

How to connect Socomec Diris A energy meter with Reduxi controller

Connect your Socomec DIRIS A energy meter to the Reduxi Controller via Modbus.

⚡ Socomec DIRIS A · Reduxi Controller

🌐 Modbus (RS485 or Ethernet)

🔢 Modbus unit ID 1 (normally)





Socomec DIRIS A-10 multifunction meter (distributor photo)

Text description of this image

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1 Technical documentation

Instructions for connecting and configuring the device are on the manufacturer web page.

- [Socomec resources](#) – Manufacturer web page with documents
- [DIRIS A-10: product page](#) – Product data and document list
- [DIRIS A-10, A-20, A-30, A-41: quick start guide \(PDF\)](#) – Multilingual quick start guide
- [DIRIS A-10: Modbus communication table](#) – Register tables of the meter

2 Required equipment

You need the following components:

- ☐ Reduxi Controller
- ☐ Socomec DIRIS A meter (A-10 RS485, A-20, A-30, A-40, A-41)
- ☐ RS485 cable between the meter and the Reduxi Controller, or an Ethernet cable for the DIRIS A-40 Ethernet
- ☐ Current transformers for the current inputs
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Prepare the Socomec DIRIS A meter

3.1 Technical data (DIRIS A-10 RS485)

COMMUNICATION
RS485, Modbus

SUPPLY VOLTAGE
110–277 V AC, 50/60
Hz

MEASUREMENT INPUTS
3 voltage inputs, 3
current inputs

FREQUENCY RANGE
45–65 Hz

DISPLAY
LCD with 5-key
keypad

3.2 Measurement inputs

The voltage inputs are labelled **V1**, **V2**, **V3** and **VN**. The current inputs are labelled **I1**, **I2** and **I3**, each with an **S1** and **S2** connection. Connect the meter as described in the quick start guide of the manufacturer (see [Point 1](#)).

3.3 Set the Modbus parameters on the meter

The communication parameters are set in the configuration menu of the meter. The menu entries are **CON Adr** (Modbus address), **CON bds** (baud rate), **CON PAr** (parity) and **CON StOP** (stop bit). Use the same values in the [Reduxi Configurator](#) (see [Point 5](#)).



Note

The menu entries are taken from the FENECON installation manual for the DIRIS A-10: docs.fenecon.de. Check them against the manual of your meter.

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 reduxि.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

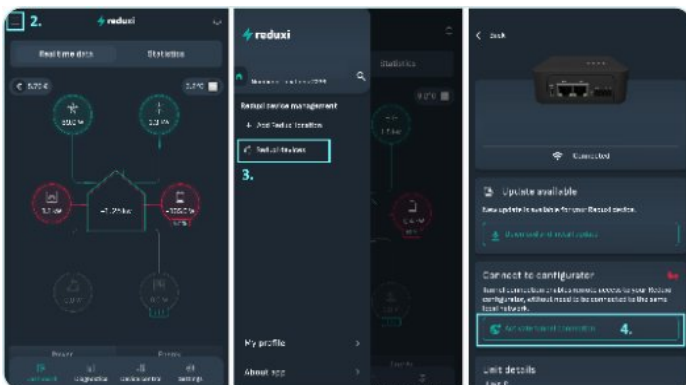
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

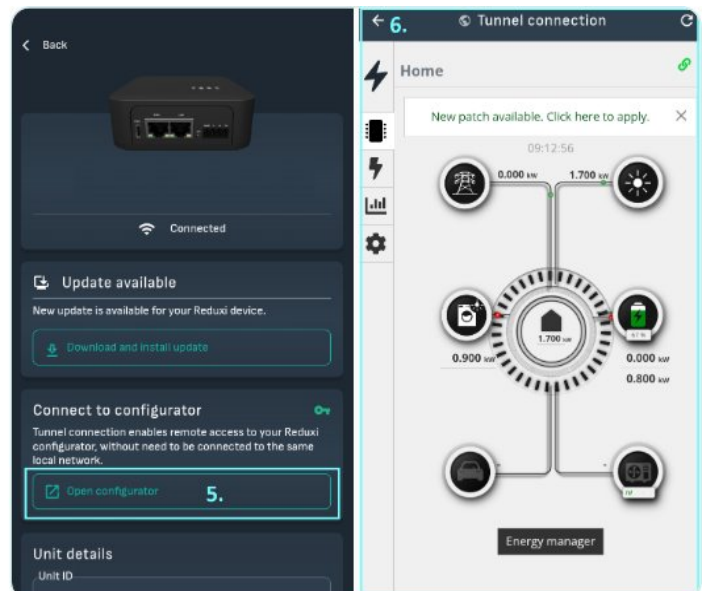
Tap **Open configurator**. The Reduxi web interface opens.



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)

2. Text description of this image

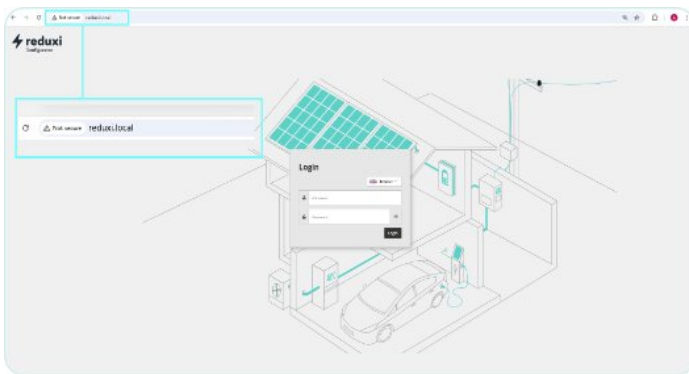
4.2 Via a web browser

1 Open the login page

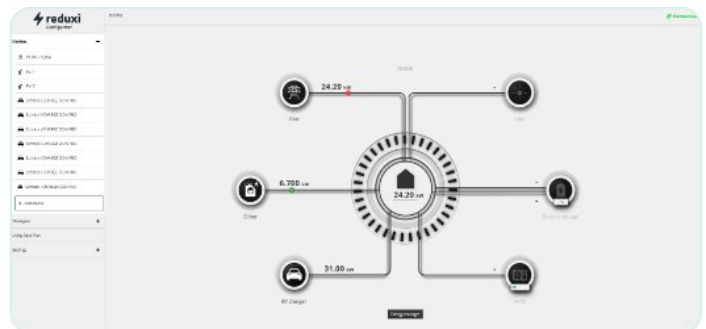
On a device in the same network, open a web browser and enter the controller's IP address or `http://reduxi.local`. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

2 Log in

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



Reduxi Controller login screen



Controller web interface after login

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Screenshot of the Reduxi Configurator web interface

5 Add the Socomec DIRIS A to Reduxi

Use these steps to add a new Socomec DIRIS A 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 Socomec Diris A, and enter a name of your choice. Then press **Next**.

5.2 Communication settings

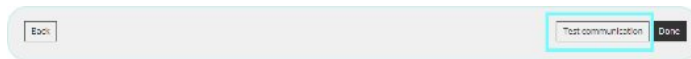
Select the communication channel. Enter the device configuration:

PARAMETER	VALUE
Connection	RS485 (Modbus). TCP/IP (Modbus) for the DIRIS A-40 Ethernet.
Modbus unit ID	Normally 1 is used.

Then enter and choose the advanced settings.

5.3 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Socomec DIRIS A 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

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices – Socomec Diris A** in the Reduxi Configurator as an additional test.

✓ Summary

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

Socomec DIRIS A (Point 3): Connect the meter and set its Modbus parameters.

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

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

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check that the Modbus unit ID in the Reduxi Configurator matches the address set on the meter. Normally 1 is used. Check that the serial parameters of the meter and the controller are identical.
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:



DIRIS A-10: product page

Product data and documents 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