	-Serveradresse automatisch ende DNS-Serveradressen v	beziehen erwenden:		
Bevorz	ugter DNS-Server:			
Alterna	ativer DNS-Server:			
Ein	stellungen beim Beenden übe	erprüfen		Frweitert
			ОК	Abbrechen

Die Konfiguration ist hiermit abgeschlossen.

### 5. Install FEMS App Alpitronic Hypercharger

In the FEMS App Center you will find all installable FEMS Apps — such as the FEMS App Alpitronic Hypercharger.



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.

### 5.1. Direct Installation

To install the FEMS App Alpitronic Hypercharger directly, go to the overview of the FEMS App Center.



Figure 10. App installation — Variant 2: Step 1

Select the FEMS App Alpitronic Hypercharger by clicking on it.



Figure 11. App installation — Variant 2: Step 2

You will then be taken to the app overview.



### 5.1. 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.



### 5.1. 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-XXX	Х		
	CANCEL	REDEEM LICENCE KEY			
igure 14. App	installation — Variant 2: Step 5				

You have two options here.

### 5.1.1. 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 ha	ve received in the order process here:	
Do you wish to redeem a key alr	ady registered?	
Registered licence key*		
Licence key*	XXXX-XXXX-XXXX-XXXX	
CANCEL	REDEEM LICENCE KEY	
	2	



### 5.1.2. 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.

Redeem licence k	ey ×	
Please enter the licence key	you have received in the order process here:	
Do you wish to redeem a k Licence key*	tey already registered?	]
CANCEL	VALIDATE LICENCE KEY	
	2	

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.





### 5.1. Direct Installation

You will then be taken to the installation wizard for FEMS App Alpitronic Hypercharger.

Alpitronic charging station	
Number of charging points	1 *
IP-Address	192.168.1.100
Alias*	Alpitronic charging station
INSTALL APP	

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 Alpitronic Hypercharger HYC150 or HYC300, please select "2" for the number of charging points.

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

· Alpitronic charging statior	n	
	Alpitronic charging station	
	Number of charging points	1 🔺
	IP-Address	192.168.1.100
	Alias"	Alpitronic charging station
lumber of charging points		
1		
2		
3		
4		

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 Alpitronic Hypercharger HYC150 or HYC300 must be entered separately.

Number of charging points	2
P-Address	
	192.168.1.
harging point 1	
Alias*	
	Alpitronic charging station - Charging point 1
harging point 2	
Alias*	
	Alpitronic charging station - Charging point 2
	, apasitic charging station - onlarging point i

Figure 20. App installation — Variant 2: Step 9

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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 adjustm taken from the initial c	ent, the maximum grid withdrawal will be ommissioning of your energy storage systen	n.
Enter this value below 22 kW).	in watts (e. g. 22,000 for a grid connection of	of
Max. grid draw*	20010 ≎	Natt
CANCEL	ОК	

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".

Then click on "Install app".



### 5.2. Edit FEMS app

Apitronic charging station	
Number of charging points	2
IP-Address	192.168.1.10
Charging point 1	
Alias*	Alpitronic charging station - Charging point 1
Charging point 2	
Allas*	Alpitronic charging station - Charging point 2
Limitation Maximum charge from grid	
INSTALL APP	

Figure 22. 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.

### 5.2. Edit FEMS app



Apps that have already been installed can be edited retroactively to change their configuration settings. To do this, select the respective app in the FEMS App center overview and click on the "Edit app" button. Detailed instructions can be found in the user manual FEMS App Center.

Die FEMS App Alpitronic Hypercharger wurde erfolgreich installiert.



### 6. Contact

For support, please contact:

FENECON GmbH Gewerbepark 6 94547 Iggensbach

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

### 7. Verzeichnisse

### 7.1. Abbildungsverzeichnis

Figure 1. Connection of the KF5 CRTL EXT network interface (LAN) Figure 2. Connecting the KF5-CRTL-EXT control board to the notebook Figure 3. Web interface Figure 4. Web interface Figure 5. Power settings Figure 6. OCCP Configuration Figure 7. Example of settings that require the charging station to be restarted Figure 8. Web interface software update Figure 9. Network settings 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 — Variant 2: Step 11