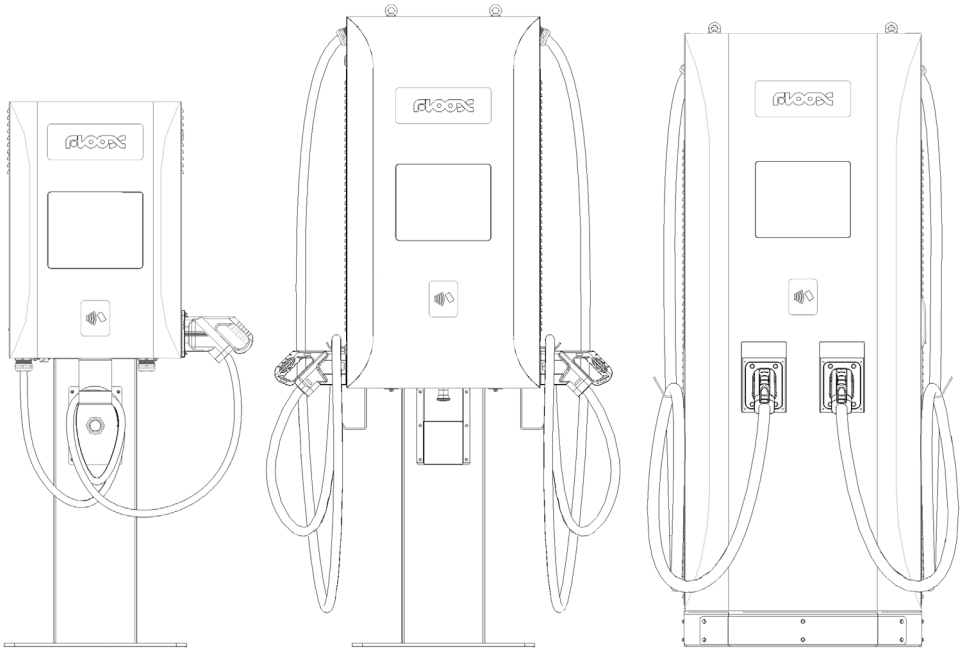
User Manual



Floox chargers user manual

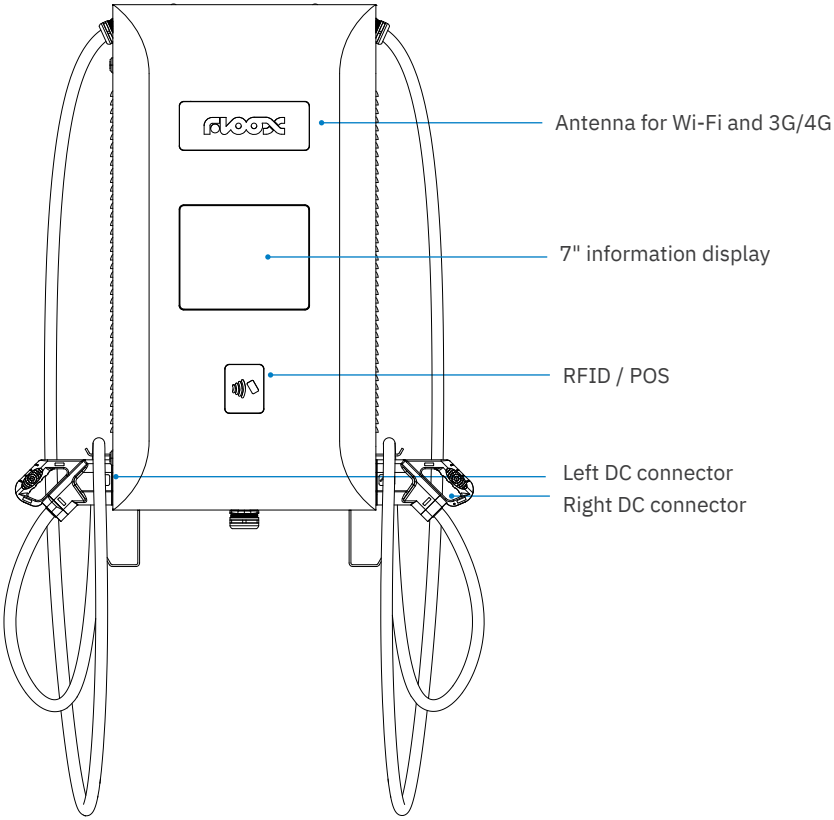
CONTENTS

Introduction

The aim of this document is to outline the implementation process and the main commands. Please complete the INSTALLATION MANUAL document in this manner.

Warning! Do not use an extension cable set or a second set of cables in addition to the cable set for connecting the electric vehicle to the charger.
Only adapters approved by the vehicle manufacturer should be used.

1. Floox charger



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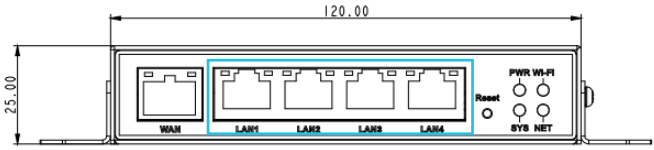
Note:
In accordance with the requirements of EN-17186, this document establishes harmonised identifiers for electric road vehicle power supplies. The requirements of this standard are intended to complement the information needs of users in terms of compatibility between EV charging stations, cable assemblies and vehicles on the market. The identifier is intended to be displayed on charging stations, vehicles, wiring harnesses, electric vehicle dealers and user manuals as described above (for the CE model).

2. Network Configuration

2.1 Connect to a wired network

The following section explains how to connect the Lyra 60-80 charger to your wired network.



Step 1
In order to configure the wired (WAN) gateway, you must first access the Router configuration. Note the orientation of the Router and locate the connections marked "LAN1" to "LAN4" at the bottom. Connect an RJ45 cable between your PC and the Router to any of the available LAN ports.

Step 2
Your Router is configured within the 192.168.0.x subnet. Configure your PC to access the Router using the following settings:

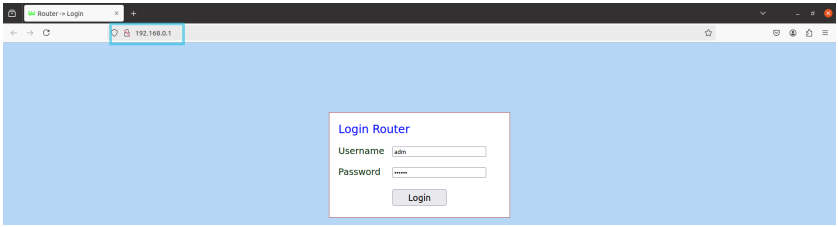
IP: 192.168.0.101*
Mask: 255.255.255.0
Gateway: 192.168.0.1

**Do not use 192.168.0.1, 192.168.0.100. If your Router has DHCP enabled, it will assign one automatically.*

IMPORTANT: Restart your PC's network connection if necessary for the changes to take effect.

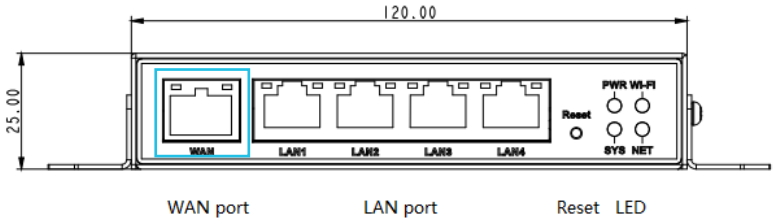
The following section explains how to connect the Lyra 60-80 charger to your wired network. Please enter the following details to access it:

Username: adm
Password: 123456



Step 3

Note the orientation of the Router and locate the WAN connector on the bottom. That connector is silkscreened "WAN" and adjacent to the Ethernet LAN inputs. Connect the cable to your internal network here.

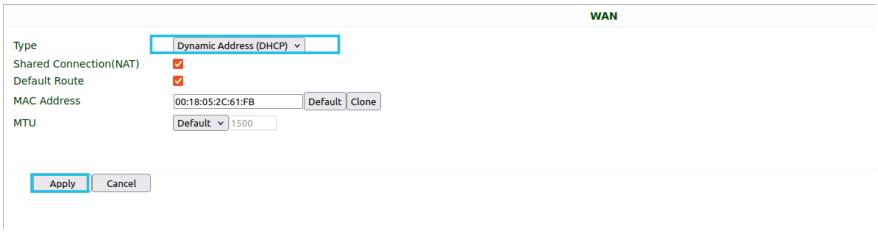


Step 4

Configure the WAN connection according to the characteristics of your organisation. Access the "Network > WAN" submenu to configure the connection parameters.

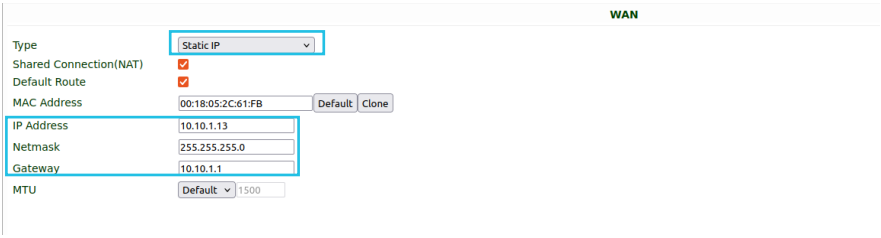
If you want to use dynamic IPs assigned by your own network, enable the "DHCP" option in the "Type" field and click "Apply". You can change the Router's MAC if necessary in the "MAC Address" field.

Check with your network manager to confirm that you can use such a configuration.



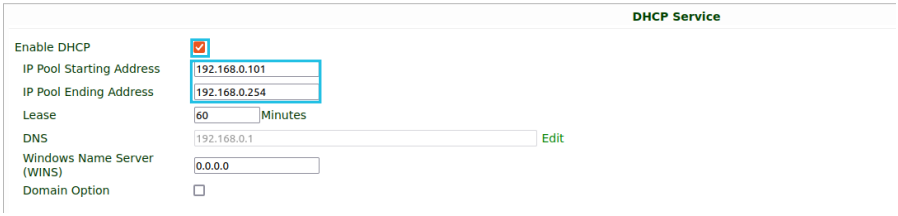
If you want to use a static configuration, select the "Static IP" option in the "Type" field. Next, configure the "IP Address", "Netmask" and "Gateway" parameters according to your network configuration and click "Apply". You can change the Router's MAC if necessary in the "MAC Address" field.

Check with your network manager to confirm that you can use such a configuration.



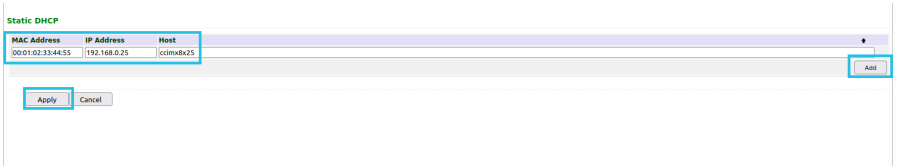
Step 5

Now configure your LAN network. To do this, go to "Service / DHCP Service" and activate the DHCP service. Since the IP 192.168.0.100 is reserved for the charger application, within the range of IPs, choose between 192.168.0.101 and 254 so that any other element connecting to the LAN port will have an IP within that range.



If you need to set the IPs of any of your devices, add them in the "Static DHCP" field in the same section. Fill in the "MAC Address", "IP Address" and "Host" fields and click "Add".

Lastly, click on "Apply" to apply the changes.



2.2 Connect to wireless network

The following section explains how to connect the Lyra 60-80 charger to your wireless network.

Step 1

Your Router is configured within the 192.168.0.x subnet. Configure your PC to access the Router using the following settings:

IP: 192.168.0.101*
Mask: 255.255.255.0
Gateway: 192.168.0.1

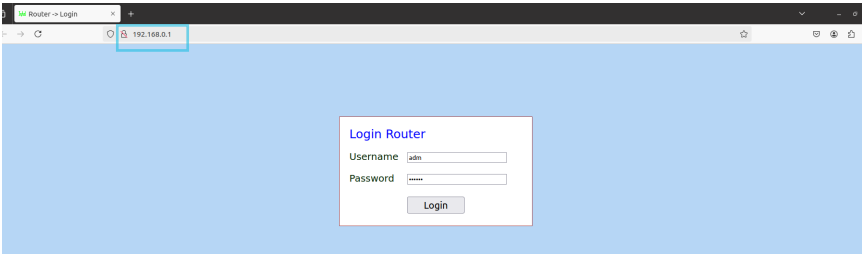
**Do not use 192.168.0.1, 192.168.0.100. If your Router has DHCP enabled, it will assign one automatically.*

IMPORTANT: Restart your PC's network connection if necessary for the changes to take effect.

Step 2

From your usual browser access the IP 192.168.0.1 and you will see the Router login screen. Please enter the following details to access it:

Username: adm
Password: 123456



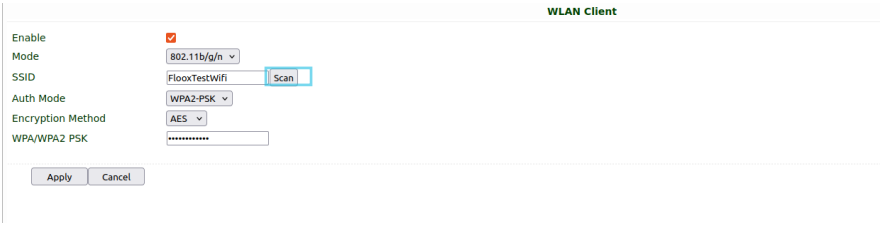
Step 3

In order to connect the Router to an existing Wi-Fi network you must change the operating mode from "AP" to "STA". To do this, go to the menu "Network > Switch WLAN Mode". Under "WLAN Type" select the "STA" option and click "Apply". The Router will save the changes.

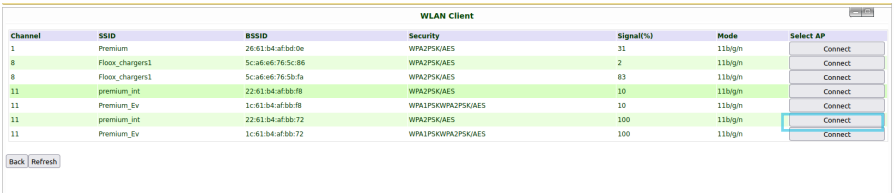
Step 4

The Router must be rebooted in order to change the WLAN mode after the configuration has been changed. To do this, go to "System > Reboot". In the popup that appears, select "OK". After a few seconds, the Router will restart automatically. Wait until the process has been completed.

Step 5

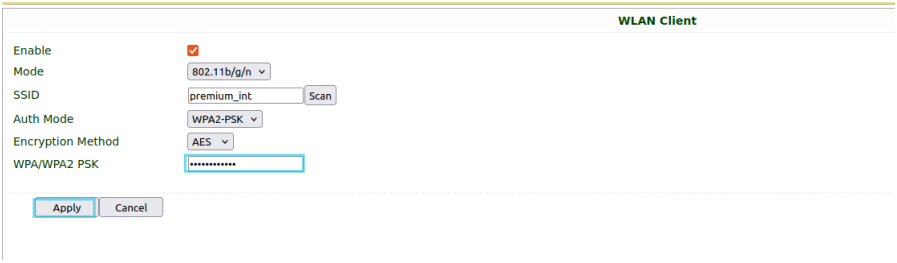


Check that the "WLAN Client" option appears in the "Network" menu. Select it to access the WLAN Client submenu. Make sure that the "Enable" option is selected. In the SSID section click on "Scan". You will then be presented with a list of the different Wi-Fi networks available in your environment.



Step 6

Select the Wi-Fi option you want to connect to and click on "Connect"

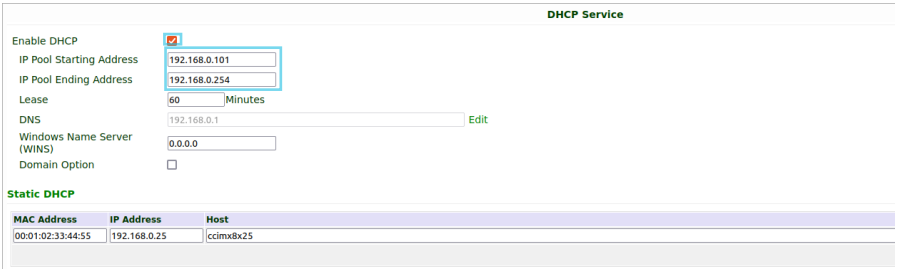


Enter the network password and click "Apply". The Router will connect to the desired Wi-Fi. If you check the list of networks, it should appear as "Connected".

IMPORTANT: Check that you can meet the requirements for the Wi-Fi network to which you need to connect. Pay special attention to the password, authentication mode and encryption. If you cannot connect, first check if you meet the minimum requirements. Consult your network manager for more details.

Step 7

Now configure your LAN network. To do this, go to "Service / DHCP Service" and activate the DHCP service. Since the IP 192.168.0.100 is reserved for the charger application, within the range of IPs, choose between 192.168.0.101 and 254 so that any other element connecting to the LAN port will have an IP within that range.

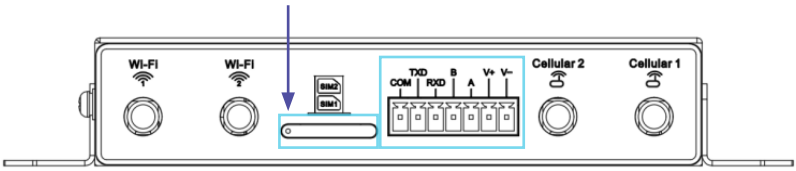


If you need to set the IPs of any of your devices, add them in the "Static DHCP" field in the same section. Fill in the "MAC Address", "IP Address" and "Host" fields and click "Add".

Lastly, click on "Apply" to apply the changes.

2.3 SIM configuration

Step 1
Note the orientation of the Router and locate the SIM slot on the top of the Router. This is marked "SIM1 / SIM2" and is located adjacent to the power and expansion cable.



Step 2
We recommend disconnecting the Router from the power supply before proceeding to install the SIM. Disconnect the power connector before removing the SIM tray.

Step 3
Remove the tray by pressing a thin rod or paper clip into the recess on the side of the tray (see the blue arrow in the picture).

Step 4
The SIM tray has space for two standard SIM cards. If using a SIM, insert it in the SIM1 position by orienting it correctly according to the notch in the SIM holder. If you wish to use two SIMs in your system, follow the same process with your other SIM in the second slot.

By default the Router uses the network determined by SIM1 as the preferred network. If you use two SIMs, place your preferred network in the SIM1 position and your secondary network in SIM2.
Note the orientation of the Router and locate the SIM slot on the top of the Router. This is marked "SIM1 / SIM2" and is located adjacent to the power and expansion cable.

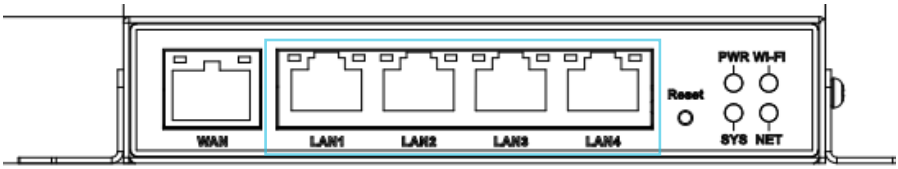
Note: Note the orientation of the SIM tray when inserting it back into the Router. Do not force it if it does not fit. Make sure that it is oriented correctly and that the base is free of objects and/or dirt. Check that the SIM(s) are properly positioned in the tray.

Step 5

Re-power the Router by connecting the cable you removed in Step 2. Wait a few seconds for the Router to reboot and start up.

Step 6

In order to configure the Mobile gateway you must access the Router configuration. Connect an RJ45 cable between your PC and the Router to any of the available LAN ports (LAN1 to LAN4).



Step 7

Your Router is configured within the 192.168.0.x subnet. Configure your PC to access the Router using the following settings on your PC:

IP: 192.168.0.101*
Mask: 255.255.255.0
Gateway: 192.168.0.1

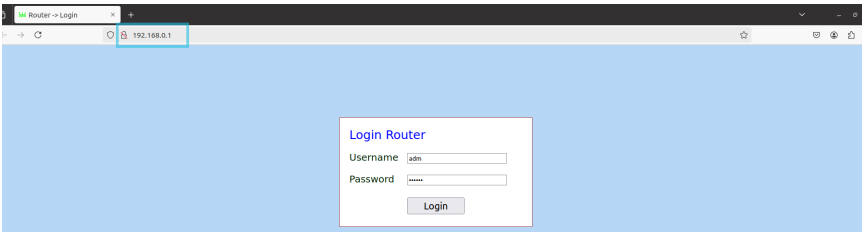
**Do not use 192.168.0.1, 192.168.0.100. If your Router has DHCP enabled, it will assign one automatically.*

Restart your PC's network connection if necessary for the changes to take effect.

Step 8

From your usual browser access the IP 192.168.0.1 and you will see the Router login screen. Please enter the following details to access it:

Username: adm
Password: 123456



Step 9

Access the submenu "Network > Dial Interface / Cellular" to configure the connection parameters.

Step 10

Within the "Profiles" menu, define the configuration that your SIM will use and click on "Add".

APN
Access Number
Authentication Type

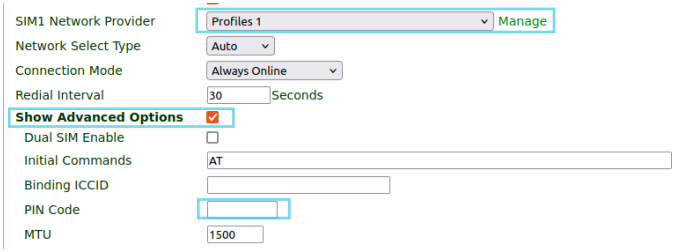
Your telecommunications provider should have provided you with the required configuration data; add them according to your premises.

Step 11

Under "SIM1 Network Provider" choose the profile you have just created.

Step 12

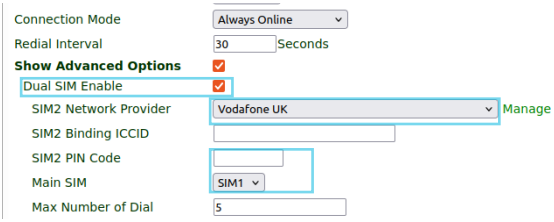
Check the "Show Advanced Options" option to display the advanced options. Locate the "PIN Code" field and enter your SIM PIN. Keep the rest of the default options. Your equipment will use this network to connect to your mobile network coverage.



Step 13
Click on "Apply" to save the settings.

OPTIONAL: If you are using two SIMs, follow the steps below.

Step 14
Enable the "Dual SIM Enable" option. New options will appear in the menu.



Step 15
Define a new communications profile for it in the same way as described in Step 10, but with your second SIM.

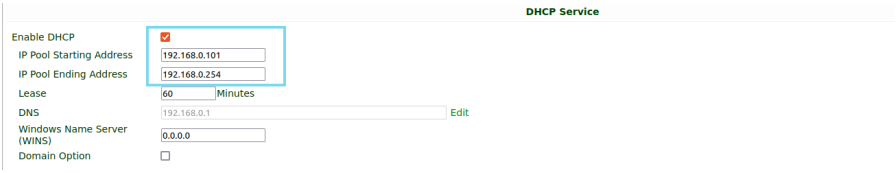
Step 16
Locate the "SIM2 Network provider" field and select the profile you have just created.

Step 17
Locate the "SIM2 PIN Code" field and enter the SIM2 PIN.

Step 18
Go to the "Main SIM" field and select your preferred SIM. By default the Router uses SIM1 as the preferred SIM. Select SIM2 if you prefer to use this as a favourite. Keep the rest of the default options.

Step 19
Click on "Apply" to save the settings.

Step 20
Now configure your LAN network. To do this, go to "Service / DHCP Service" and activate the DHCP service. Since the IP 192.168.0.100 is reserved for the charger application, within the range of IPs, choose between 192.168.0.101 and 254 so that any other element connecting to the LAN port will have an IP within that range.



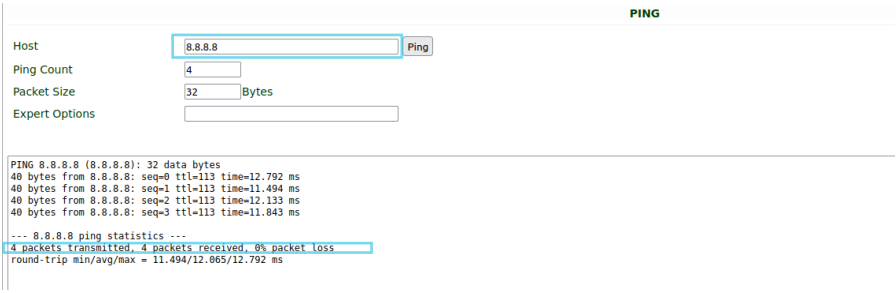
If you need to set the IPs of any of your devices, add them in the "Static DHCP" field in the same section. Fill in the "MAC Address", "IP Address" and "Host" fields and click "Add".

Lastly, click on "Apply" to apply the changes.

2.4 Check Internet connection

If you want to check that you have a external connection, the easiest way to do this is to use the PING command. Go to the Router's "Tools > PING" menu, fill in the "Host" field with a known Web or IP of your target network and press the "Ping" button.

In this example the charger allows access to the Internet, you can ping 8.8.8.8 (Google).

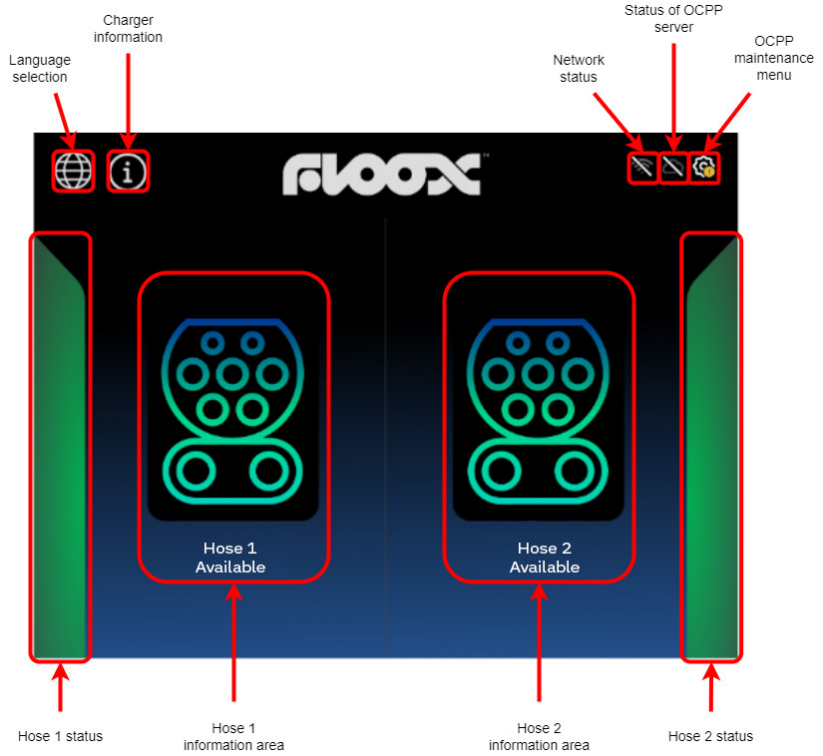


Note: In order to test the PING, the destination IP must have ICMP service enabled. Consult your network manager for more details.

3. Operating process

The screen is mainly divided into 3 areas:

- **the top one:** which allows you to configure and obtain information from the charger,
- **the left-hand one**: intended for the control of hose 1,
- **the right-hand one**: intended for the control of hose 2.



Language selection:
The globe icon at the top left allows you to select the language you want to use. Currently you can choose between Spanish, Catalan and English.

Charger information:
The charger information icon will show you relevant information such as SW version, FW and other relevant data.

Network status:
The icon indicates whether your charger is connected to the Internet. If you have not configured the network or are offline it will appear as disabled.

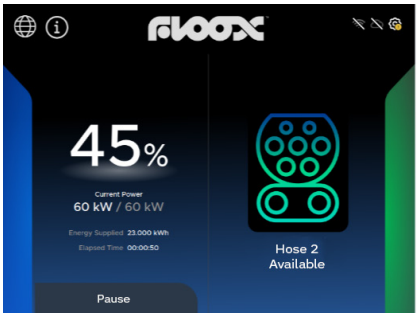
OCPP server status:
The icon indicates the status of the OCPP server. If you have not configured any or it is disconnected, it will appear as disabled.

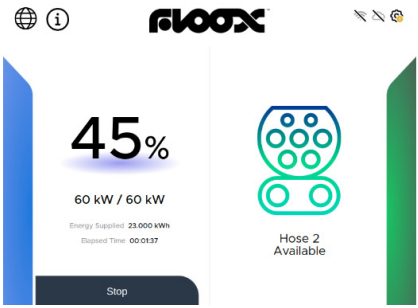
OCPP server maintenance menu:
This option allows you to make specific settings related to the external OCPP server and connection.

Hose status 1/2:
The colours signify as follows:
- Green: the hose is available,
- Red: the hose is not available,
- Blue: it is charging.

Hose information area 1/2:
From this area you can control the charger and monitor the charging status and any errors. The design of this area depends on the current status of the charger. For more details, please refer to the detailed charger operation section.

The charger also has a day/night mode. Night mode uses dark colour tones, while day mode uses light tones.





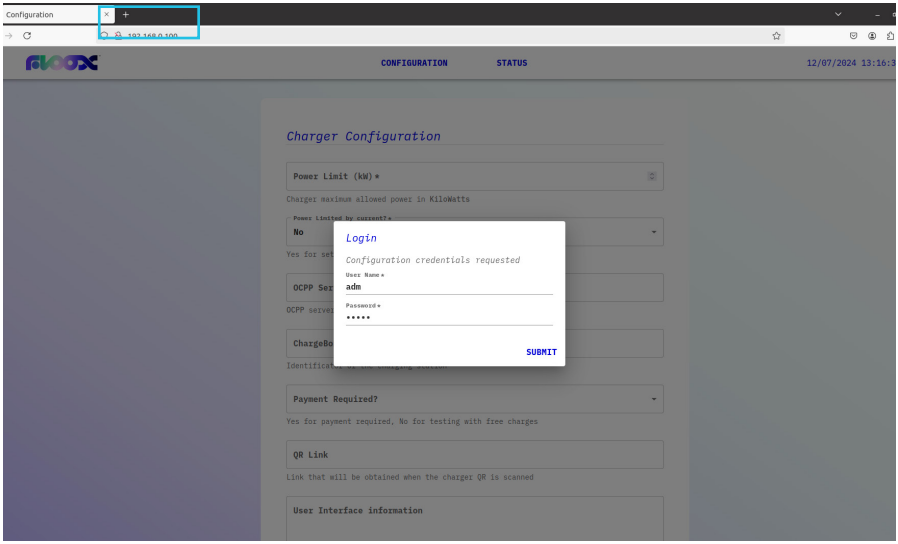
3.1 Configuration of the charger

The following section explains how to configure your charger.

Step 1
From your preferred browser, access the IP 192.168.0.100 and enter the following credentials:

User name: adm
Password: floox

Then click on "Submit".



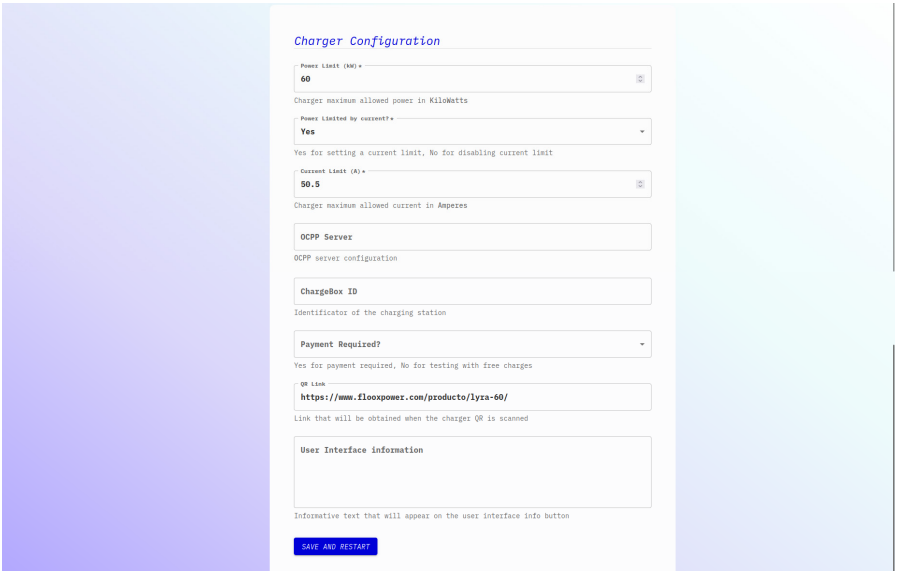
Step 2
Select "Configuration" in the configuration screen; fill in the form fields according to your preferences.

- In the "*ChargerBox ID*" field enter the identifier of your charger. This information should be provided by your organisation.
- In the "*OCPP Server*" field, enter the OCPP server to be used. This information should be provided by your organisation.
- In the "*Power Limit*" field, enter the maximum power you want your charger to provide.

- In the "*Paymet Required?*" field, choose the option that corresponds to your type of installation. The default should be set to "Yes" unless you want to test the charger in-situ.
- In the "*User Interface Information*" field, enter your organisation's information. This information will appear in the "Information" menu of the charger user.

Step 3

Click on "Save and restart" to save the changes.



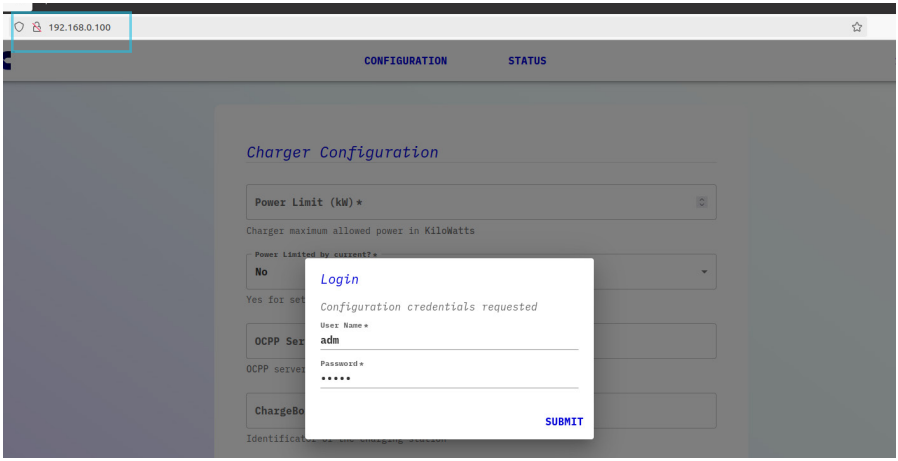
3.2 Charger status

The following section describes how to obtain the charger status logs.

Step 1
From your preferred browser, access the IP 192.168.0.100 and enter the following credentials:

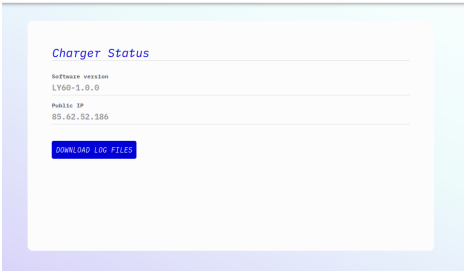
User name: adm
Password: floox

Then click on "Submit".



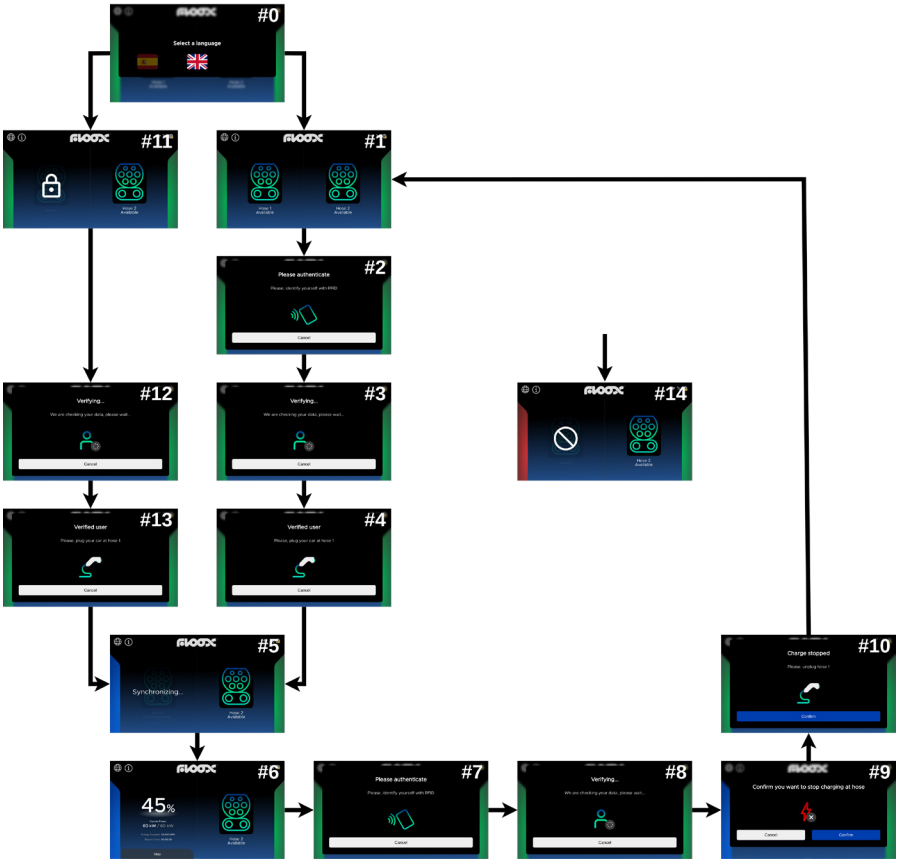
Step 2
Select "Status" in the configuration screen; this section shows the current version of the charger and the network connection status.

Go to "Download log files" to get the charger logs. These files contain status information from OCPP and the charger.



3.3 Charger operation

In the following chapter, the user-level operation of the charger is explained in detail. The figure shows the menu diagram for the normal operation of the charger and the flow of screens.



The charger will normally start in states #11 or #1 depending on whether the charge has been pre-reserved (via OCPP) or not; State #0 is an optional state, and allows you to select the language; if there is a problem with any of the hoses, a screen like #14 will be shown, regardless of the prevailing conditions.

For details of each menu, please read the following sections.

#0: Language selection
If you want to change languages, select the globe icon visible at the top left on any screen; a pop-up will show you the languages available for your charger. Choose the language you want to use.

#1: Charger on stand-by
When you start the charger (if you have not pre-booked a charge) you will be shown a screen with the currently available hoses. Each available hose is represented by the charging connector icon, with a green band on the side if it is available.

#2: Card authentication
You will be asked to identify yourself with your card. Place the card on the RFID reader, or Payment Terminal and follow the on-screen instructions.

#3: User verification
Your details will then be verified and a charging session will be enabled.

#4: Hose connection
Connect any of the available hoses to your vehicle. Make sure that the connector and hose are not damaged or dirty.

#5: Synchronisation
The charger will then lock the hose and communicate with your vehicle to set the charging parameters and do its pre-checks. This operation may take a few seconds to complete.

#6: Charge
The charger will start the vehicle charging process automatically. It will indicate the current battery level, the power injected and the elapsed time. The charging time will depend on your battery level and the maximum power allowed by your vehicle. You can stop charging at any time by clicking on "Pause".

#7: User-specified stop
If you have pressed the pause button you will be asked to identify yourself. Place the card on the RFID reader, or Payment Terminal and follow the on-screen instructions.

#8: User verification
Same as #3.

#9: Confirm charging halt
To finish charging, click on "Confirm". If you do not wish to do so, click on "Cancel".

#10: Hose disconnection.
You can now disconnect the hose from your vehicle.

#11: Charge pre-booking.
If you have pre-booked a charge, you will notice that the selected hose will be locked, and a padlock icon will be visible. Select the hose you have reserved.

#12: User verification
Same process as #3.

#13: Hose connection
Connect your vehicle to the hose you have reserved.

#14: Hose not available
The charger can disable one or both hoses depending on station conditions. In the event that either (or both) of them should be disabled, this will be indicated by an unavailability icon, and a red band on the side. Refer to the troubleshooting section or contact Floox Chargers in this case.

4. Status codes

*For the latest status codes, please visit our website.

Codification	Maintenance message (OCPP or Internal communication)	Generic Description
1200100000	Error: Hose 1: DC Relay: Soldered relay	Soldered relay
1200100001	Error: Hose 1: DC Relay: Relay does not close	Relay does not close
2200100000	Error: Hose 2: DC Relay: Soldered relay	Soldered relay
2200100001	Error: Hose 2: DC Relay: Relay does not close	Relay does not close
1200100002	Error: Hose 1: DC Relay: Unexpected disabled signal received	Unexpected disabled signal received
2200100002	Error: Hose 2: DC Relay: Unexpected disabled signal received	Unexpected disabled signal received
1200200000	Error: Hose 1: Temperature measurement: OverTemperature	OverTemperature
2200200000	Error: Hose 2: Temperature measurement: OverTemperature	OverTemperature
1200200001	Error: Hose 1: Temperature measurement: UnderTemperature	UnderTemperature
2200200001	Error: Hose 2: Temperature measurement: UnderTemperature	UnderTemperature
1200200002	Error: Hose 1: Temperature measurement: Temperature Mismatch	Temperature Mismatch
2200200002	Error: Hose 2: Temperature measurement: Temperature Mismatch	Temperature Mismatch
1200200003	Error: Hose 1: Temperature measurement: Temperature diagnostic error	Temperature diagnostic error
2200200003	Error: Hose 2: Temperature measurement: Temperature diagnostic error	Temperature diagnostic error
1200200004	Error: Hose 1: Temperature measurement: Hysteresis	Hysteresis
2200200004	Error: Hose 2: Temperature measurement: Hysteresis	Hysteresis
1200300000	Error: Hose 1: HV measurement: Measurement diagnostic error	Measurement diagnostic error
2200300000	Error: Hose 2: HV measurement: Measurement diagnostic error	Measurement diagnostic error
1200400000	Error: Hose 1: IMD: Positive insulation	Positive insulation
2200400000	Error: Hose 2: IMD: Positive insulation	Positive insulation
1200400001	Error: Hose 1: IMD: Negative insulation	Negative insulation
2200400001	Error: Hose 2: IMD: Negative insulation	Negative insulation
1200400002	Error: Hose 1: IMD: Positive diagnostic error	Positive diagnostic error

Codification	Maintenance message (OCPP or Internal communication)	Generic Description
2200400002	Error: Hose 2: IMD: Positive diagnostic error	Positive diagnostic error
1200400003	Error: Hose 1: IMD: Negative diagnostic error	Negative diagnostic error
2200400003	Error: Hose 2: IMD: Negative diagnostic error	Negative diagnostic error
1200400004	Error: Hose 1: IMD: Runcheck Timeout	Runcheck Timeout
2200400004	Error: Hose 2: IMD: Runcheck Timeout	Runcheck Timeout
1200500000	Error: Hose 1: Hose: Invalid state	Invalid state
2200500000	Error: Hose 2: Hose: Invalid state	Invalid state
1200500001	Error: Hose 1: Hose: Wrong transition	Wrong transition
2200500001	Error: Hose 2: Hose: Wrong transition	Wrong transition
1200500002	Error: Hose 1: Hose: State Timeout	State Timeout
2200500002	Error: Hose 2: Hose: State Timeout	State Timeout
1200500003	Error: Hose 1: Hose: Cable check error	Cable check error
2200500003	Error: Hose 2: Hose: Cable check error	Cable check error
200600000	Error: Charger: Supervisor: Heartbeat error	Heartbeat error
200600001	Error: Charger: Supervisor: Communications error	Communications error
200600002	Error: Charger: Supervisor: Supply undervoltage	Supply undervoltage
200600003	Error: Charger: Supervisor: Clock drift	Clock drift
200600004	Error: Charger: Supervisor: Scheduler failure	Scheduler failure
200600005	Error: Charger: Supervisor: Main loop	Main loop
200600006	Error: Charger: Supervisor: Other safety failure	Other safety failure
200600007	Error: Charger: Supervisor: GPIO Feedback	GPIO Feedback
200600008	Error: Charger: Supervisor: ADC Reference	ADC Reference
200600009	Error: Charger: Supervisor: CP Voltage Measurement	CP Voltage Measurement
200600010	Error: Charger: Supervisor: Stack Guard	Stack Guard
1200700000	Error: Hose 1: Power rail: Power device input fuse error	Power device input fuse error
2200700000	Error: Hose 2: Power rail: Power device input fuse error	Power device input fuse error
1200700001	Error: Hose 1: Power rail: Power device overtemperature	Power device overtemperature
2200700001	Error: Hose 2: Power rail: Power device overtemperature	Power device overtemperature
1200700002	Error: Hose 1: Power rail: Power device AC input failure	Power device AC input failure

Codification	Maintenance message (OCPP or Internal communication)	Generic Description
2200700002	Error: Hose 2: Power rail: Power device AC input failure	Power device AC input failure
1200700003	Error: Hose 1: Power rail: PFC voltage error	PFC voltage error
2200700003	Error: Hose 2: Power rail: PFC voltage error	PFC voltage error
1200700004	Error: Hose 1: Power rail: Overvoltage shutdown	Overvoltage shutdown
2200700004	Error: Hose 2: Power rail: Overvoltage shutdown	Overvoltage shutdown
1200700005	Error: Hose 1: Power rail: Undervoltage	Undervoltage
2200700005	Error: Hose 2: Power rail: Undervoltage	Undervoltage
1200700006	Error: Hose 1: Power rail: Power rail undertemperature	Power rail undertemperature
2200700006	Error: Hose 2: Power rail: Power rail undertemperature	Power rail undertemperature
1200700007	Error: Hose 1: Power rail: Internal error	Internal error
2200700007	Error: Hose 2: Power rail: Internal error	Internal error
1200700008	Error: Hose 1: Power rail: Unbalanced output voltage	Unbalanced output voltage
2200700008	Error: Hose 2: Power rail: Unbalanced output voltage	Unbalanced output voltage
1200700009	Error: Hose 1: Power rail: Generic Failure	Generic Failure
2200700009	Error: Hose 2: Power rail: Generic Failure	Generic Failure
1200700010	Error: Hose 1: Power rail: HILO mode not applied	HILO mode not applied
1200700011	Error: Hose 1: Power rail: Output voltage below limit	Output voltage below limit
1200700012	Error: Hose 1: Power rail: Not turned on	Not turned on
1200700013	Error: Hose 1: Power rail: DCDC EPROM Failure	DCDC EPROM Failure
1200700014	Error: Hose 1: Power rail: Bleeder Failure	Bleeder Failure
1200800000	Error: Hose 1: Power rail HW: Output overcurrent	Output overcurrent
1200800001	Error: Hose 1: Power rail HW: AC imabalance	AC imabalance
1200800002	Error: Hose 1: Power rail HW: AC open phase	AC open phase
1200800003	Error: Hose 1: Power rail HW: Cabling Error	Cabling Error
1200800004	Error: Hose 1: Power rail HW: Output Capacitor Voltage Imbalance	Output Capacitor Voltage Imbalance
1200800005	Error: Hose 1: Power rail HW: HWAddress Conflict	HWAddress Conflict
1200800006	Error: Hose 1: Power rail HW: HWAddress Error	HWAddress Error

Codification	Maintenance message (OCPP or Internal communication)	Generic Description
1200800007	Error: Hose 1: Power rail HW: Discharge Circuit Abnormal	Discharge Circuit Abnormal
1200800008	Error: Hose 1: Power rail HW: Low Capacitor Service Life	Low Capacitor Service Life
1200800009	Error: Hose 1: Power rail HW: Clock Sync Erro	Clock Sync Erro
1200800010	Error: Hose 1: Power rail HW: Short Circuit Lockout	Short Circuit Lockout
1200800011	Error: Hose 1: Power rail HW: Discharge Circuit Error	Discharge Circuit Error
1200800012	Error: Hose 1: Power rail HW: Discharge Circuit Break	Discharge Circuit Break
1200800013	Error: Hose 1: Power rail HW: Discharge Circuit Short	Discharge Circuit Short
1200800014	Error: Hose 1: Power rail HW: Circuit Error Lockout	Circuit Error Lockout
2200700010	Error: Hose 2: Power rail: HILO mode not applied	HILO mode not applied
2200700011	Error: Hose 2: Power rail: Output voltage below limit	Output voltage below limit
2200700012	Error: Hose 2: Power rail: Not turned on	Not turned on
2200700013	Error: Hose 2: Power rail: DCDC EPROM Failure	DCDC EPROM Failure
2200700014	Error: Hose 2: Power rail: Bleeder Failure	Bleeder Failure
2200800000	Error: Hose 2: Power rail HW: Output overcurrent	Output overcurrent
2200800001	Error: Hose 2: Power rail HW: AC imabalance	AC imabalance
2200800002	Error: Hose 2: Power rail HW: AC open phase	AC open phase
2200800003	Error: Hose 2: Power rail HW: Cabling Error	Cabling Error
2200800004	Error: Hose 2: Power rail HW: Output Capacitor Voltage Imbalance	Output Capacitor Voltage Imbalance
2200800005	Error: Hose 2: Power rail HW: HWAddress Conflict	HWAddress Conflict
2200800006	Error: Hose 2: Power rail HW: HWAddress Error	HWAddress Error
2200800007	Error: Hose 2: Power rail HW: Discharge Circuit Abnormal	Discharge Circuit Abnormal
2200800008	Error: Hose 2: Power rail HW: Low Capacitor Service Life	Low Capacitor Service Life
2200800009	Error: Hose 2: Power rail HW: Clock Sync Erro	Clock Sync Erro
2200800010	Error: Hose 2: Power rail HW: Short Circuit Lockout	Short Circuit Lockout
2200800011	Error: Hose 2: Power rail HW: Discharge Circuit Error	Discharge Circuit Error
2200800012	Error: Hose 2: Power rail HW: Discharge Circuit Break	Discharge Circuit Break

Codification	Maintenance message (OCPP or Internal communication)	Generic Description
2200800013	Error: Hose 2: Power rail HW: Discharge Circuit Short	Discharge Circuit Short
2200800014	Error: Hose 2: Power rail HW: Circuit Error Lockout	Circuit Error Lockout
1200900000	Error: Hose 1: Power rail communication manager: Communications error	Communications error
2200900000	Error: Hose 2: Power rail communication manager: Communications error	Communications error
1200900001	Error: Hose 1: Power rail communication manager: Identification error	Identification error
2200900001	Error: Hose 2: Power rail communication manager: Identification error	Identification error
1201000000	Error: Hose 1: AC relay: Soldered relay	Soldered relay
1201000001	Error: Hose 1: AC relay: Relay does not close	Relay does not close
2201000000	Error: Hose 2: AC relay: Soldered relay	Soldered relay
2201000001	Error: Hose 2: AC relay: Relay does not close	Relay does not close
201100000	Error: Charger: PDM: PDM invalid state	PDM invalid state
201100001	Error: Charger: PDM: PDM wrong transition	PDM wrong transition
201100002	Error: Charger: PDM: PDM state timeout	PDM state timeout
201200000	Error: Charger: Bridge relay: Relay Soldered	Relay Soldered
201200001	Error: Charger: Bridge relay: Relay does not close	Relay does not close
201300000	Error: Charger: Ventilation: Initialization error	Initialization error
201400000	Error: Charger: Internal temperature measurement: Ambient overtemperature	Ambient overtemperature
201400001	Error: Charger: Internal temperature measurement: Ambient undertemperature	Ambient undertemperature
201400002	Error: Charger: Internal temperature measurement: Ambient temperature diagnostics	Ambient temperature diagnostics
201500000	Error: Charger: System configuration: Invalid system configuration	Invalid system configuration
201500001	Error: Charger: System configuration: No configuration	No configuration
201600000	Error: Charger: Charger controller: Generic initialization error	Generic initialization error
201600001	Error: Charger: Charger controller: Invalid State	Invalid State
201600002	Error: Charger: Charger controller: Wrong transition	Wrong transition
201600003	Error: Charger: Charger controller: State Timeout	State Timeout

Codification	Maintenance message (OCPP or Internal communication)	Generic Description
1201600000	Error: Hose 1: Charger controller: EV Emergency Stop	EV Emergency Stop
2201600000	Error: Hose 2: Charger controller: EV Emergency Stop	EV Emergency Stop
1201600001	Error: Hose 1: Charger controller: Invalid connection sequence	Invalid connection sequence
2201600001	Error: Hose 2: Charger controller: Invalid connection sequence	Invalid connection sequence
201700000	Error: Charger: Supply generation: Initialization error	Initialization error
1201800000	Error: Hose 1: CCS communications: CP Invalid	CP Invalid
2201800000	Error: Hose 2: CCS communications: CP Invalid	CP Invalid
1201800001	Error: Hose 1: CCS communications: HLC Communications Error	HLC Communications Error
2201800001	Error: Hose 2: CCS communications: HLC Communications Error	HLC Communications Error
1201800002	Error: Hose 1: CCS communications: SLAC data link error	SLAC data link error
2201800002	Error: Hose 2: CCS communications: SLAC data link error	SLAC data link error
201900000	Error: Charger: Emergency button: Initialization error	Initialization error
201900001	Error: Charger: Emergency button: Emergency button/door switch	Emergency button/door switch

NOTES

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