

# Mennekes Professional - Commissioning

This brief installation instruction provides a quick overview of all the necessary steps. Additional information, safety instructions, references, and sources can be found in our [HelpCenter](#). The Installation instructions are only valid for the integration of the energy management system and the configuration of relevant assets. Make sure to carefully read the **safety instructions** and adhere to the **infrastructural requirements for a gridBox gateway installation**.

Required:

- Latest Firmware version
- user name and password (see setup data sheet)



## Connection

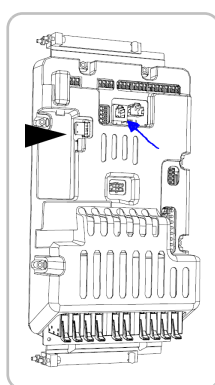
### Backend management connection

This can be done via the GSM module installed in the master charging station as well as via the regular network connection.

### Load management connection

Connect the charging station to the gridBox via Ethernet using the RJ45 connection, as shown in the following figures.

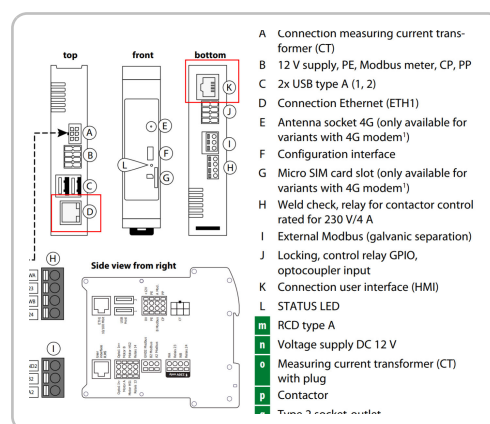
Model AMEDIO <sup>a</sup>.



Model AMTRON <sup>b</sup>.



Bender controller connections <sup>c</sup>.



<sup>a</sup>AMEM1408\_12422\_xx12412\_xx32422\_xx32412\_Betriebsanleitung\_Zusatz.pdf, p. 2

<sup>b</sup>AMEM1408\_12422\_xx12412\_xx32422\_xx32412\_Betriebsanleitung\_Zusatz.pdf, p.5

<sup>c</sup>FCC613\_D00381\_D\_XXEN.pdf, p.4

**NOTE**

The connections may differ depending on the installed Bender controller type.

## Configuration

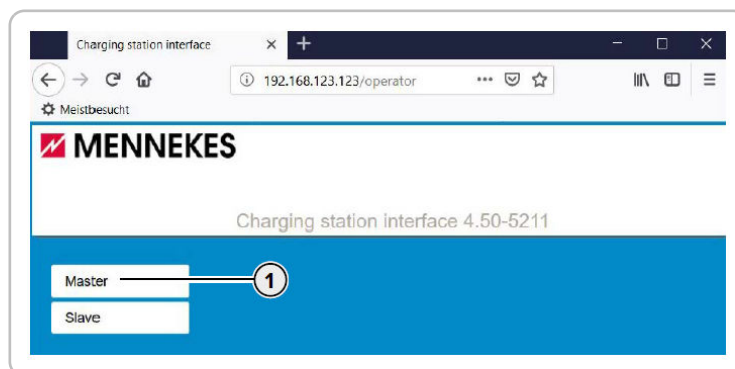
### Network

If not already done, the IP address of the charging point must be set up.

### Without DHCP

If DHCP is not yet activated for setting up the network on the charging station, follow the procedure:

1. Connect the end device (e.g. PC, laptop) and ECU with an Ethernet cable. Use the Ethernet port on the Ethernet surge protector for this purpose.
2. Configure the network settings of the end device:
  - IPv4-address: 192.168.124.21
  - Subnet mask: 255.255.255.0
  - Default gateway: 192.168.124.1
3. Open the Internet browser and log into the webinterface via <http://192.168.124.123/operator>
4. If you configure an AMEDIO station with two charge points, firstly, select if you want to configure master or slave. We recommend always configuring the master, because all settings are automatically applied to the slave.



5. Enter the user name and password for the charging station, which are available on the setup data sheet. Example:

Commissioning Data Sheet Einrichtungsdatenblatt		MENNEKES MY POWER CONNECTION	
<b>Serial Number:</b> <b>140802412.00015</b>			
<b>Credentials</b>			
User Name Master: operator			
Password Master: <b>6eBb1vDc</b>			
Password Slave: TqJkkLZe			
<b>Device Data</b>			
Application Version Master:	4.52-5412-d6a2288f6	Application Version Slave:	4.52-5412-d6a2288f6
Controller Serial Number Master:	1903523062/B94060045	Controller Serial Number Slave:	1903527652/B94060046
Meter Serial Number Master:	093609	Meter Serial Number Slave:	093633



## NOTE

For a charging station with two connections (e.g. AMEDIO) the device is only accessible via one IP address.

Nevertheless, both charging points can be addressed separately as follows:

- Master charging point: `http://<IP>:81/operator`
- Slave charging point: `http://<IP>:82/operator`

## With DHCP

If DHCP is active on the network router and DHCP is also set up for address configuration on the charging station, a suitable IP address is automatically assigned by the DHCP server.

We recommend this method. Note that a so-called 'static lease' is entered in the DHCP server so that the device always receives the same address according to the gridX specifications.

## DHCP activation

1. Open the web interface as described above under [Section : "Without DHCP"](#).
2. Navigate to the menu item "Network/LAN" and set "Mode for network configuration" or "Mode for Ethernet configuration" as follows:

NETWORK	
<b>GSM</b>	
Show Modem Configuration	Hide
<b>LAN</b>	
Show LAN Configuration	Show
Mode for ethernet configuration	Auto (DHCP client)
DHCP client request retries	10
DHCP client request timeout	10
DHCP client request delay	10
DHCP client hostname	

## Setting up a connection to an OCPP backend

1. Within the web interface of the charging station, navigate to the "Backend" menu and configure the following settings:

**BACKEND**

**Connection**

Connection Type ⓘ Ethernet ▾

**OCPP**

OCPP ChargeBoxIdentity (ChargePointID) ⓘ 1367202.00010

OCPP Mode ⓘ OCPP-J 1.6 ▾

WebSockets JSON OCPP URL of the Backend ⓘ ws://192.168.22.183

WebSockets proxy ⓘ

WebSockets keep-alive interval ⓘ 0

HTTP Basic Authentication password ⓘ

Send informative StatusNotifications ⓘ Off ▾

Send error StatusNotifications ⓘ On ▾

Strategy for StatusNotification state transitions ⓘ Occupied on Charging ▾

Allow long get configuration keys ⓘ Off ▾

Disallow charging if OCPP queue full ⓘ Off ▾

2. If necessary, adjust other parameters under the "Other" or "Meter" sections.
3. Then click the "Save & Restart" button.

## Setup of the local load management by gridX

Navigate to the menu item "Operator" in the web interface and set the following:

**Modbus**

Modbus TCP Server ⓘ On ▾

Modbus TCP Server Base Port ⓘ 502

Modbus TCP Server Register Address Set ⓘ MENNEKES ▾

Modbus TCP Server Allow Start/Stop Transaction ⓘ On ▾

Modbus TCP Server Allow UID Disclose ⓘ Off ▾

**Dynamic Load Management**

Dynamic Load Management - DLM Master/Slave ⓘ Disabled ▾



### NOTE

These parameters must be configured individually for each charging point.

## Maximum charging current

This is set in the gridX XENON Dashboard, but can additionally be limited directly at the charging point:

### INSTALLATION

General Installation

Installation Current Limit [A] ⓘ 32

## Fallback current

In the "Load Management" menu item under the "Local" section, set the maximum charging current if the connection to the load management system is interrupted:

### LOAD MANAGEMENT

Local

Operator Current Limit [A] ⓘ 32

Energy management from external input ⓘ Disable ▾

Disconnected Limit for SmartCharging ⓘ On ▾

Disconnected Upper Limit [A] for SmartCharging ⓘ 16