

How to connect GL Charge GlowBox Silver EV charger (Modbus RTU) with Reduxi controller

Connect the GL Charge GlowBox to Reduxi via Modbus RTU. The connection lets Reduxi execute dynamic load management (DLM) to protect the installation.

🔌 GL Charge GlowBox Silver · Reduxi Controller

🌐 Modbus RTU · 9600 baud, 8N1

🔧 Modbus ID 1 (DIP switches 5 and 6 OFF)



IN THIS ARTICLE

1. Prepare

- Technical documentation
- Required equipment

2. Connect the GlowBox to Reduxi with Modbus RTU

- Physical connection
- DIP switches

3. Log in to the Reduxi web interface

- Via the Reduxi app
- Via a web browser

4. Add the GlowBox to Reduxi

- Basic settings
- Communication settings
- Test communication

5. Check the readings

6. Summary

7. Common issues

8. Related articles

1 Prepare

1.1 Technical documentation

- [GlowBox product page](#) – Manufacturer page of the GlowBox charger (Iskraemeco eMobility)

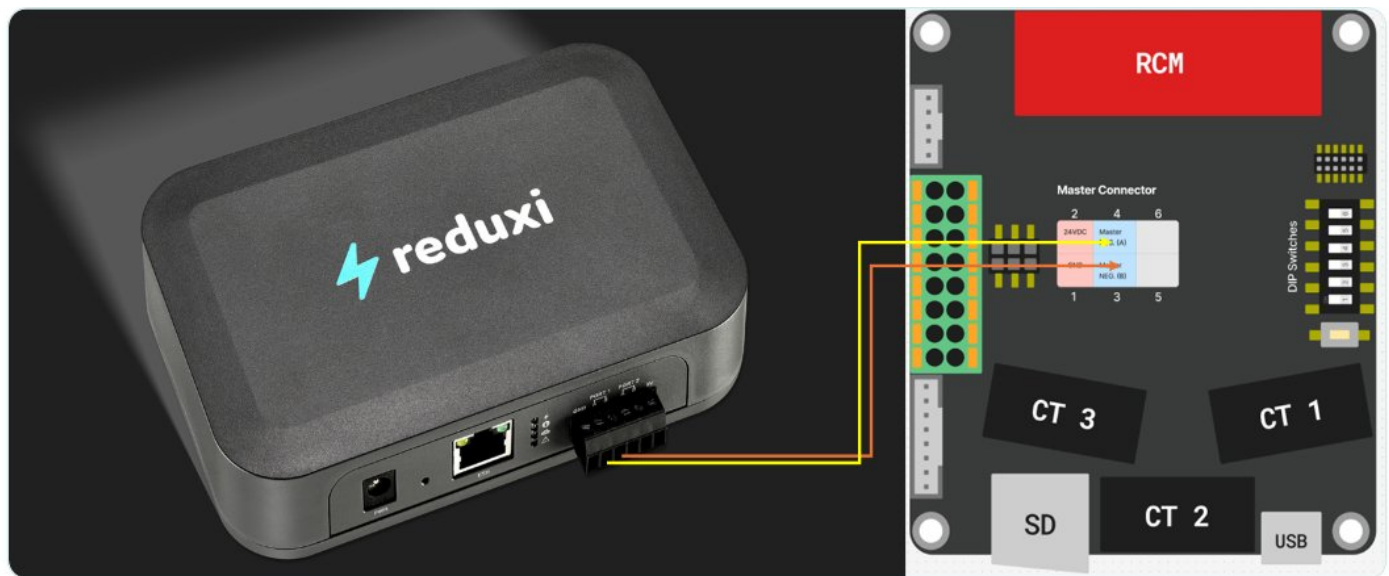
1.2 Required equipment

- ☐ GL Charge GlowBox charger
- ☐ Reduxi Controller
- ☐ Cable for the Modbus RTU connection between the controller and the charger
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

2 Connect the GlowBox to Reduxi with Modbus RTU

2.1 Physical connection between the Reduxi Controller and the GlowBox

Establish the Modbus RTU physical connection as shown in the picture.



Modbus RTU connection between the Reduxi Controller and the GlowBox

Text description of this image

2.2 Set the DIP switches

For Modbus RTU, set the first 4 of the 6 DIP switches to **OFF**. DIP switches 5 and 6 define the slave address.

DIP SWITCHES 5 – 6	MODBUS RTU ID
00 (OFF, OFF)	1
01	2
10	3
11	4

Example: DIP switches 1, 2, 3, 4 = OFF. DIP switches 5, 6 = OFF and OFF, which gives address 1.



DIP switches and Modbus RTU ID

Text description of this image

3 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`



3.1 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

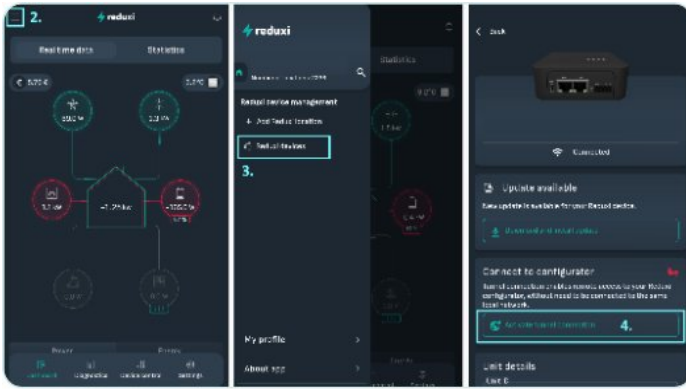
Activate the tunnel connection

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

4

Open the configurator

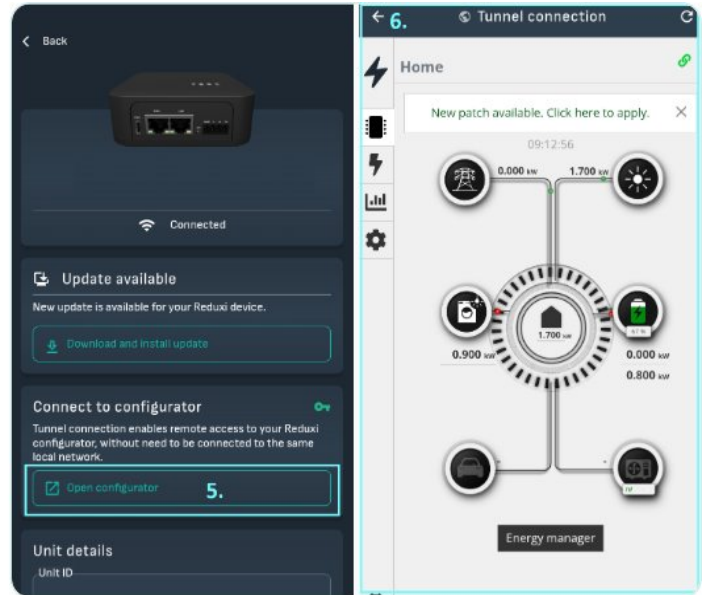
Tap **Open configurator**. The Reduxi web interface opens.



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

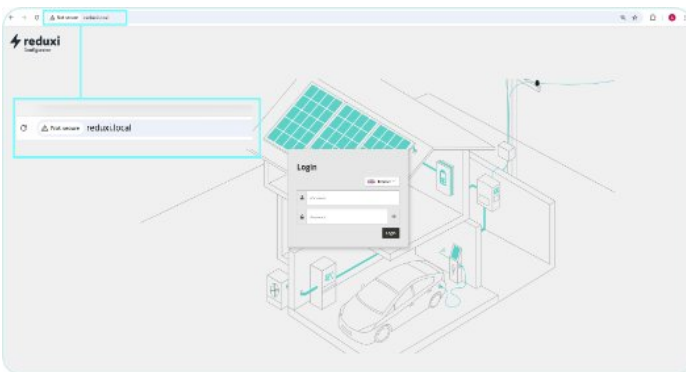
3.2 Via a web browser

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**.

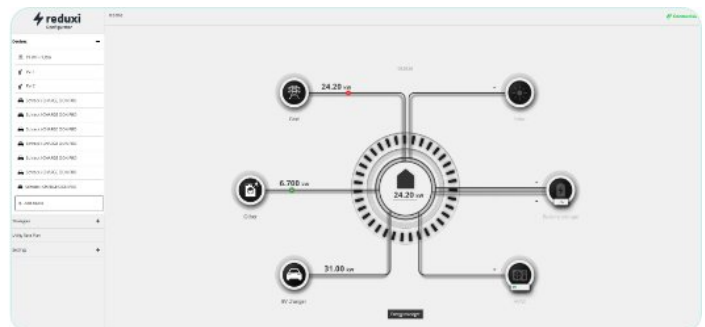
2 Log in

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

4 Add the GlowBox to Reduxi

Use these steps to add the GlowBox to the Reduxi Controller.

4.1 Basic settings

Log in locally to the [Reduxi Configurator](#) (see [Point 3](#)) and click the **Add device** button.

reduxi[⚡]

CONFIGURATOR

Devices



Strategies



+ Add device

+ Add strategy

Settings

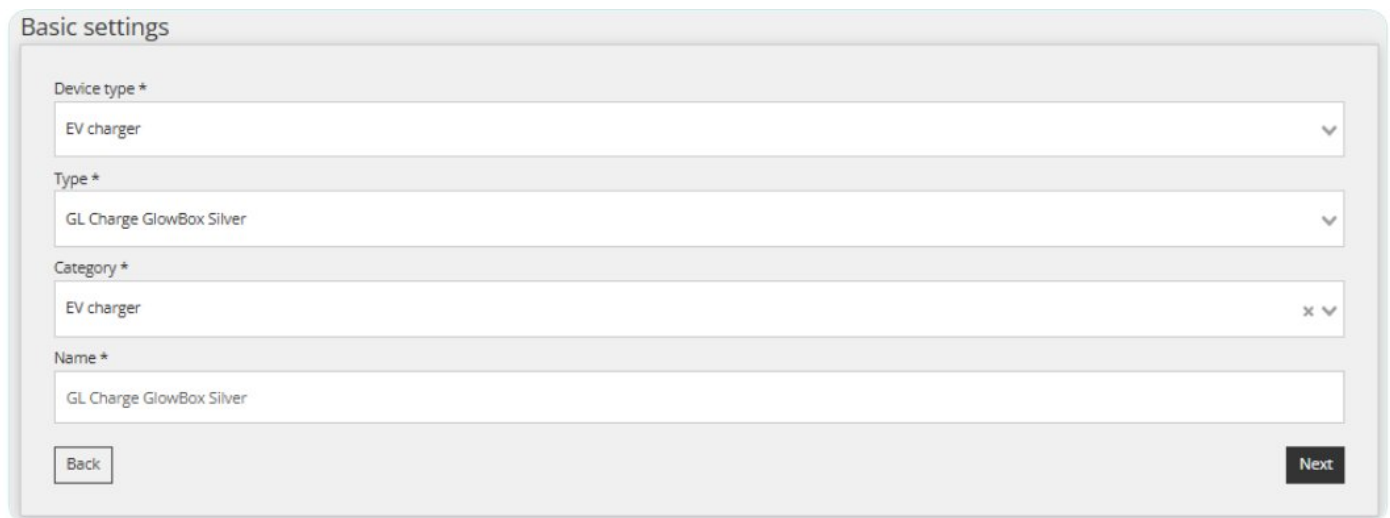
Profile

The Add device button

Text description of this image

In the first step (basic settings), select:

- Device type: **EV charger**
- Type: **GL Charge GlowBox Silver**
- Name: a name of your choice



Basic settings

Device type *

EV charger

Type *

GL Charge GlowBox Silver

Category *

EV charger

Name *

GL Charge GlowBox Silver

Back Next

Basic settings: device type, type and name

Text description of this image

4.2 Communication settings

Enter the parameters of the Modbus RTU communication channel. The slave address (Modbus unit ID) depends on the DIP switch settings, see [Point 2](#) (Point 2.2).

PARAMETER	VALUE
Connection	Local serial port
Port	Port 1
Baud rate	9600 bits/s
Data bits	8
Stop bits	1
Parity	None
Modbus unit ID	1 (with DIP switches 5 and 6 OFF)

Communication channel and device configuration

Connection *

Local serial port

Port *

Port 1

Baud rate *

9600 bits/s

Data bits *

8

Stop bits *

1

Parity *

None

Modbus unit ID *

1

Back

Test communication

Next

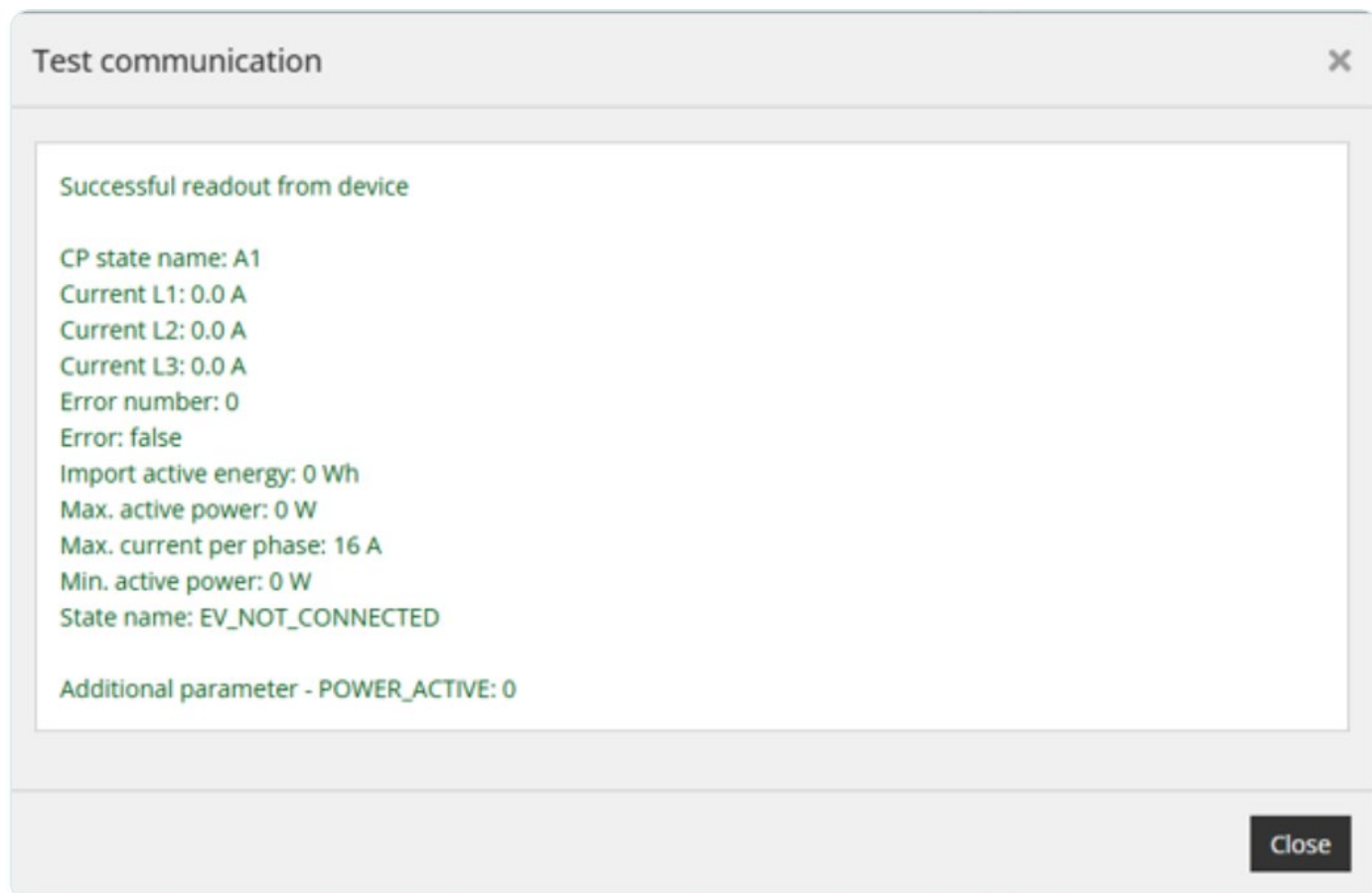
Communication settings

Text description of this image

4.3 Test communication

Click **Test communication** at the lower right, below the communication channel fields. It checks that Modbus RTU communication is established and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.

Communication response:



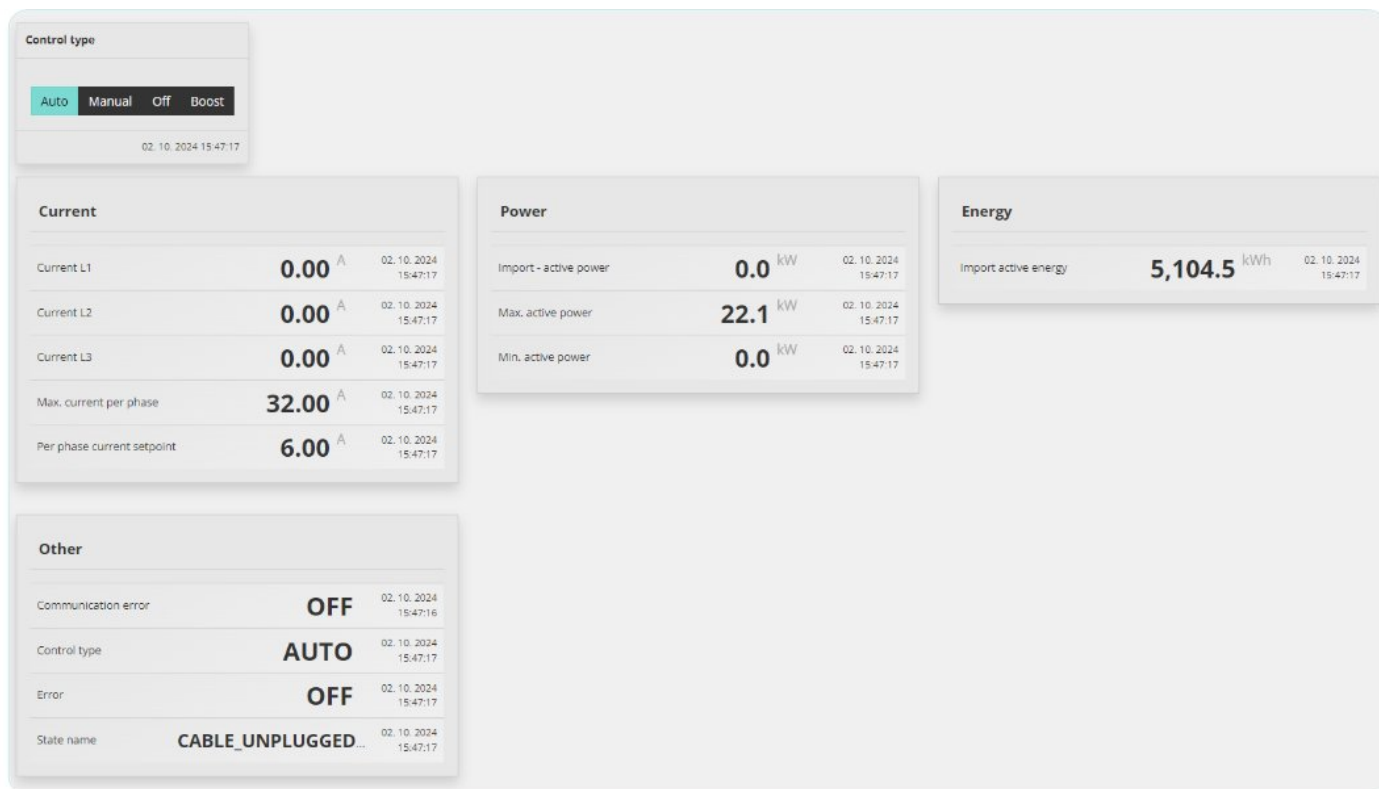
Result of the communication test

Text description of this image

5 Check the readings

5.1 Last measurements

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



Readings from the device

Text description of this image

Once the device is added in the Configurator, you can monitor it in the [Reduxi cloud application](#).

5.2 Use the charger in a strategy

To reduce energy costs with dynamic prices and dynamic tariffs, define a strategy as described in [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Point 1): Have the GlowBox, the Reduxi Controller and the cable ready.

GlowBox (Point 2): Connect the Modbus RTU cable. Set DIP switches 1–4 to OFF and 5–6 for the slave address.

Add to Reduxi (Points 3–4): Log in to the Reduxi web interface. Add an EV charger of type GL Charge GlowBox Silver, enter the serial port parameters and run Test communication.

Go live (Point 5): Check Last measurement and define a strategy.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check that the Modbus unit ID matches the DIP switches 5 and 6 (see Point 2.2) and that the wiring matches the picture in Point 2.1.
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:



GlowBox product page

Manufacturer page of the GlowBox charger.



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