NEXXTLOOK installation tutorial

The NEXXTLOOK kit consists of three elements: a NEXXTLOOK box, a USB cable and a USB plug power supply.

The NEXXTLOOK box establishes a gateway between the Nexxtender Home charging point and the local WiFi network. This gateway is also equipped with a user interface that enables the user to configure the charging point, manage charges and monitor charge consumption.

> **Requirements for using NEXXTLOOK**
> - **A socket must be available to supply continuous power to the NEXXTLOOK. This socket must be within a few metres of the Nexxtender Home.**
> - **Make sure you have a good WiFi signal where the NEXXTLOOK will be fixed. If in doubt, test it with a smartphone. If the signal is too weak, install a WiFi repeater to increase the signal strength.**
> - **A recent update to Safari on MAC or iOS prevents you from interacting with NEXXTLOOK. If you are using iOS, you will need to use another browser (Chrome, Firefox, etc.) to configure and use NEXXTLOOK.**

1. **Scanning the WiFi network: assigning an IP address to the NEXXTLOOK**

   The first step is to find out which IP addresses are available on your WiFi network: use your smartphone (Android or iOS) or your computer. **Android version**

LOOKWATT

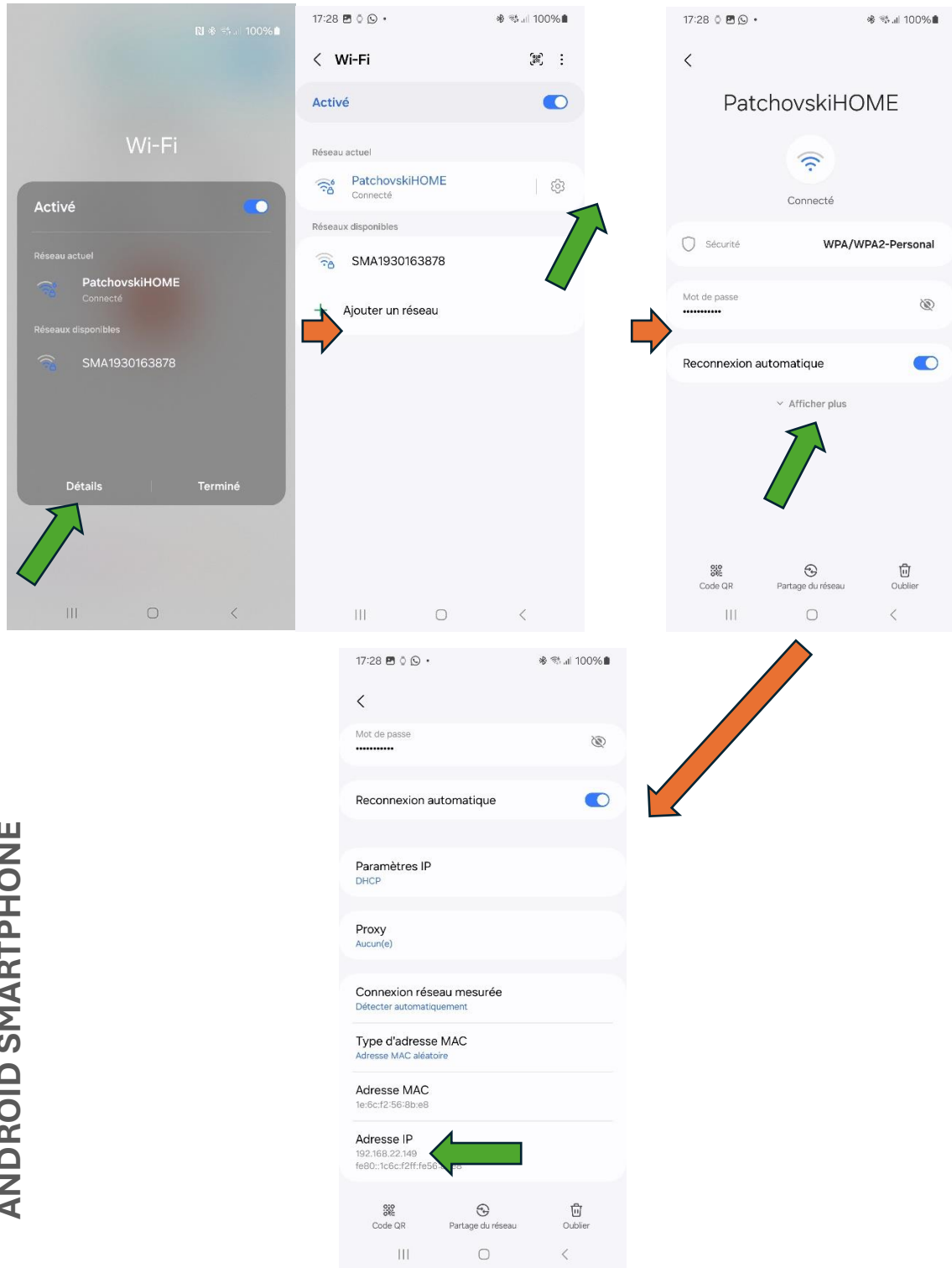*Figure 1 Sequence of operations to discover the IP address of the smartphone in the network (Android)*

ANDROID SMARTPHONE

Hold your finger on the WiFi tab for a moment, and the tab with all the WiFi devices will open. Then click on **Details** and then on Settings ⚙ . On the settings page, click **Show more** and the smartphone's address will appear in the **IP address** section. In the example shown in the images, the phone's address is 192.168.22.149, which means that the router's address (= gateway) is 192.168.22.1: replace the last three digits with 1.

NETWORK SETTINGS

Note the network parameters here, which will be needed for configuration:

Router IP address (= gateway): ....

SSID (= network name): ....

Network password: ....

2. **Plug the power supply into a socket and connect the NEXXTLOOK module to its power supply** using the USB cable supplied, close to the NEXXTENDER Home terminal and within range of the home WiFi network.

   NOTE: for a reliable radio link between the two (Bluetooth communication), the distance should not exceed a few metres. Avoid any major obstacles such as concrete or brick walls.

   IMPORTANT: In the event of outdoor installation, the NEXXTLOOK box and power supply do not have sufficient protection: in this case, install a perfectly watertight installation in a non-metallic box.

3. **Use the self-adhesive Velcro strip** supplied to stick the NEXXTLOOK to the wall.

4. **NEXXTLOOK goes into "WiFi access point" mode** if no configuration has been saved. Using a computer or smartphone, search for the **Nexxtlook-AP** WiFi network and connect to it. No password is required. Switch off mobile data.
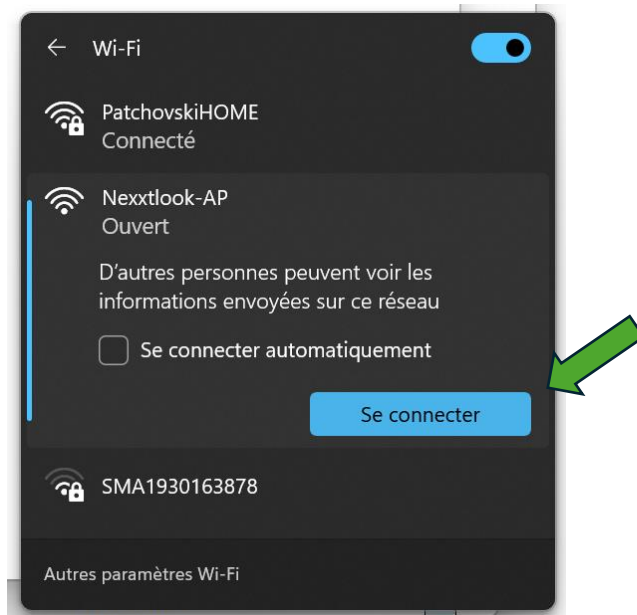
NOTE: "network not secure" and/or "no Internet access" alerts may appear. These can be safely ignored.
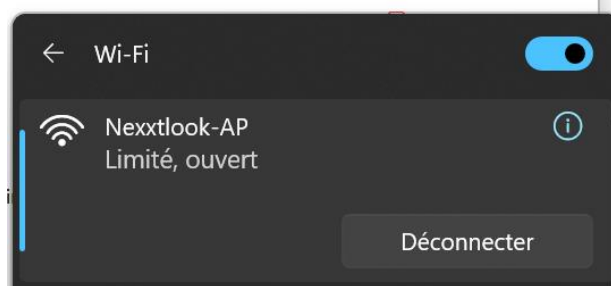
5. Open a web browser (Edge, Chrome, Firefox, etc.) and enter the address **192.168.4.1** in the address bar: the configuration page will open.
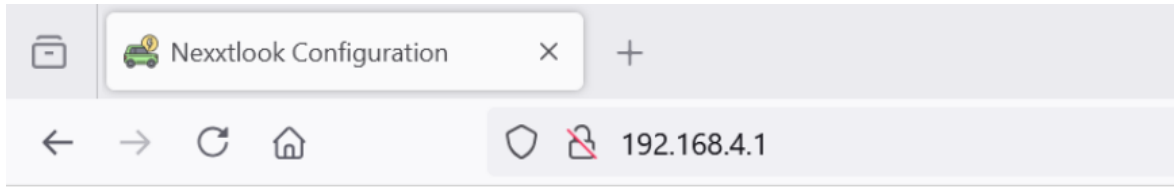
Nexxtlook Configuration

Serial PN `60211` - `A?` **1**

SN ` ` - ` ` - ` ` **2**

Defined Hostname `nexxtlook` **3a**

Default Hostname `ESP32-BBF43C` **3b**

WiFi SSID ` ` **4**

WiFi password ` ` **5**

6 _____

Optional parameters
leave blank or disabled if not used

Username ` `

Password ` `

☐ Set fixed network address

IP address `192.168.0.XXX`

Gateway address `192.168.0.XXX`

Subnet mask `255.255.255.0`

7

8 ⊘

Figure 2 NEXXTLOOK configuration page

1-2: **Fill in the bollard's PN and SN numbers.** These numbers can be found on the underside of your terminal on a label such as :

Figure 3 Example of a terminal label to recover the PN and SN

IMPORTANT: the PN and SN numbers must be copied without error.

3a: **Desired name of the NEXXTLOOK on the WiFi network**. The default name is "nexxtlook". *NOTE: If several NEXXTENDER HOME terminals are configured on the same Wi-Fi network, a different network name must be assigned to each NEXXTLOOK module present on the network.*

3b: **Factory name of the NEXXTLOOK on the WiFi network**.

4: **Name of the Wi-Fi network to which NEXXTLOOK can connect**. Make sure the name is correct (case and space sensitive).

5: **Password for your Wi-Fi network**. Make sure the password is correct (case and space sensitive).
NOTE: Exchanges with the module are not encrypted. It is therefore important to use it on a secure network.

7: **Fixed IP address required**. We advise you to tick this box so that NEXXTLOOK has a fixed IP address.
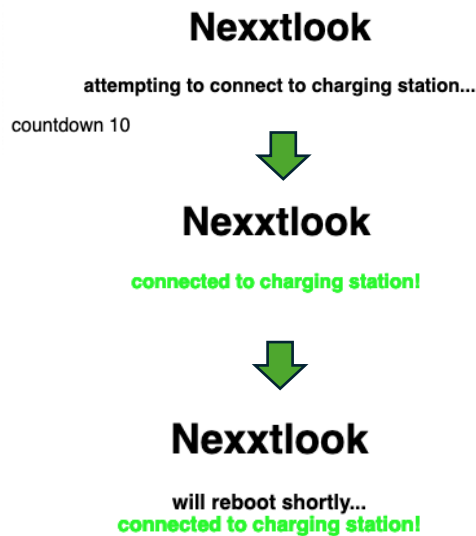
IP address : enter the IP address assigned to NEXXTLOOK. Based on the smartphone's identified IP address (e.g. **192.168.XXX.YYY**, see network settings), you can define the NEXXTLOOK address as e.g. **192.168.XXX.100**.

IMPORTANT: addresses 192.168.XXX.1 and 192.168.XXX.255 are prohibited

Gateway address: enter the IP address of the router on your network: **192.168.XXX.1**, where XXX has been identified when identifying the network parameters.

Subnet mask: leave **255.255.255.000.**

8: Once you have entered the basic parameters (1 to 7), press ⊘ to confirm. The application saves the settings and attempts to connect to the terminal. The configuration page will automatically go through several stages:

Nexxtlook

attempting to connect to charging station...

countdown 10

⬇

Nexxtlook

connected to charging station!

⬇

Nexxtlook

will reboot shortly...
connected to charging station!

At the end of the sequence, the module restarts to enter normal operating mode. If the terminal is not found (error in the terminal PN/SN codes), an error message is displayed and the configuration operation must be repeated.

IMPORTANT: once the terminal with the PN/SN codes entered has been found, the pairing of the NEXXTLOOK with the terminal in question is definitive. It will no longer be possible to use it for another terminal.

Optional parameters on the configuration page (Figure 1)

6: Username and password to access the NEXXTLOOK user page. A pop-up window will appear when accessing the NEXXTLOOK page if these fields are not empty.

Changing parameters

To change the terminal's configuration (WiFi modification, etc.), the module must be put back into "access point" mode:

1. Disconnect and reconnect the module from its power supply to restart it.
2. Within the next 20 seconds, press the button accessible through the hole in the cover for a few seconds (using a toothpick or pencil point).
3. After a few seconds, the "Nexxtlook-AP" WiFi network will be accessible again and the previously saved settings will appear on the **192.168.4.1** screen.
4. The connection parameters can be modified in the same way as during initial configuration.

NOTE: the connectivity of the NEXXTLOOK device has been successfully tested on several network routers (VOO, Proximus, Telenet, Cisco, etc.). Problems have been observed on certain firewall routers (Skyforce) which seem to prevent the NEXXTLOOK from accessing the local network. Contact your IT network manager in the event of connectivity difficulties.

Using NEXXTLOOK

To use NEXXTLOOK from now on, reconnect your smartphone or computer to the **usual local WiFi network**.

Open your web browser (Chrome, Edge, ~~Safari~~, Firefox, etc.) and enter the IP address of the NEXXTLOOK defined during configuration: http://192.168.XXX.YYY (YYY = 100 in our example)

The NEXXTLOOK home page opens:

Main page - OPEN mode

General history and measurements page

Terminal configuration page

Information page

Station time: Station date and time

Charging status: Displays the state of charge

Car Power Mode: Displays the mode the vehicle is in

Charging Seconds: Current charging time

Charging Energy: Energy of the current charge

Cumulated Energy: Total charging energy, i.e. the sum of all consumption since the NEXXTLOOK was connected to the charging point.

Stop button: stops charging

Eco button: Starts charging in ECO mode

Max button: Starts charging in MAX mode

Terminal configuration page

User definition page
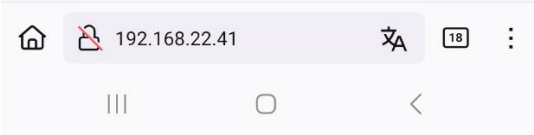
Charge Mode: Eco Private, Max Private, Eco Open or Max Open.

Week(end) diagram: definition of ECO mode night time slots

Maximum car charging speed: maximum current possible for charging the car. In general, this is 32A. Consult your installer.

Maximum available capacity: maximum current available when connected to the grid. This amperage can be seen on the circuit breaker protecting your electricity meter.

Connection type: "Mono/Tri+N" for single-phase or three-phase 3x400V+N connections or "Tri" for three-phase 3x230V connections.

Once configured, confirm by pressing
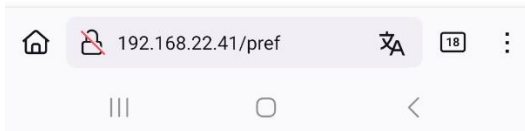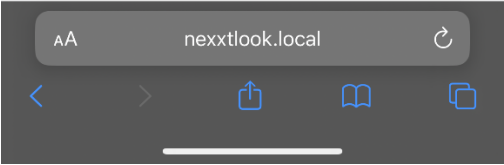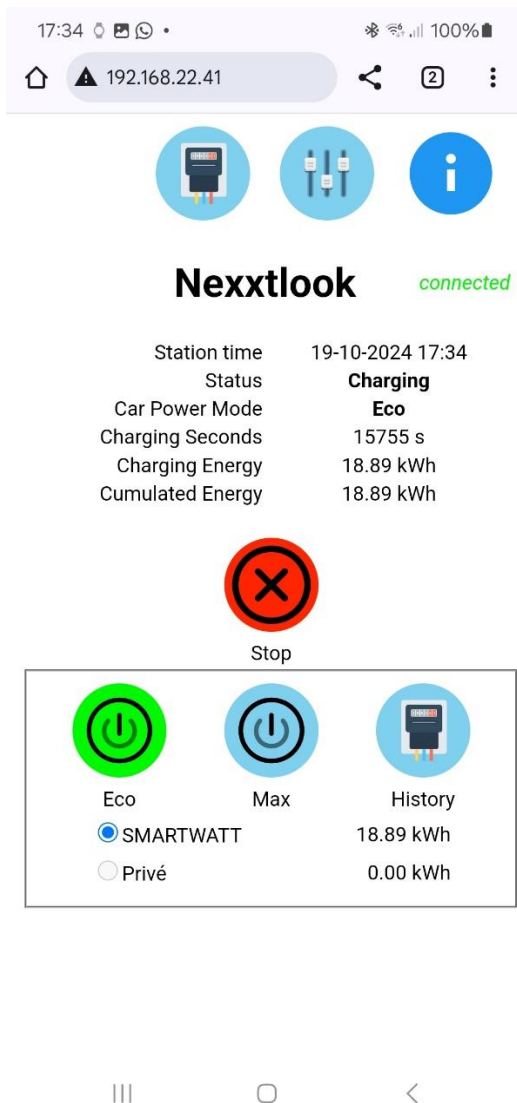
User definition page

14:49

User names

marc
Toto

Define the users and confirm with ✓

nexxtlook.local

Main page - PRIVATE mode

Station time: Station date and time

Charging status: Displays the state of charge

Car Power Mode: Displays the mode the vehicle is in

Charging Seconds: Current charging time

Charging Energy: Energy of the current charge

Cumulated Energy: Total charging energy, i.e. the sum of all charges since the NEXXTLOOK was connected to the terminal.

Stop button: stops charging

Click on user: Before starting a charge, click on the chosen user and then start a charge in ECO or MAX. Each user has their own total charge energy counter.

Eco button: Starts charging in ECO mode

Max button: Starts charging in MAX mode

History: monthly consumption history for the selected user

Creating a shortcut on a smartphone

To simplify the day-to-day use of NEXXTLOOK, we recommend creating a shortcut on your smartphone's home screen for easy access to the NEXXTLOOK page.

In this example (done with Firefox and Chrome) :

1. Click on ⋮ in the corner

2. Click on **Add to home screen**. Confirm by clicking on **Add.**
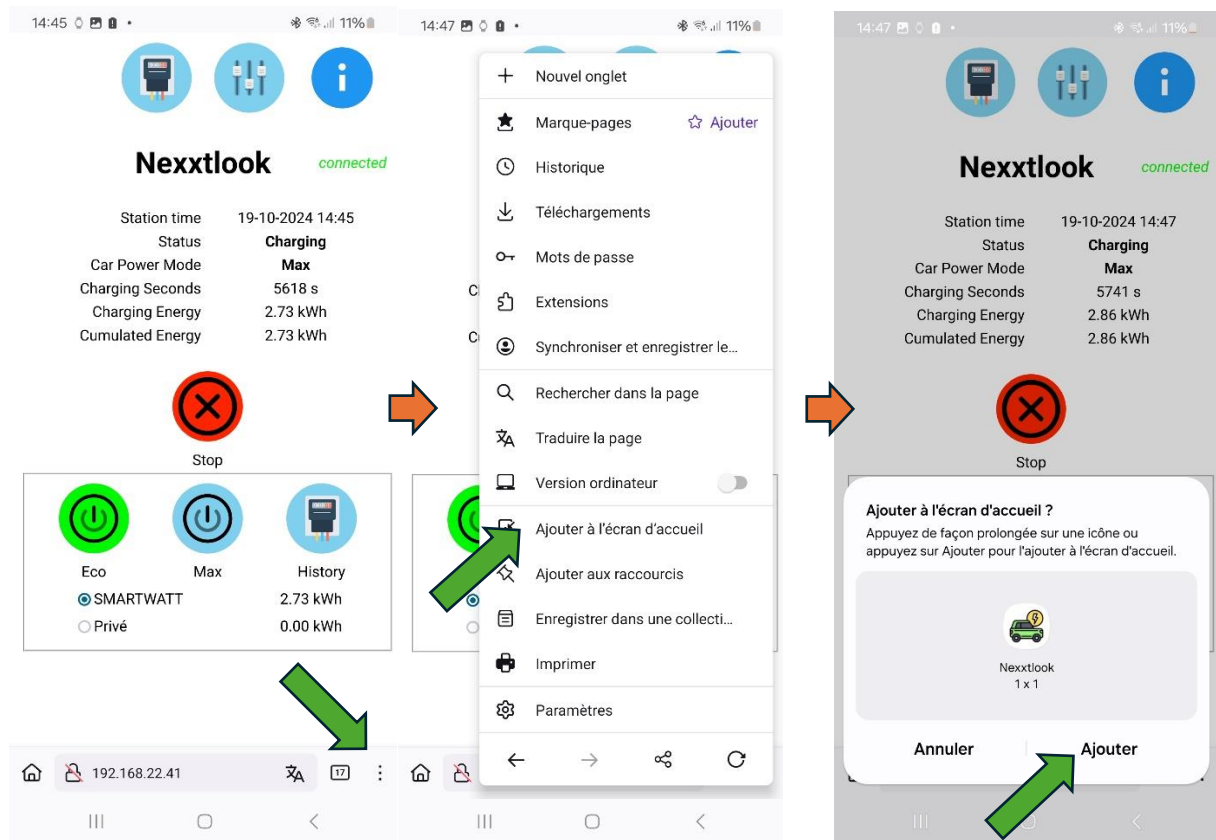
An icon will then appear on your home screen to take you directly to the page:
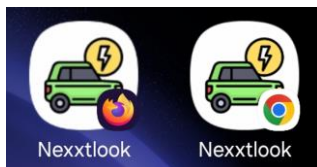
Home automation applications or experienced users: direct http commands

You can send commands to the recharging point using http commands. Below are the direct commands to send depending on the mode selected:

<address>: numeric or symbolic IP address

<id>: user serial number (from 1 to 8)

stop charge: http://<address>/charge/stop

start charge "Open Eco": http://<address>/charge/eco

start load "Open Max": http://<address>/load/max

start load "Private Eco": http://<address>/priveco?user=<id>

start load "Private Max": http://<address>/privmax?user=<id>

Disclaimer

Although the NEXXTLOOK device has been successfully tested on numerous hardware and software versions of the NEXXTENDER HOME terminal, LOOKWATT cannot guarantee that the kit will work in all cases. In particular, when the terminal presents an error (red LED: internal error code) or has been incorrectly connected (error in the phases or current clamps), NEXXTLOOK cannot correct this fault. For installation problems, contact your installer.

# Appendix: Correct electrical connection for charging point

It is essential that the electrical connection of the NEXXTENDER Home terminal is made in accordance with the manufacturer's instructions. Otherwise the terminal and the NEXXTLOOK device will not operate correctly.

The information provided in this section is taken from the terminal manufacturer's installation manual.

The clamps must be positioned the right way round and upstream of the installation's leading differential (= this position enables them to measure the currents of the electrical connection's meter).
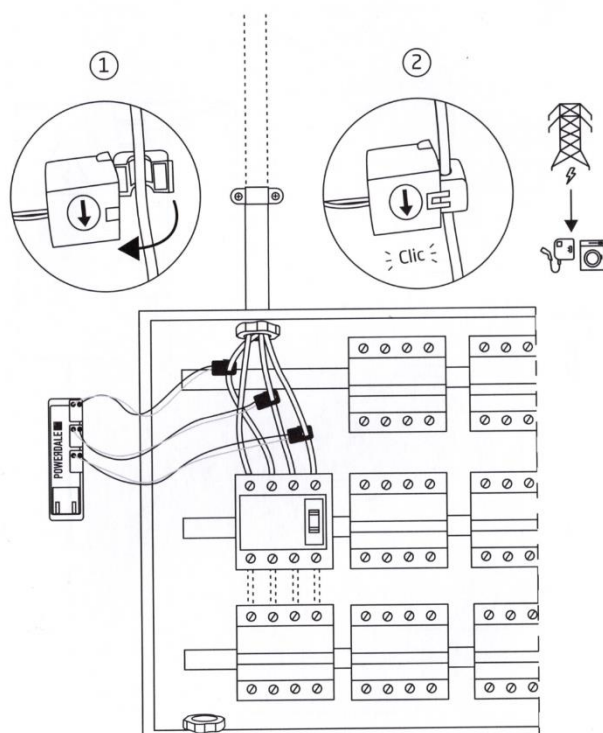
Depending on the topology of the connection (single-phase, three-phase without neutral 3x230V or three-phase with neutral 3x400V+N), the clamps must be placed on the phases, according to the following diagram:

3 x 400V + N

L1 L2 L3 N

3 x 230V

L1 L2 L3

1 x 230V + N

L1 N
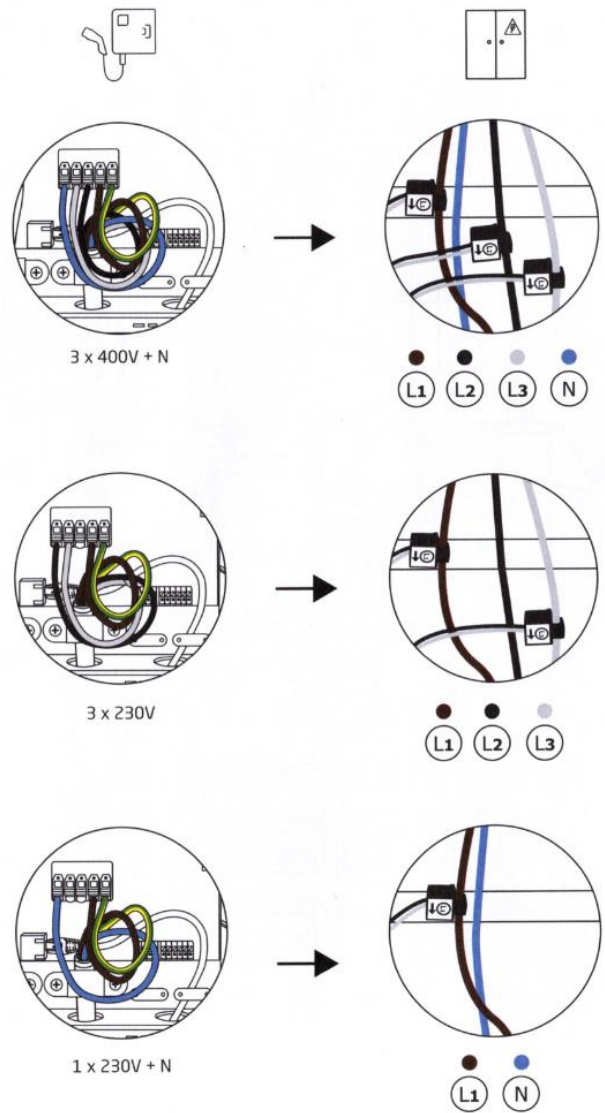
If the network topology does not require all the clamps to be used (as in three-phase without neutral 3x230V or single-phase), those that are not needed can be disconnected. In this case, we advise you to short-circuit the connector of the clamp that has been removed (wire between the + and - terminals), to prevent measurement noise.

Depending on the topology of the connection (single-phase, three-phase without neutral 3x230V or three-phase with neutral 3x400V+N), the terminal must also be connected specifically. The diagrams above show the connections to be made.