

How to connect KEBA KeContact P30 EV charger (Modbus TCP/IP, LAN) with Reduxi controller

Connect your KEBA KeContact P30 EV charger to the Reduxi Controller via Modbus TCP/IP over LAN.

🔧 KEBA KeContact P30 · Reduxi Controller

🌐 Modbus TCP/IP (LAN) 📡 Port 502 (default)



Automation by innovation.



KEBA KeContact P30 (photo: Wikimedia Commons)

Text description of this image

IN THIS ARTICLE

1. Technical documentation
2. Required equipment
3. Connect the charger to the network
4. Configure the charger
 - Access the web interface
 - Ethernet IP configuration
 - Enable Modbus TCP
5. Log in to the Reduxi web interface
 - Via the Reduxi app
 - Via a web browser
6. Add the charger to Reduxi
 - Basic settings
 - Communication settings
 - Test communication
7. Check the readings
8. Summary
9. Common issues
10. Related articles

1 Technical documentation

Documents from KEBA and FENECON for the KEBA KeContact P30:

- [Installation and Configuration Manual: KEBA KeContact P30 x-series \(FENECON\)](#) – Ethernet connection and installation steps
- [KEBA downloads](#) – Manuals, firmware and software from KEBA
- [KeContact P30 x-series configuration manual](#) – Configuration manual (PDF) from KEBA

2 Required equipment

Check these preconditions before you start:

- ☐ KEBA KeContact P30 is mechanically and electrically installed
- ☐ Charger is powered ON
- ☐ Ethernet cable
- ☐ Reduxi Controller
- ☐ Laptop or controller with Ethernet interface
- ☐ You have permission to access the charger configuration
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Connect the charger to the network

3.1 Ethernet physical connection

Locate the **Ethernet (RJ-45) port** inside the charger.

Connect an Ethernet cable to a network switch, directly to the controller, or directly to a service laptop.

Check that the link LEDs are active after power-up.

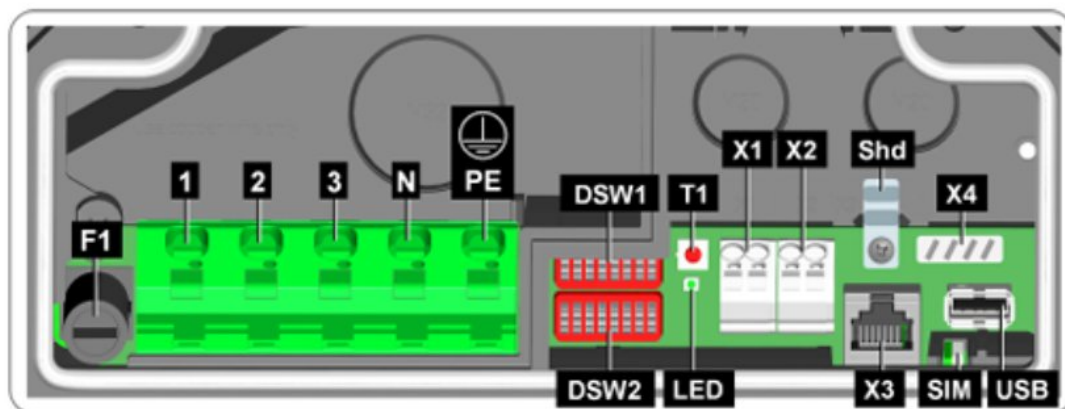


Fig. 7-16: Connection overview

F1 ... Fuse holder	1 ... Power connection phase conductor 1
2 ... Power connection phase conductor 2	3 ... Power connection phase conductor 3
N ... Power connection neutral conductor	PE ... Power connection grounding conductor
DSW1 ... DIP switch	DSW2 ... DIP switch
T1 ... Service button	LED ... Status LED
X1 ... Enable input	X2 ... Switch contact output
Shd ... Shield clamp (ground for ETH)	X3 ... Ethernet2 connection (RJ45)
X4 ... Ethernet1 connection (LSA+® terminals)	SIM ... SIM card slot (optional)
USB ... USB interface	

Connection overview inside the charger (X3: Ethernet2 connection, RJ45)

Text description of this image

4 Configure the charger

4.1 Access the web interface

The KEBA P30 has **no display**. You configure it in the **integrated web interface (Web UI)**. You need the IP address of the charger.

Find the IP address (DHCP):

Set the **DIP switch for DHCP to ON** (factory default).

Power on the charger.

The charger requests an IP address from the DHCP server of the network.

Find the assigned IP address with one of these methods: router DHCP lease list, network scan tool, KEBA service tool (if available).

Log in to the Web UI:

Open a web browser.

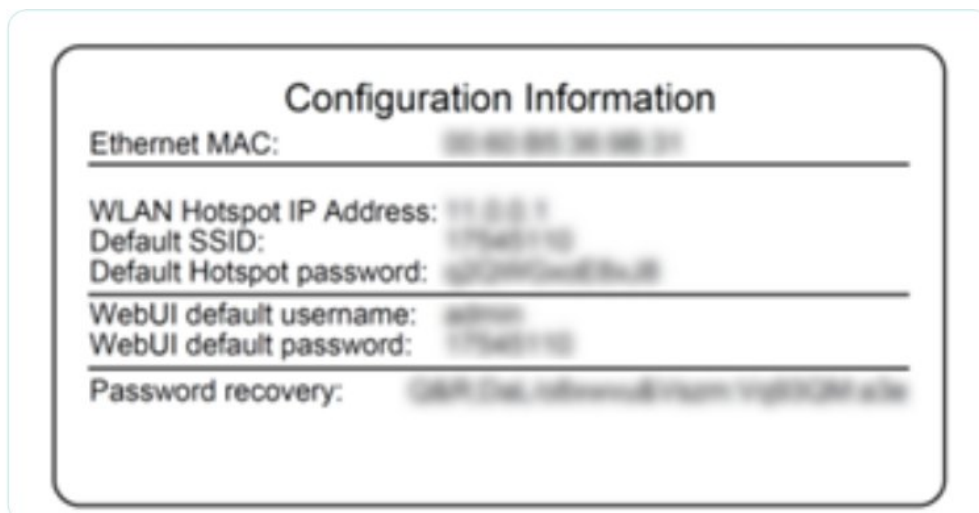
Enter the IP address of the charger: `http://<charger-ip-address>`

Log in with the administrator credentials.



Administrator password

KEBA provides the administrator (service) password for KeContact P30 chargers. You usually find it in one of these places: on the device label inside the charger, on the commissioning sheet delivered with the charger, or in the KEBA delivery documentation.

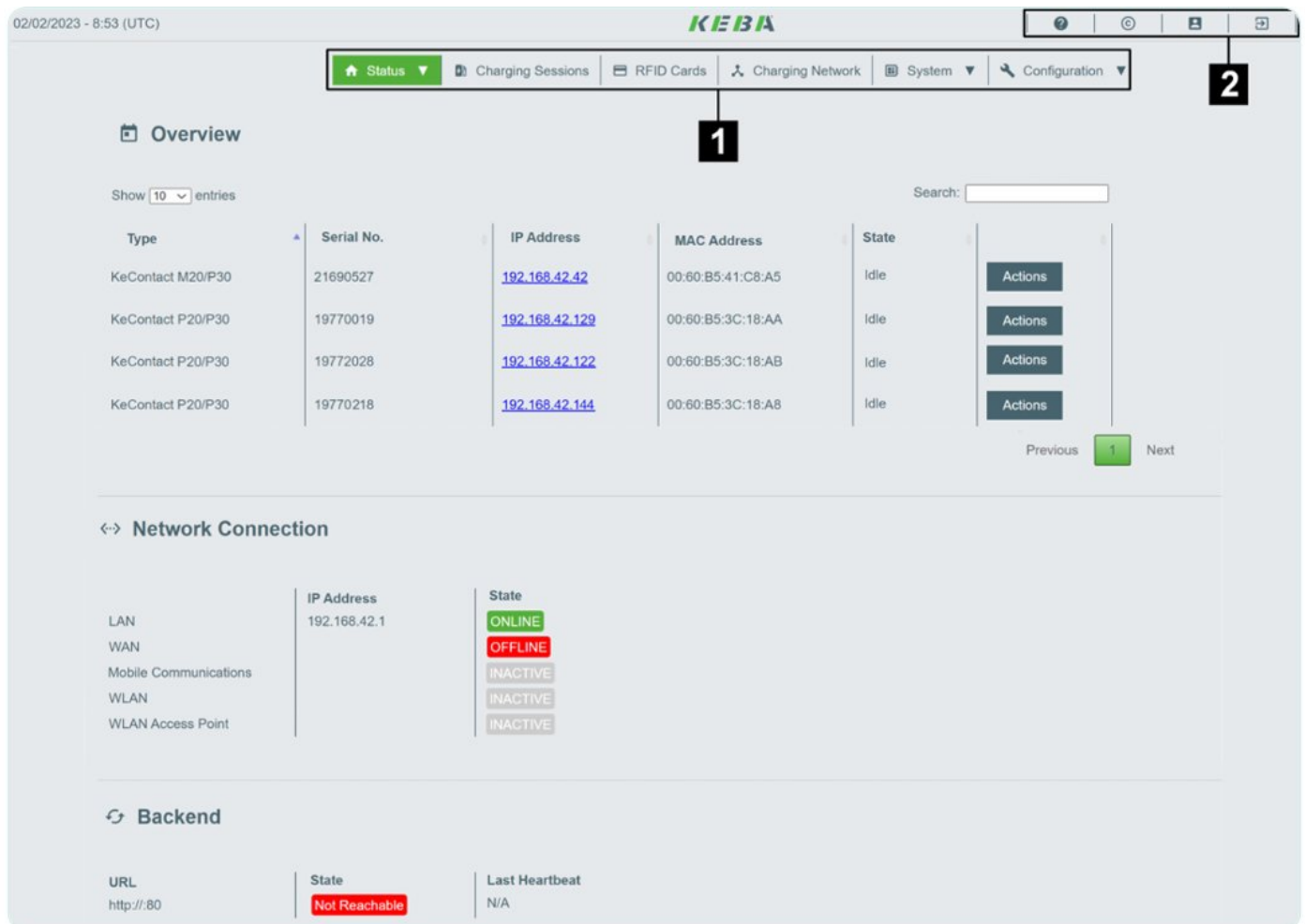


Configuration information label (example)

Text description of this image

4.2 Ethernet IP configuration

In the Web UI, go to **Network** → **Ethernet**. The current IP configuration is displayed.



Web UI example

Text description of this image

If you need a fixed IP address:

Select **IP configuration mode: Static**.

Enter the parameters: IP address (example **192.168.1.50**), subnet mask (example **255.255.255.0**) and default gateway (if required).

Save the settings.

Restart the charger.

Open the Web UI with the new IP address.

4.3 Enable Modbus TCP

In the Web UI, go to **Communication settings**.

Enable the required TCP/IP communication interface: **Modbus TCP** (if the controller communicates via Modbus).

Disable unused communication interfaces.

Save the settings.

Restart the charger.

5 Log in to the Reduxi web interface

You can open the Reduxi web interface in two ways:



Reduxi app

Via tunnel connection · works from anywhere

REMOTE



Web browser

In the local network · via IP address or reduxि.local



5.1 Via the Reduxi app

1

Open the app and log in

Launch the Reduxi app on your smartphone or tablet and log in with your credentials.

2

Open Reduxi devices

Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3

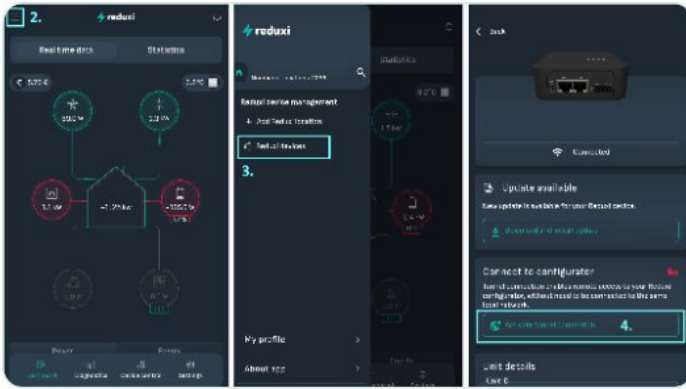
Activate the tunnel connection

Switch on the tunnel connection and wait a moment until it is active.

4

Open the configurator

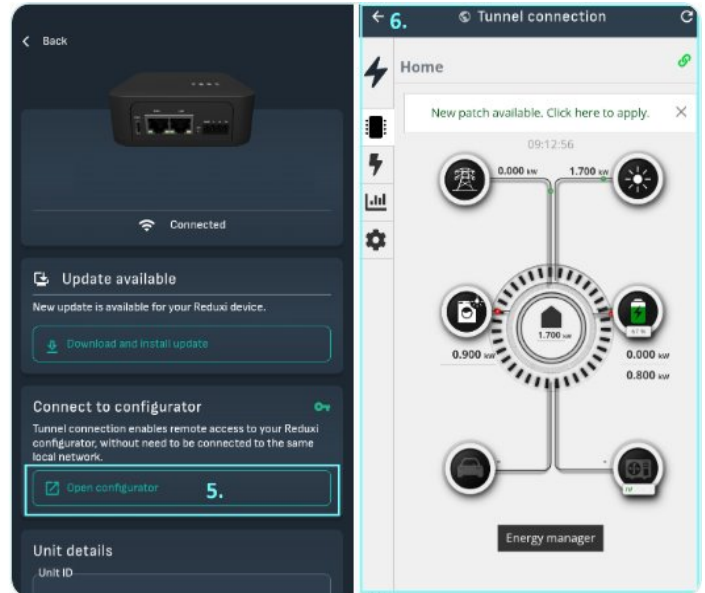
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)

Text description of this image

Screenshot of three Reduxi mobile app screens side by side, with cyan boxes and number badges 2 to 4. Left screen (dashboard, dark theme): menu icon at top left marked with a box and badge 2; 'reduxi' logo; tabs 'Real time data' (active) and 'Statistics'; price 5.79



Open configurator (step 4)

Text description of this image

Screenshot of the Reduxi mobile app showing the 'Tunnel connection' screen with a 'New patch available' notification and a 'Home' button.

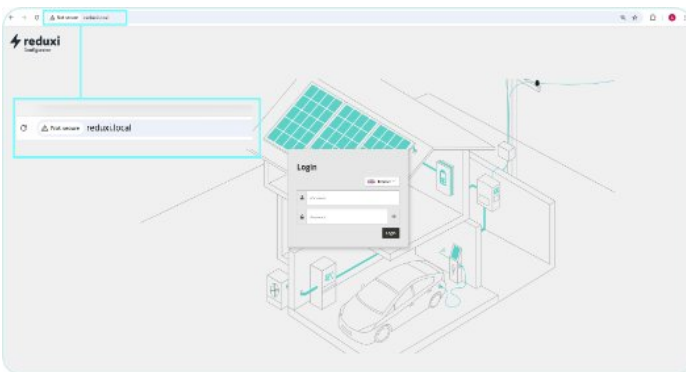
5.2 Via a web browser

1 Open the login page

On a device in the same network, open a web browser and enter the controller's IP address or <http://reduxi.local>. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

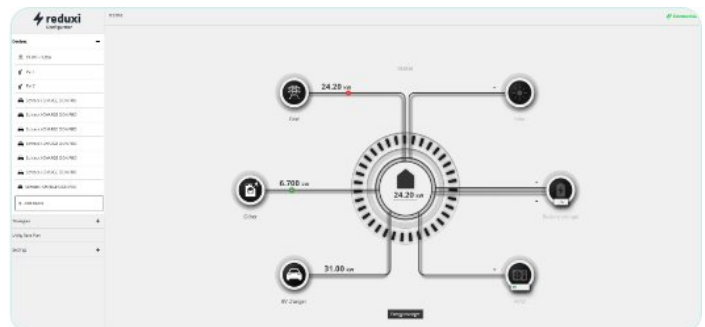
2 Log in

Username: **admin** · Password: **admin** (factory default)



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

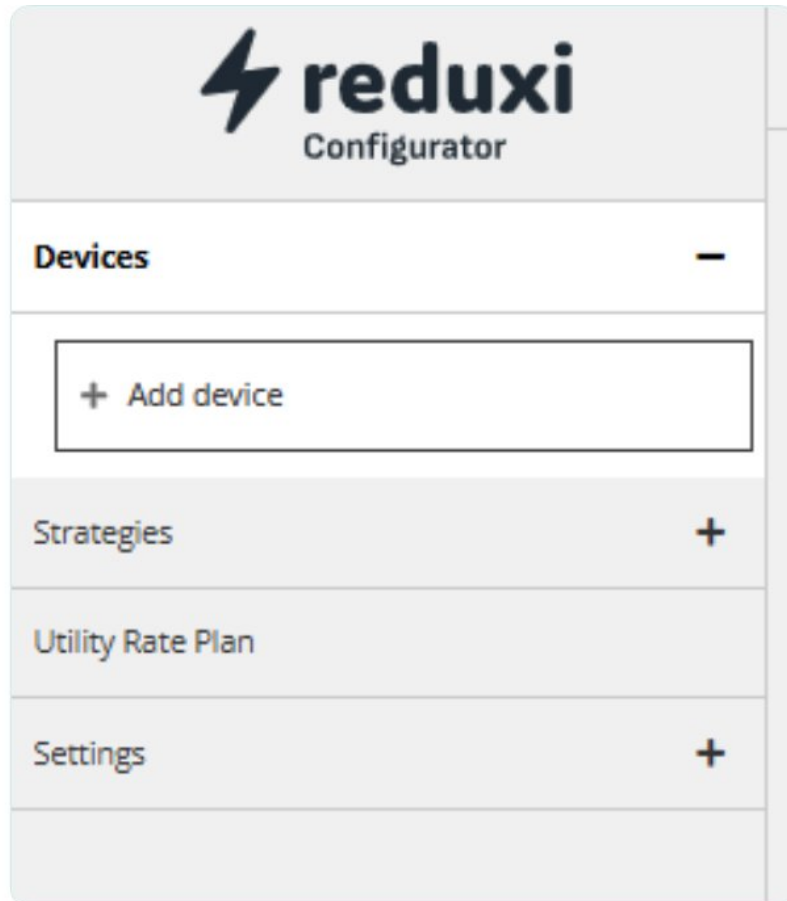
Screenshot of the Reduxi Configurator web interface

6 Add the charger to Reduxi

Use these steps to add a new charger or to edit an existing one.

6.1 Basic settings

Log in locally to the [Reduxi Configurator](#) on the controller (see [Point 5](#)) and click **+ Add device**.



The Add device button

Text description of this image

In the first step (basic settings), select the basic parameters of the device:

- Device type: choose the device type
- Type: choose the type
- Name: a name of your choice

1 Basic settings

2 Communication channel

Basic settings

Device type *

Type *

Name *

Back Next

Basic settings: device type, type and name

Text description of this image

Click **Next**.

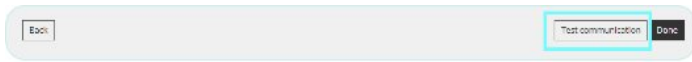
6.2 Communication settings

Fill in the communication parameters of the charger:

PARAMETER	VALUE
Connection	TCP/IP
IP	The IP address of the charger (see Point 4)
Port	502 (Modbus TCP default of the KEBA KeContact P30)
Modbus address	The Modbus address (unit ID) set on the charger. See the KEBA documentation in Point 1 .

6.3 Test communication

Click **Test communication** at the bottom of the wizard. It reads the KEBA KeContact P30 once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



The *Test communication* button

Text description of this image

Screenshot of the bottom button bar of a Reduxi Configurator page. Left: button 'Back'. Right: button 'Test communication' (marked with a cyan box) and dark button 'Done'.



The *Done* button

2. Text description of this image

Communication channel and device configuration

7 Check the readings

7.1 Last measurements

After communication is established, open the charger under **Devices** in the [Reduxi Configurator](#) and check the values as an additional test.

7.2 Enable control by Reduxi

To control the charger with Reduxi strategies, set the **control type** of the device to **AUTO**. Only then do strategy commands affect the charger.

To define a strategy, follow [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Get the KEBA documents. Install and power the charger. Prepare the Ethernet cable, the Reduxi Controller and a laptop or tablet.

KEBA charger (Points 3–4): Connect the charger to the network. Find its IP address, set a static IP if needed and enable Modbus TCP in the Web UI. Restart the charger.

Add to Reduxi (Points 5–6): Log in to the Reduxi web interface. Add the device and set the communication parameters. Run Test communication, then click Done.

Go live (Point 7): Check the last measurements. Set the control type to AUTO.

→ Common issues

ISSUE	SOLUTION
Web UI is not reachable	Check that the DIP switch for DHCP is ON and the Ethernet cable is connected. Check that the link LEDs are active. Find the IP address in the router DHCP lease list (see Point 4).
Cannot log in to the Web UI	Use the administrator password from the label inside the charger, the commissioning sheet or the KEBA delivery documentation.
Test communication fails	Check that Modbus TCP is enabled under Communication settings in the Web UI and that the charger was restarted after saving. Check the IP address and port in Point 6 .
Open configurator does not open or stays empty	The tunnel is not active yet. Wait about 30 seconds and check that the controller is online.
Login with <code>admin</code> is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
<code>reduxi.local</code> does not load	Your device is not in the same network as the controller. Use the IP address or the tunnel connection.
Communication test fails, device shows offline	Check reachability, IP address / port / unit ID, and that the protocol is enabled on the device.

→ Related articles

Matching guides from the Reduxi knowledge base:



KEBA downloads

Manuals, firmware and software from KEBA.



Device setup guides

All step-by-step guides for connecting devices to the Reduxi Controller



Strategies for the Reduxi Controller

Energy manager and other strategies explained