

How to connect Circutor CVM-C10 energy meter with Reduxi controller

Connect your Circutor CVM-C10 power analyzer to the Reduxi Controller.

🔌 Circutor CVM-C10 · Reduxi Controller

🌐 Modbus (RS-485)  Modbus unit ID: normally 1

Circutor



Circutor CVM-C10 power analyzer (96 x 96 mm, panel mounted)

Text description of this image

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1 Technical documentation

Manufacturer documents and downloads for the Circutor CVM-C10:

- [Circutor downloads](#) – Instructions to connect and configure the device, as linked in the earlier version of this guide.
- [CVM-C10 product page \(CVM-C10-ITF-IN-485-IC2\)](#) – Product description, specifications and document list.
- [CVM-C10 datasheet](#) – Specifications, dimensions and communication interface.

2 Required equipment

- ☐ Circutor CVM-C10 power analyzer with RS-485 interface, installed by a qualified electrician
- ☐ RS-485 cable
- ☐ Reduxi Controller
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Connect and configure the meter

Find the instructions to connect and configure the meter in the documents of [Point 1](#).

3.1 Interface and protocol

The CVM-C10 communicates via an RS-485 interface. It supports the protocols Modbus/RTU and BACnet. Reduxi reads the meter via Modbus.



Terminals and wiring

The terminals differ between model variants. Use the connection diagram in the manual of your model.

3.2 Modbus settings on the meter

Set the Modbus parameters in the setup of the meter. The manual lists a baud rate of 9600 to 19200.

You need the Modbus unit ID of the meter in the Reduxi Configurator. Normally, 1 is used.

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 `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

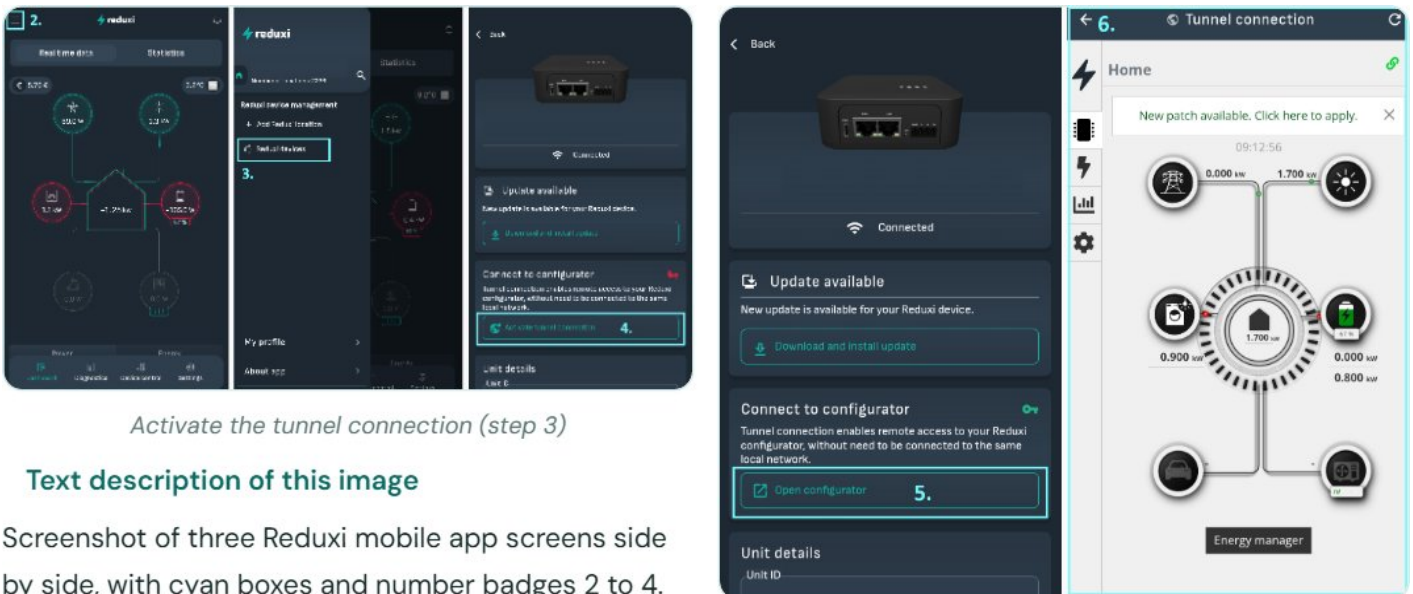
Activate the tunnel connection

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)

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

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

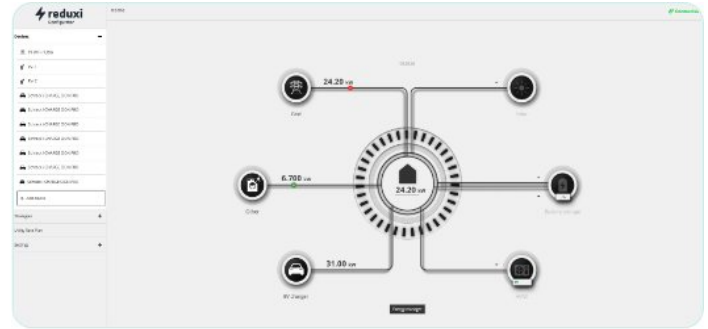
Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

5 Add the meter to Reduxi

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



Read only

In the List of supported devices, the Circutor CVM-C10 is listed with the protocol Modbus and with read access.

5.1 Basic settings

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

In the first step, enter the basic settings of the device. Then click **Next**.

5.2 Communication settings

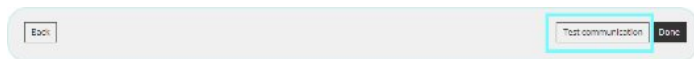
Select the communication channel. Then enter the device configuration:

PARAMETER	VALUE
Modbus unit ID	Normally 1

Then enter and choose the advanced settings. Serial parameters, if requested, must match the settings of the meter (see [Point 3](#)).

5.3 Test communication

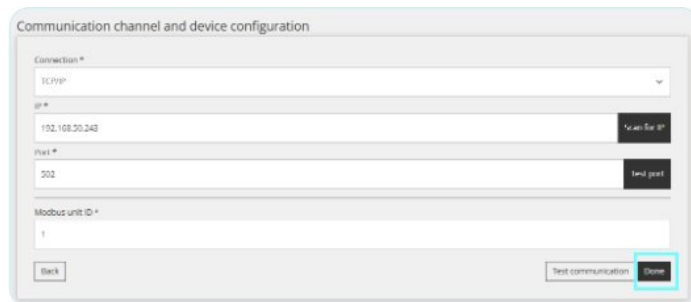
Click **Test communication** at the bottom of the wizard. It reads the Circutor CVM-C10 once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



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

Communication channel and device configuration

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices** in the Reduxi Configurator. Reduxi only reads the meter.

✓ Summary

Preparation (Points 1–2): Read the Circutor documents and prepare the equipment.

Circutor CVM–C10 (Point 3): Connect the meter via RS–485. Set the Modbus parameters and note the Modbus unit ID.

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

Go live (Point 6): Check the readings. Reduxi reads the meter.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check that the Modbus unit ID in Reduxi equals the Modbus address set on the meter. Check that the serial parameters match.
The meter does not respond on the RS-485 bus	Check the RS-485 cabling and the communication settings on the meter.
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:



Circutor CVM-C10 product page

Specifications and documents of the CVM-C10.



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