

How to connect Iskra IE38Mx smart energy meter with Reduxi controller

Connect the Iskra IE38Mx smart energy meter to the Reduxi Controller via Modbus RTU (RS485).

🔌 Iskra IE38Mx energy meter · Reduxi Controller

🌐 Modbus RTU (RS485), IE38MD variant

🔢 Modbus unit ID: normally 1



Iskra IE38Mx 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. Check the communication settings 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_IE38Mx_1/

- [Iskra IE38Mx product page](#) – Variants IE38MS, IE38MM, IE38MD and IE38MF, interfaces and downloads
- [Users manual IE38Mx](#) – Connection, communication settings and Modbus communication protocol (Appendix A)
- [Data sheet IE38Mx](#) – Technical data
- [Smart Meter IE38Mx \(brochure\)](#) – Product overview

2 Required equipment

You need the following components:

- ☐ Reduxi Controller
- ☐ Iskra IE38MD energy meter (the IE38Mx variant with the Modbus RS485 interface)
- ☐ RS485 cable between the meter and the Reduxi Controller
- ☐ Laptop or tablet with internet access to configure the device in Reduxi



Variants

Only the **IE38MD** has the Modbus RS485 interface. The IE38MS has IR, NFC and SO pulse outputs. The IE38MM has M-Bus.

3 Connect the meter to the Reduxi Controller

3.1 RS485 terminals on the meter

The RS485 connection on the IE38MD is labelled **A, SC** (shield) and **B** in the manufacturer manual. The connection diagram is in the users manual (see [Point 1](#)).

4 Check the communication settings on the meter

The IE38MD uses Modbus RTU on RS485. The factory settings from the manufacturer manual:

PARAMETER	FACTORY SETTING
Protocol	Modbus RTU
Speed	115200 bit/s (1200 to 115200 bit/s possible)
Frame	8, N, 2 (8 data bits, no parity, 2 stop bits)

You can change the address, speed, parity and stop bits on the meter display (**Settings – Communication**) or with the Iskra MiQen software (version 2.1 or higher).



Several meters on one line

Each meter on the same RS485 line needs its own unique Modbus address. With MiQen, use **Scan the network** to find the devices and assign addresses.

5 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 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

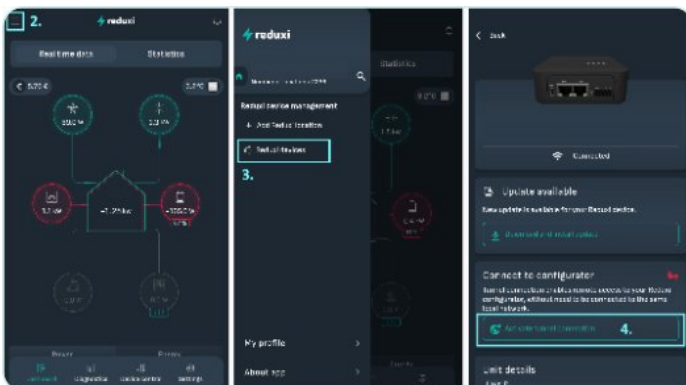
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

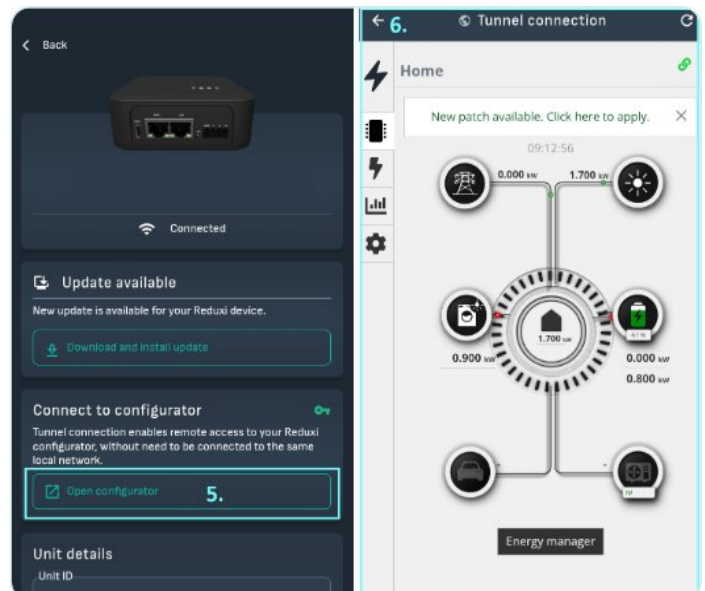
Tap **Open configurator**. The Reduxi web interface opens.



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

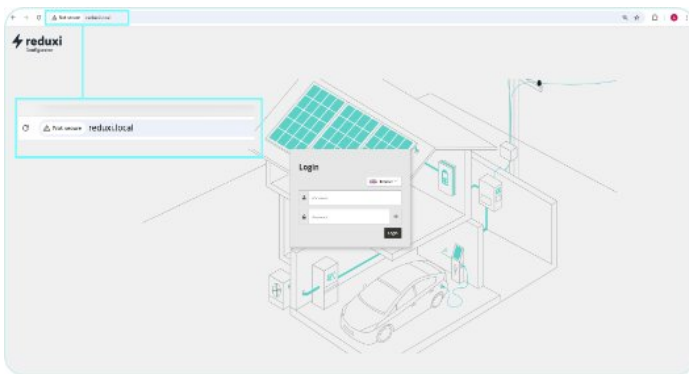
5.2 Via a web browser

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**.

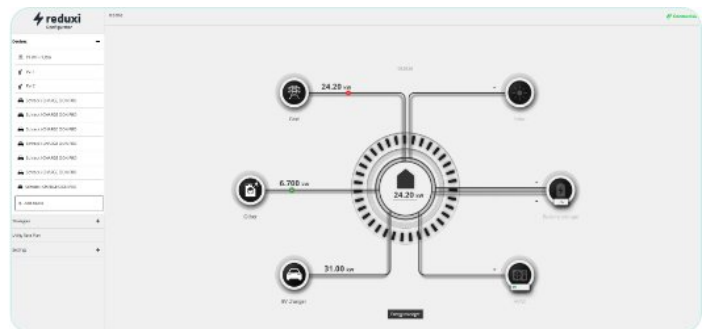
2 Log in

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

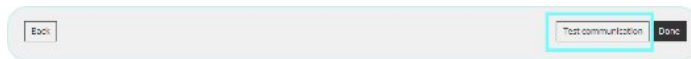
Select the communication channel and enter the device configuration:

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 IE38Mx 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 IE38Mx** in the Reduxi Configurator.

✓ Summary

Preparation (Points 1–2): Open the manufacturer documentation. Prepare the controller, the IE38MD meter, the RS485 cable and a laptop or tablet.

Iskra IE38MD (Points 3–4): Connect the RS485 terminals A and B. Check address, speed, parity and stop bits 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	The Modbus unit ID, speed, parity and stop bits in Reduxi must match the settings on the meter.
Several meters on one RS485 line	Each meter needs a unique Modbus address. Unconfigured meters share the factory address 33.
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 IE38Mx 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