REDUXI CONTROLLER · KNOWLEDGE BASE

How to connect Shelly 3EM energy meter with Reduxi controller

Connect your Shelly 3EM to the Reduxi Controller over your local Wi-Fi network.

Shelly 3EM · Reduxi Controller

Wi-Fi 802.11 b/g/n

REST API over the local network

Shelly 3EM energy meter

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1 Technical documentation

Instructions for connecting and configuring the device are on the manufacturer web page. These documents belong to the Shelly 3EM:

- **Shelly 3EM: knowledge base** – Connection and configuration instructions on the manufacturer web page
- **Shelly 3EM: User and Safety Guide** – Installation and safety instructions
- **Shelly API documentation** – Interfaces of Shelly devices

2 Required equipment

You need the following components:

- [ ] Reduxi Controller
- [ ] Shelly 3EM with the 3 current transformers (120 A, supplied with the device)
- [ ] Local Wi-Fi network (802.11 b/g/n)
- [ ] Smart device (phone, computer or tablet) to configure the Shelly
- [ ] Laptop or tablet with internet access to configure the device in Reduxi

3 Connect the Shelly 3EM to your Wi-Fi network

3.1 Connect Shelly to the power supply

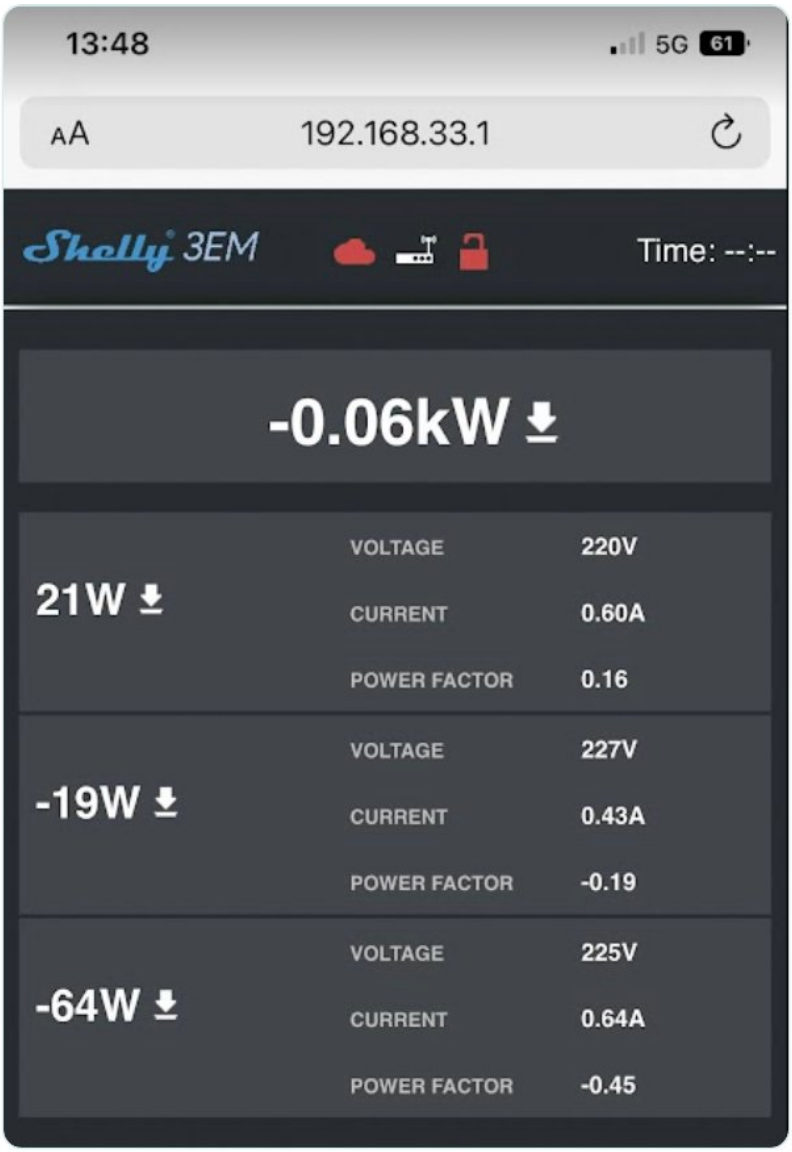
The Shelly 3EM is supplied with 110–230 V AC ±10 %, 50/60 Hz.

3.2 Connect to the Shelly Wi-Fi with a smart device (phone, computer, tablet)

The Shelly Wi-Fi network is available when you scan for Wi-Fi networks. Connect your smart device to it.

3.3 Open the browser and go to the default Shelly IP

The default Shelly IP is `192.168.1.33`.



Web interface of the Shelly 3EM

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3.4 Open the Wi-Fi settings and connect to your local Wi-Fi network

Open **Internet & Security** and switch on **Connect the Shelly device to an existing WiFi Network** under **WIFI MODE - CLIENT**.

1. Internet & Security

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2. Connect to an existing Wi-Fi network

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Enter the name and password of your Wi-Fi network. Enter a static IP address (recommended). Enter the mask and, optionally, the default gateway IP. Press **SAVE**.

Wi-Fi client settings

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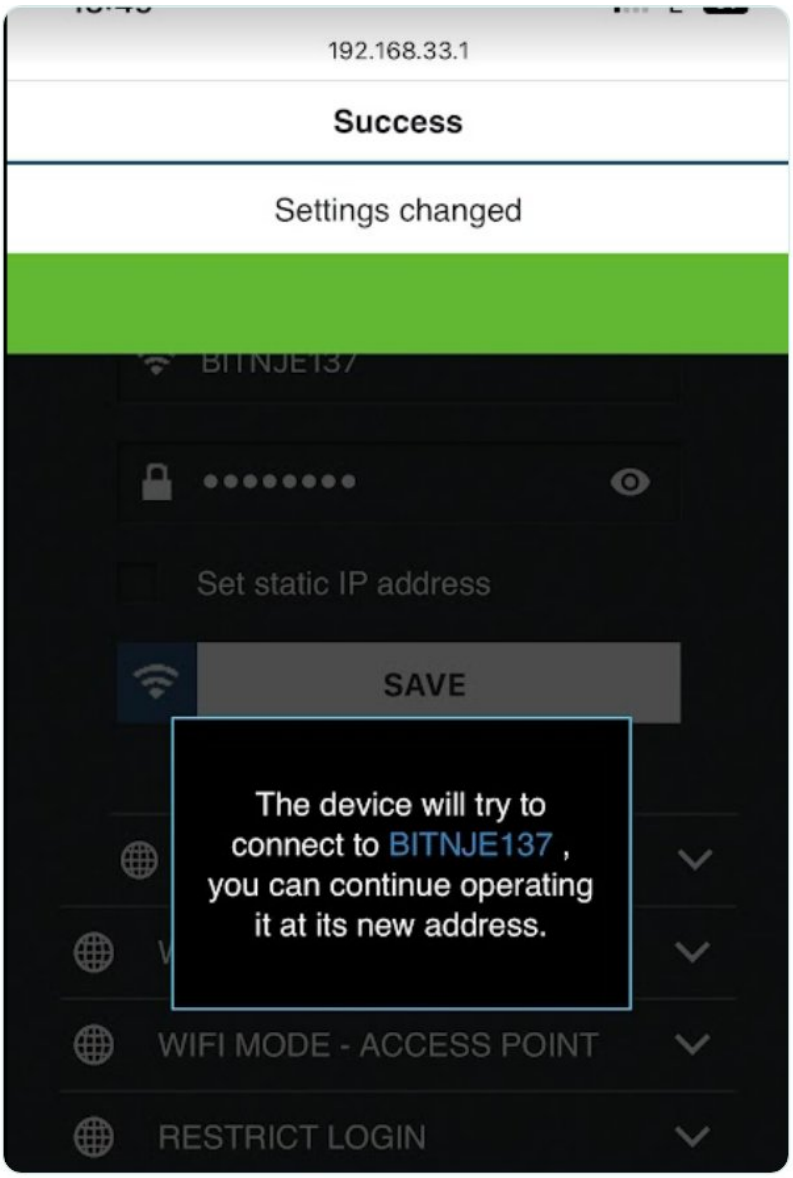
3.5 Shelly restarts and is accessible with the new IP



Confirmation after saving the Wi-Fi settings

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3.6 Connect to Shelly over your local network

Connect your smart device to your local network. Enter the IP address that you set for the Shelly device in the browser bar.

> **Note**
> Use the same IP to add the device to the **Reduxi Configurator** (see **Point 5**).

4 Log in to the Reduxi web interface

You can open the Reduxi web interface in two ways:

REMOTE

Reduxi app

Via tunnel connection · works from anywhere

Web browser

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

4.1 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

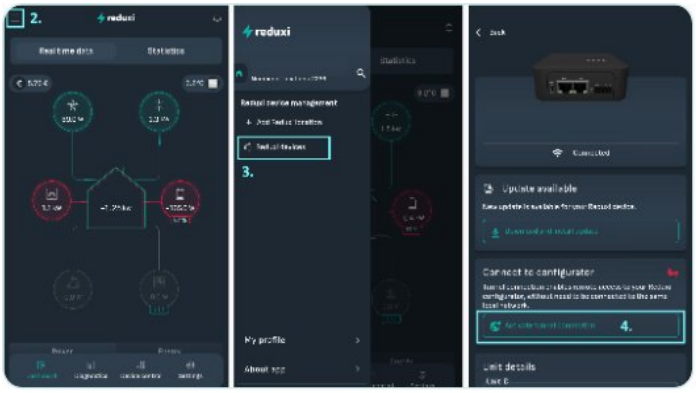
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

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)

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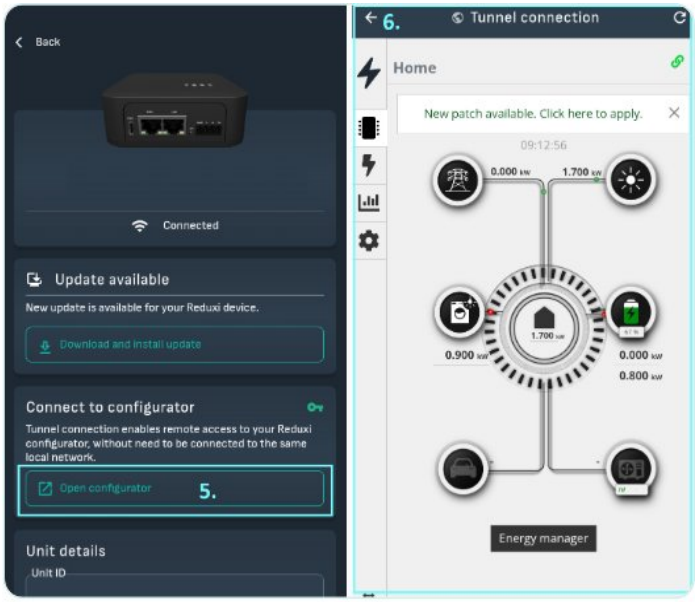
Screenshot of three Reduxi mobile app screens side by side, with cyan boxes and number badges 2 to 4. Left screen (dashboard, dark theme): menu icon at top left marked with a box and badge 2; 'reduxi' logo; tabs 'Real time data' (active) and 'Statistics'; price 5.79



Open configurator (step 4)

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4.2 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

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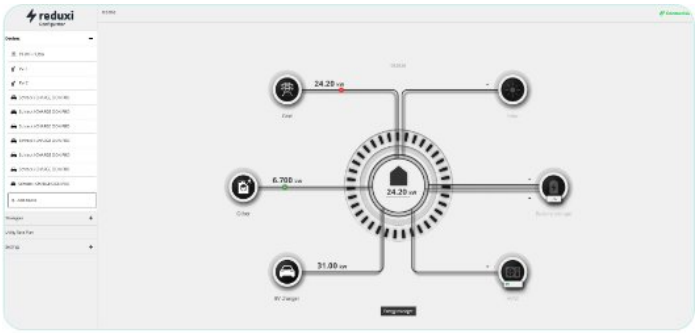

Controller web interface after login

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Screenshot of the Reduxi Configurator web interface

5 Add the Shelly 3EM to Reduxi

Use these steps to add a new Shelly 3EM or to edit an existing one.

5.1 Basic settings

Log in locally to the Reduxi Configurator on the controller (see Point 4) and press the **Add device** button. In the first step, enter the basic settings of the device: select the energy meter and the Shelly 3EM, and enter a name of your choice. Then press **Next**.

5.2 Communication settings

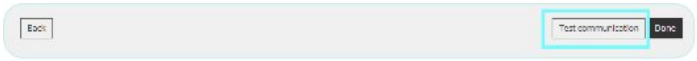
Select the communication channel. Enter the connection details of the Shelly 3EM:

PARAMETER	VALUE
Connection	Local network (TCP/IP), REST API
IP	The IP address you set on the Shelly in Point 3

Then enter and choose the advanced settings.

5.3 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Shelly 3EM 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*

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6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices – Shelly 3EM** in the Reduxi Configurator as an additional test.

✓ Summary

Preparation (Points 1–2): Open the Shelly documentation and prepare the equipment.

Shelly 3EM (Point 3): Power the Shelly, open its web interface and connect it to your Wi-Fi network with a static IP.

Add to Reduxi (Points 4–5): Log in to the Reduxi Configurator, add the device with the Shelly IP and test the communication.

Go live (Point 6): Check the last measurements under Devices.

Common issues

ISSUE	SOLUTION
The Shelly web interface does not open after saving the Wi-Fi settings	The Shelly restarts and is reachable only at the new IP. Connect your smart device to the local network and enter the IP you set.
Test communication fails	Check that the IP in the Reduxi Configurator is the same IP you set on the Shelly. A static IP is recommended.
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 `admin` is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
`reduxi.local` 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:

Shelly 3EM: knowledge base
Connection and configuration instructions from the manufacturer.

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