Webasto Next
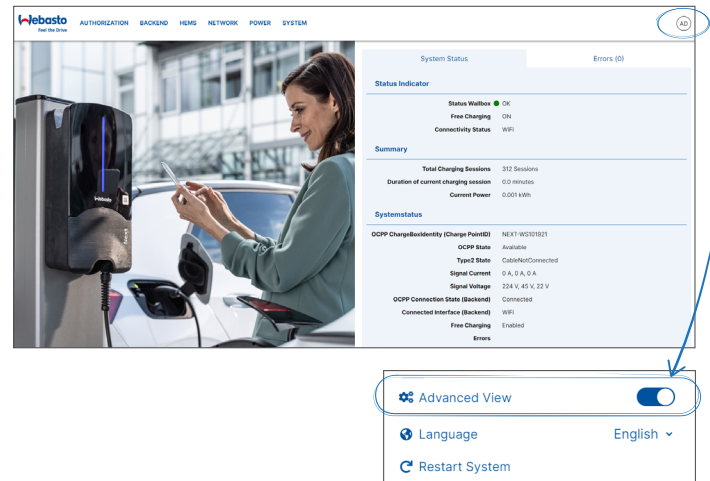## How to connect to a Smart Meter

General

Note

- For Smart Meter settings, please refer to the user manual for the respective Smart Meter.
- Your electrician must have a sound understanding of network topology.
- All Smart Meters validated by Webasto have DHCP enabled when supplied.
- All settings must be applied without your electric vehicle (EV) being connected.
- You must first decide which of the below use cases you want to implement.
- For DHCP use cases, your electrician must have access to your home network's router (FRITZ!Box).
- Instructions for disabling DHCP are included in the user manual of the respective Smart Meter.
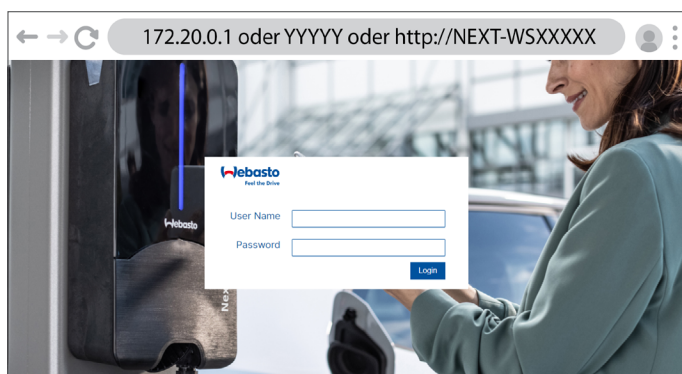
WebUI general settings

Enabling expert mode in the WebUI

WebUI log in

The WebUI is a graphical user interface which a user can use to interact with the system via a web browser. The WebUI can be accessed in the browser in the following ways:

- With a WLAN connection to the hotspot in the wall box, the WebUI can be accessed in the browser at the following IP address: 172.20.0.1
- With a WLAN or LAN connection to the router, the WebUI can be accessed in the browser at the following IP addresses: – YYYYY (YYYYY --> IP address that has been assigned to the wall box by the router) – https://NEXTWSXXXXXX (WSXXXXXX - Serial No.: see type plate)
- Login data:
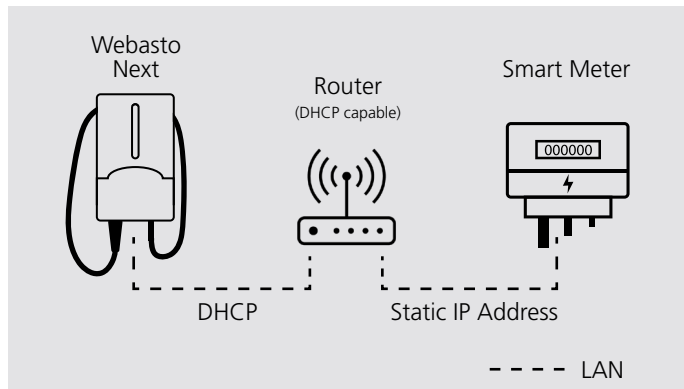 - User name: admin
  - Password: master password

Use Cases

The different implementation options below are explained on the following pages:

- Connection via a router with a static IP address (use case 1)
- Connection via a router with DHCP (use case 2)
- Direct connection with a static IP address (use case 3)

Connection through a router with a static IP address

Webasto Next - Router - Smart Meter

Connection through a router with DHCP

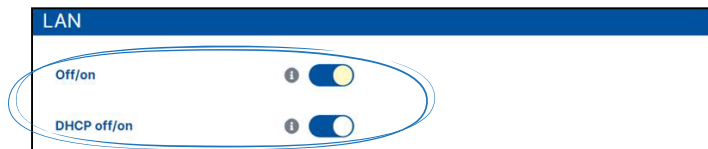Webasto Next - Router - Smart Meter

Use Case 1 Description
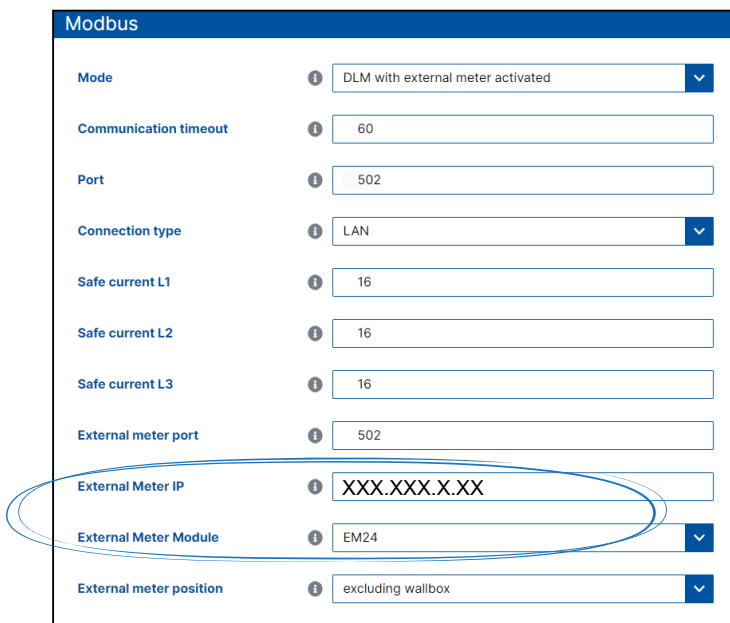(This Use Case is recommended by Webasto)

- Disable the Smart Meter's DHCP.
- Set an IP address on the router that is on the same network as the charging station.
- Transfer the IP address set on the router (for the Smart Meter) to the Smart Meter.
- Transfer the IP address set on the Smart Meter to the charging station's WebUI.

Use Case 2 Description

- Transfer the IP address set on your home network's router (for the Smart Meter) to the charging station's WebUI.

> **Note**
> The router may assign a new IP address after a restart. As a result, the connection between the charging station and the Smart Meter can no longer be established.

WebUI Settings

- Select the **NETWORK** tab to see if the charging station's network connection is via LAN, and if DHCP is active.

LAN

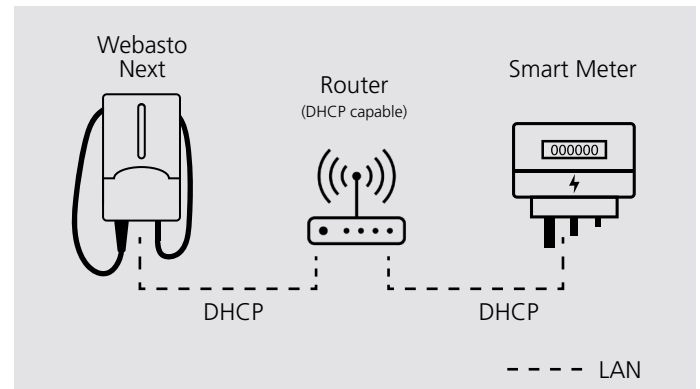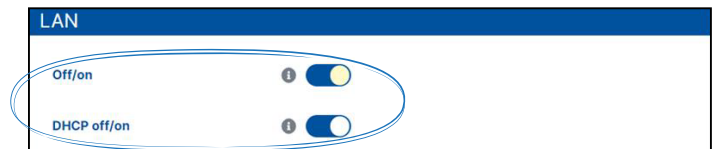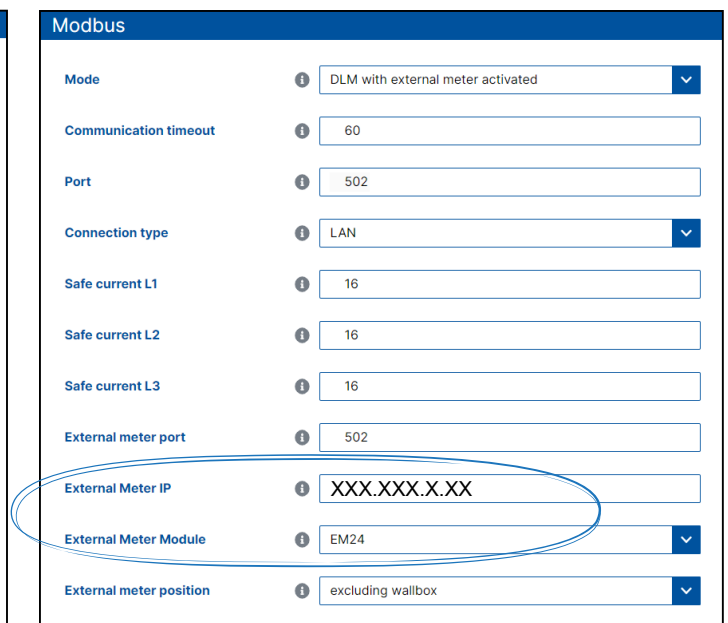| Off/on	🛈 ⬤
DHCP off/on	🛈 ⬤

- Select the **HEMS** tab. Under **External Meter IP** enter the IP address, and under **External Meter Module** select the respective Smart Meter from the dropdown list.

Modbus

Mode	🛈	DLM with external meter activated ⌄
Communication timeout	🛈	60
Port	🛈	502
Connection type	🛈	LAN ⌄
Safe current L1	🛈	16
Safe current L2	🛈	16
Safe current L3	🛈	16
External meter port	🛈	502
External Meter IP	🛈	XXX.XXX.X.XX
External Meter Module	🛈	EM24 ⌄
External meter position	🛈	excluding wallbox ⌄

WebUI Settings

- Select the **NETWORK** tab to see if the charging station's network connection is via LAN, and if DHCP is active.

LAN

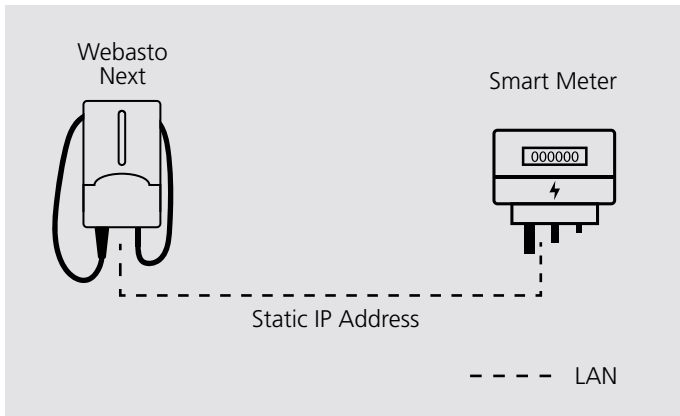| Off/on	🛈 ⬤
DHCP off/on	🛈 ⬤

- Select the **HEMS** tab. Under **External Meter IP** enter the IP address, and under **External Meter Module** select the respective Smart Meter from the dropdown list.

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Safe current L3	🛈	16
External meter port	🛈	502
External Meter IP	🛈	XXX.XXX.X.XX
External Meter Module	🛈	EM24 ⌄
External meter position	🛈	excluding wallbox ⌄

Direct Connection with Static IP Address

Webasto Next - Smart Meter

Use Case 3 Description

- Disable the Smart Meter's DHCP.
- Disable the charging station's DHCP.
- Set an IP address on the Smart Meter that is on the same network as the charging station.
- Set an IP address on the charging station that is on the same network as the Smart Meter.
- Enter the Smart Meter's IP address in the charging station's WebUI.

WebUI Settings

- Select the **NETWORK** tab and deactivate DHCP. Under IP address (static) enter the IPv4 address. The standard suffix for the subnet mask is **/24** (= 255.255.255.0)

- Select the **HEMS** tab. Under **External Meter IP** enter the IP address, and under **External Meter Module** select the respective Smart Meter from the dropdown list.

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