

Reduxi with UrbanBox Iskraemeco

Reduxi and the Iskraemeco UrbanBox EVSE enable dynamic load management (DLM). It protects the installation and optimizes costs under dynamic pricing strategies.

🔧 Iskraemeco UrbanBox EVSE · Reduxi Controller

🌐 OCPP 1.6 JSON

📡 Router 192.168.2.1:8080 · switch 192.168.2.2:8080

🔑 Device type: EV charger



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1 Required equipment

You need the following components:

- ☐ Iskraemeco UrbanBox EVSE (it contains a router and a switch)
- ☐ Reduxi Controller
- ☐ Local LAN network with a switch or router
- ☐ Ethernet cables
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

2 Connect the UrbanBox to the local LAN network

The Iskraemeco UrbanBox EVSE must be connected to the local LAN network. It contains a router and a switch. Wire both devices correctly.

2.1 Wiring of the router and the switch

1

White cable: LAN to router

Connect the white cable from the switch or router of the local LAN network to the **top ETH port** on the UrbanBox router.

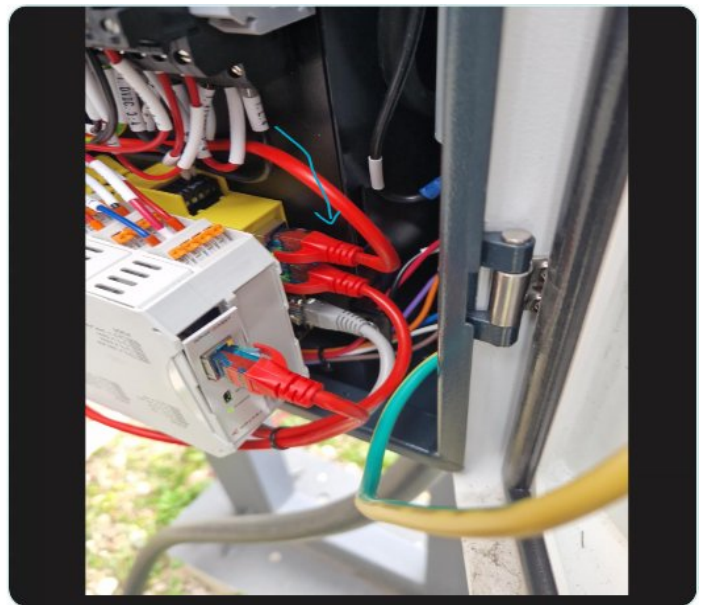
2

Red cable: router to switch

Connect the red cable from the **bottom ETH port** of the UrbanBox router to the **top ETH port** on the UrbanBox switch.



White cable to the top ETH port of the router



Red cable to the top ETH port of the switch

3 Configure the UrbanBox

3.1 Router settings

For OCPP communication, set the router correctly. Open the router at <http://192.168.2.1:8080>.

PARAMETER	VALUE
Address	<code>http://192.168.2.1:8080</code>
Username	<code>adm</code>
Password	<code>Iskraemeco2024!</code>

1 Set DHCP on the WAN interface

Go to **Network / LAN, WAN switch / Interface WAN** and set **DHCP** (dynamic configuration of the IP address).

2 Enable port 2

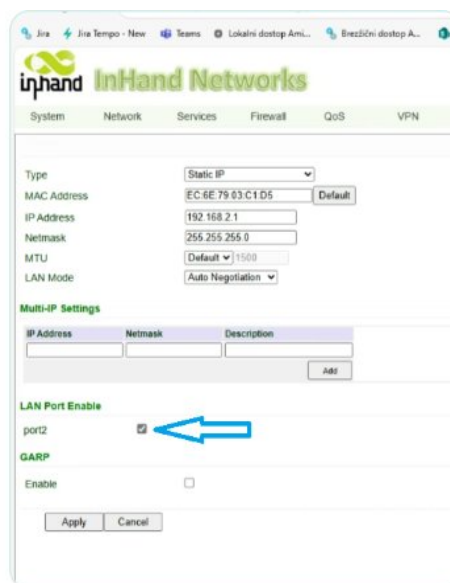
Go to **Network / LAN** and enable **port 2**.

3 Set the firewall policy

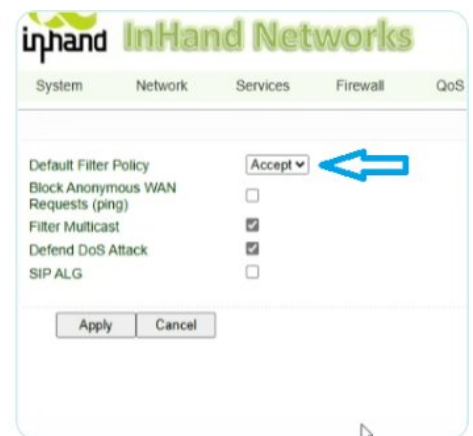
Go to **Firewall**, open **Default Filter Policy** and set **Accept**.



1. WAN interface: DHCP



2. LAN port 2 enabled



3. Default Filter Policy: Accept

3.2 Switch access for the OCPP settings



Important

Connect directly to the switch.

PARAMETER	VALUE
Address	http://192.168.2.2:8080
Username	tec
Password	changeme

3.3 OCPP settings

Finish the settings in Points 3.1 and 3.2 first. Then define the OCPP settings on the switch (the interface of the EVSE).

1 Open the software properties

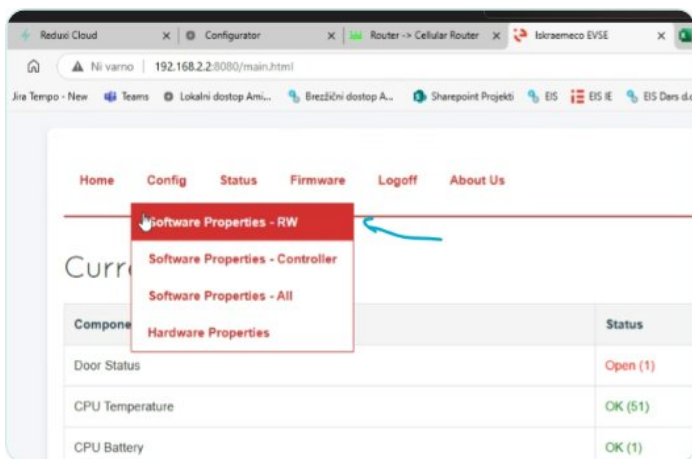
Go to **Config / Software Properties – RW**.

2 Set the OCPP URL

Set `lsk.evse.Cfg.cpms.uri` to the OCPP URL of the Reduxi server (see [Point 5](#), Point 5.2).

3 Copy the station ID

Copy `lsk.evse.stationId`. You need it in Reduxi as device identifier (see [Point 5](#), Point 5.2).



Config / Software Properties – RW



Parameters `lsk.evse.Cfg.cpms.uri` and `lsk.evse.stationId`

4 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 `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

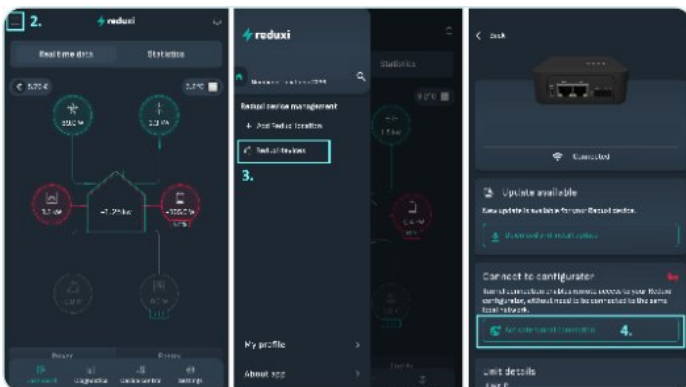
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

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)



Open configurator (step 4)

4.2 Via a web browser

1 Open the login page

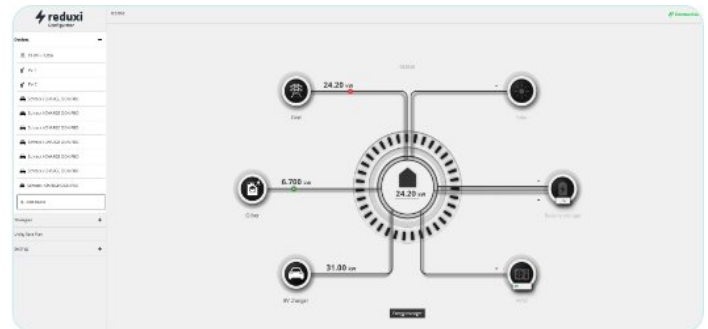
On a device in the same network, open a web browser and enter the controller's IP address or <http://reduxi.local>. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

Log in

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



Reduxi Controller login screen

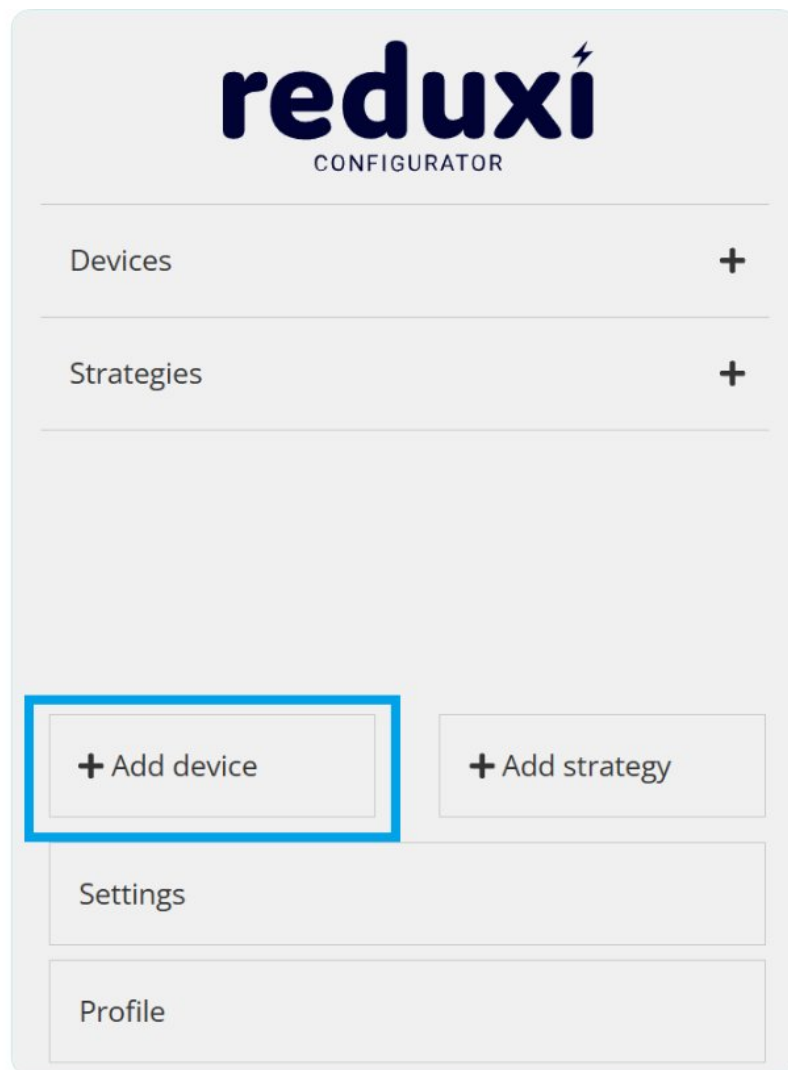


Controller web interface after login

5 Add the UrbanBox to Reduxi

5.1 Add device and basic settings

Log in locally to the [Reduxi Configurator](#) (see [Point 4](#)) and click **+ Add device**.



The + Add device button

In the first step, select the basic settings:

- Device type: **EV charger**
- Type: **OCPP 1.6 - JSON**
- Name: a name of your choice

1

2

3

Basic settings

Communication channel

Advanced settings

Basic settings

Device type *

Type *

Name *

Back

Next

Basic settings

5.2 Device configuration for OCPP

The second step sets up the communication channel for OCPP.

- **Device identifier** (station unique identifier): enter the identifier from the Iskraemeco UrbanBox application in the first field. It is the station ID you copied in [Point 3](#), Point 3.3. Example: `Polnilnica1`
- **Server OCPP URL**: with OCPP JSON 1.6, the Reduxi Controller generates the URL. Copy it from the communication channel and enter it on the switch (see [Point 3](#), Point 3.3). Example: `ws://10.150.120/ocpp/1.6/json/`

Communication channel and device configuration

Device identifier *

1234

Connector *

1

Charger type *

AC

Energy counter

Default

Allocate power to EVSE when EV is not connected to EVSE

Default

Per phase max. current *

Auto detect from EVSE

Per phase max. current manual override

32

In effect when manual override is selected

Forward communication to backend OCPP server

ws://app.eu.tridenstechnology.com/ev-charge/gw-comm/glcharge

Forward measurements to backend OCPP server once every

30 seconds

Allow new charging session

Forward to backend OCPP server

Controller OCPP JSON 1.6 URL

ws://10.150.1.120/ocpp/1.6/json

Back

Test communication

Next

Communication channel for OCPP

5.3 Test communication

Click **Test communication** at the lower right, below the communication fields. It checks whether OCPP communication is established. If the test succeeds, click **Done**: only **Done** creates the device.

1 Basic settings 2 Communication channel 3 Advanced settings

Communication channel and device configuration

Device identifier *

my_station_ID1

Connector *

1

Charger type *

AC

Energy counter

Default

Allocate power to EVSE when EV is not connected to EVSE

Default

Per phase max. current *

Manual override

Per phase max. current manual override

32

In effect when manual override is selected

Forward communication to backend OCPP server

Allow new charging session

Always

Controller OCPP JSON 1.6 URL

ws://192.168.1.200/ocpp/1.6/json

Back Test communication Test

The **Test communication** button

The test returns one of two results:



1. Communication works properly

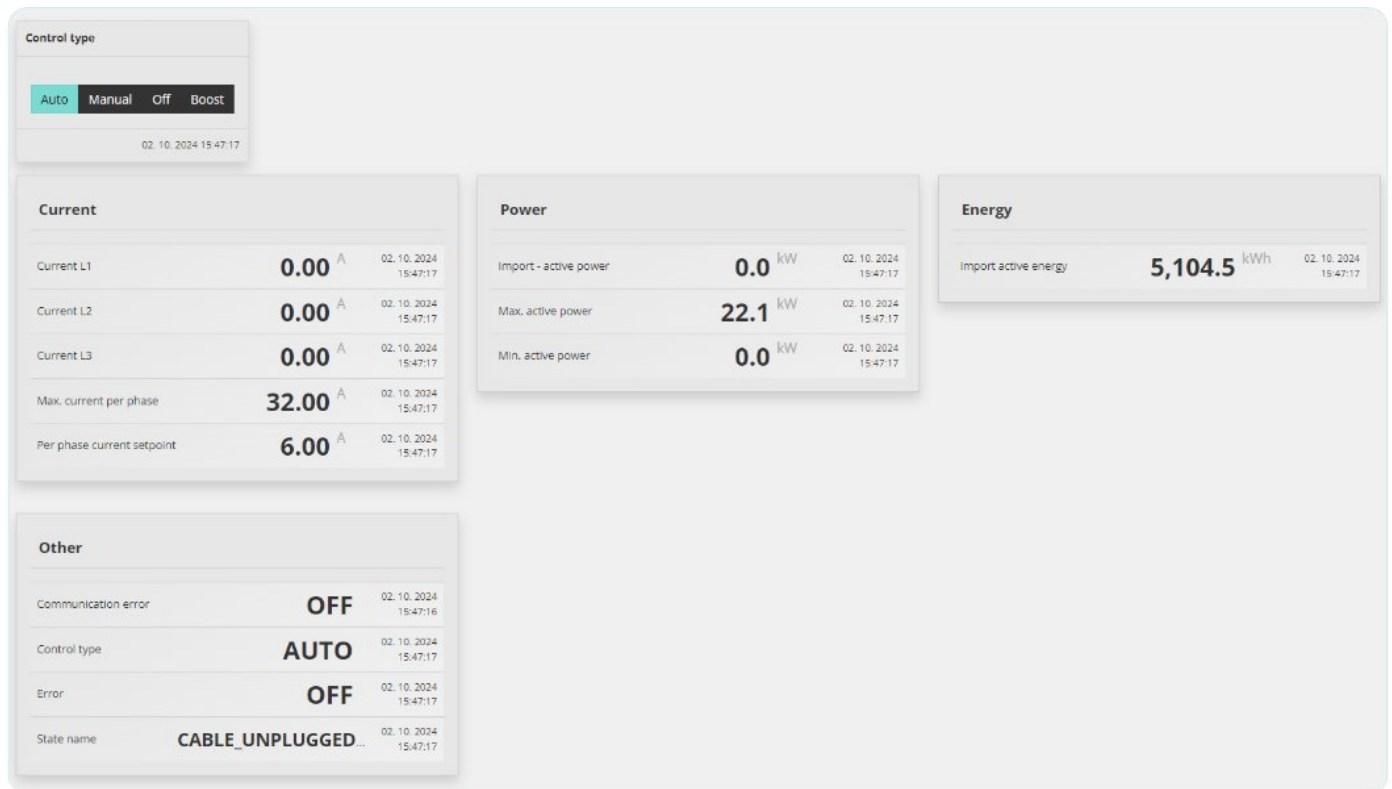


2. No device with OCPP 1.6 communication found

6 Check the readings

6.1 Last measurements

Check the readings of the new device under **Device – Last measurement** in the Reduxi Configurator.



Last measurements of the EVSE

6.2 Enable control by Reduxi

For advanced EVSE control, integrate the device into the strategy of the Reduxi system. Under **Devices – Iskraemeco UrbanBox EVSE** in the [Reduxi Configurator](#), set the **control type** to **AUTO**. Only then do strategy commands affect the EVSE.

To achieve maximum flexibility and energy cost reduction with dynamic prices and dynamic tariffs, define a strategy as described in [Strategies for Reduxi controller](#).

After you add the device, you can monitor and control it in the [Reduxi application](#).

✓ Summary

Preparation (Points 1–2): Collect the cables and a laptop or tablet. Connect the UrbanBox router and switch to the local LAN network.

Iskraemeco UrbanBox (Point 3): Set the router (DHCP, port 2, firewall policy Accept). Open the switch directly. Set the OCPP URL and copy the station ID.

Add to Reduxi (Points 4–5): Log in to the Reduxi web interface. Add an **EV charger** of type **OCPP 1.6 - JSON**, enter the device identifier, run **Test communication** and click **Done**.

Go live (Point 6): Check the readings. Set the control type to AUTO and define a strategy.

→ Common issues

ISSUE	SOLUTION
Test communication fails: no device found on OCPP 1.6 JSON	Check the router settings (see Point 3 , Point 3.1), the OCPP URL and the station ID on the switch (Point 3.3) and the device identifier in Reduxi (see Point 5 , Point 5.2).
The switch does not open	Connect directly to the switch (see Point 3 , Point 3.2).
The EVSE ignores strategy commands	Set the control type to AUTO (see Point 6 , Point 6.2).
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:



EV charger via OCPP 1.6J

General Reduxi guide for EV chargers connected via OCPP 1.6J.



Device setup guides

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



List of supported devices

All devices that work with the Reduxi Controller



Strategies for the Reduxi Controller

Energy manager and other strategies explained