

How to connect Iskra WM3x6 energy meter with Reduxi controller

Connect the Iskra WM3x6 three-phase energy meter to the Reduxi Controller via Modbus RTU (RS485).



🔌 Iskra WM3x6 energy meter · Reduxi Controller

🌐 Modbus RTU (RS485 option)

📡 Modbus unit ID: normally 1



Iskra WM3x6 energy meter

Text description of this image

IN THIS ARTICLE

1. Technical documentation
2. Required equipment
3. Connect the meter to the Reduxi Controller
4. Set the communication parameters on the meter
5. Log in to the Reduxi web interface
 - Via the Reduxi app
 - Via a web browser
6. Add the meter to Reduxi
 - Basic settings
 - Communication settings
 - Test communication
7. Check the readings
8. Summary
9. Common issues
10. Related articles

1 Technical documentation

Instructions for connecting and configuring the meter are on the manufacturer web page:

<https://www.iskra.eu/en/Smart-energy-meters/energy-meter-WM3/>

- [Iskra WM3x6 product page](#) – Variants, interfaces and downloads
- [Users manual WM3x6](#) – Connection, communication settings and Modbus registers
- [Data sheet WM3x6](#) – Technical data and ordering codes

2 Required equipment

You need the following components:

- ☐ Reduxi Controller
- ☐ Iskra WM3-6 or WM3M6 energy meter with the RS485 option
- ☐ RS485 cable between the meter and the Reduxi Controller
- ☐ Laptop or tablet with internet access to configure the device in Reduxi



RS485 option

RS485 is an optional extension. The meter has two terminals for optional modules, so only one extension (RS485, M-Bus, tariff input or pulse output) can be fitted. The label on the side of the meter shows which module is installed. Ordering codes with RS485: **022433920003** (WM3-6 230DB) and **022433920103** (WM3M6 230DB, MID).

3 Connect the meter to the Reduxi Controller

3.1 RS485 terminals on the meter

The RS485 line is on the auxiliary terminals **15** and **16**, labelled **B** and **A** in the manufacturer documentation. The terminals take 1 to 2.5 mm² wire (M3 screws, 0.7 Nm recommended torque). The manufacturer recommends a ferrite bead with two turns on the RS485 line.

4 Set the communication parameters on the meter

The meter uses Modbus RTU on RS485. The factory settings from the manufacturer documentation:

PARAMETER	FACTORY SETTING
Protocol	Modbus RTU
Frame	8, N, 2 (8 data bits, no parity, 2 stop bits)
Modbus address	33
Speed	1200 to 19200 bit/s

Change the settings with the Iskra MiQen software (serial connection or WM-USB adapter). You can also set the address on the meter: hold the front button for more than 6 seconds. The meter then answers on address 149 until you change the address.



Several meters on one line

Each meter on the same RS485 line needs its own unique Modbus address.

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

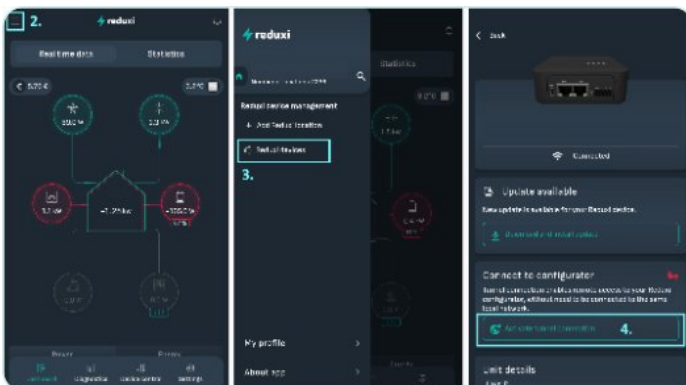
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

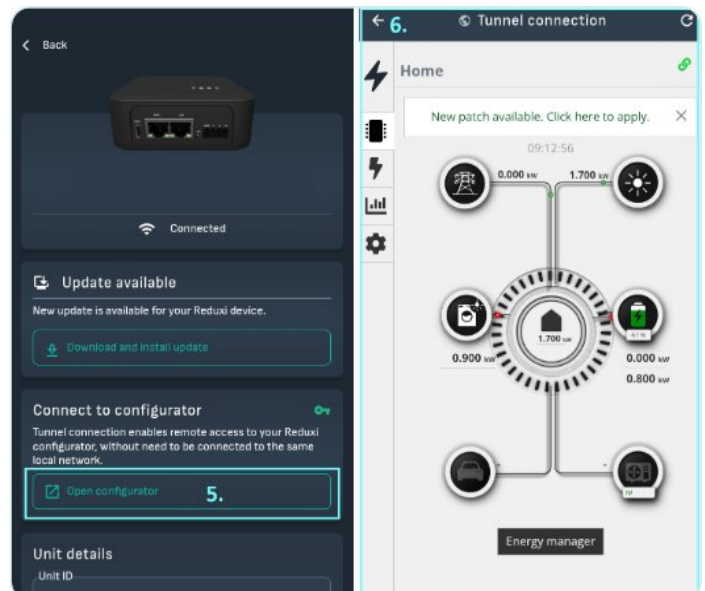
Tap **Open configurator**. The Reduxi web interface opens.



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)

2. Text description of this image

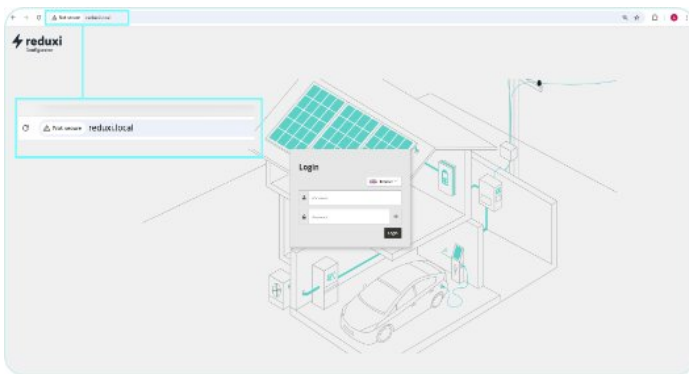
5.2 Via a web browser

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**.

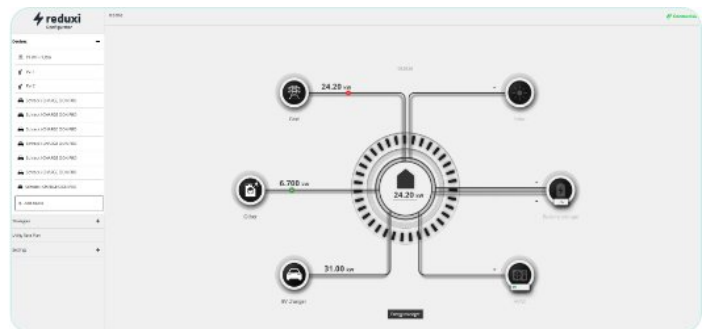
2 Log in

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 meter to Reduxi

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

6.1 Basic settings

Log in to the **Reduxi Configurator via the browser** (see [Point 5](#)), click **+ Add device** and enter the basic settings of the meter.

6.2 Communication settings

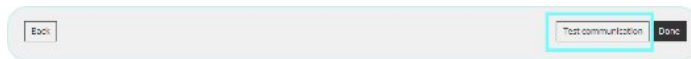
Select the communication channel and enter the device configuration:

PARAMETER	VALUE
Modbus unit ID	Normally <code>1</code> is used. The value must match the Modbus address set on the meter.

Then enter and choose the advanced settings.

6.3 Test communication

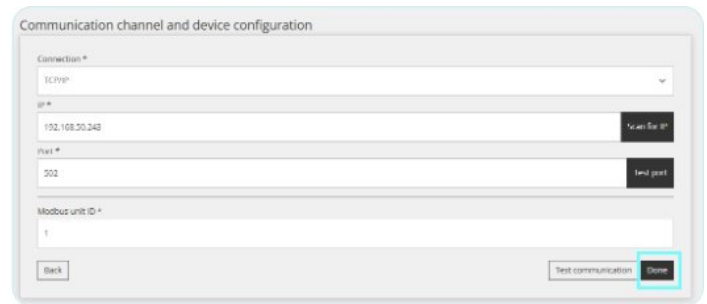
Click **Test communication** at the bottom of the wizard. It reads the Iskra WM3x6 once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



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

7 Check the readings

7.1 Last measurements

After communication is established, check the values under **Devices – Iskra WM3x6** in the Reduxi Configurator.

✓ Summary

Preparation (Points 1–2): Open the manufacturer documentation. Prepare the controller, a meter with the RS485 option, the RS485 cable and a laptop or tablet.

Iskra WM3x6 (Points 3–4): Connect the RS485 terminals 15 and 16. Check address, speed and frame on the meter.

Add to Reduxi (Points 5–6): Log in to the Reduxi Configurator. Add the device, enter the Modbus unit ID and test communication.

Go live (Point 7): Check the last measurements under Devices.

→ Common issues

ISSUE	SOLUTION
No data from the meter	Check that the meter has the RS485 option (label on the side of the meter). The Modbus unit ID and communication settings in Reduxi must match the meter.
Several meters on one RS485 line	Each meter needs a unique Modbus address.
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:



Iskra WM3x6 product page

Variants, interfaces and downloads 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