

Reduxi Gateway

Original text as published before the redesign of this article. Wording unchanged.

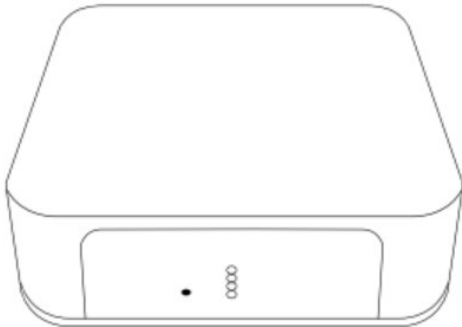
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REDUXI GATEWAY

User Manual

Version V3.0 09.2025

www.redux.eu



1. Introduction

The Reduxi Gateway is an extension unit of the Reduxi system that enables the conversion of RS485 serial signals to the TCP/IP internet protocol. It is intended for use in cases where the number of serial inputs (1x RS485) on the Reduxi Controller is insufficient for the user's needs regarding the connection of devices to RS485 ports. It also serves as an auxiliary device in situations where the distance between the device and the Reduxi Controller is too great for a direct cable connection to the RS485 ports.

The Reduxi Gateway is also used in cases where two relay outputs are required for device regulation, such as managing a heat pump via SmartGrid Ready (SG Ready) functionality.

Additionally, the Reduxi Gateway can serve as a measurement device for monitoring electrical currents. In this case, current clamps are connected to the current inputs of the Reduxi Gateway, enabling power data acquisition. The voltage data is then obtained directly from the Reduxi Controller.

2. Installation connection information

- Connect the AC-DC adapter to the Reduxi Gateway and then plug the adapter into the power outlet. The first LED light from the top should start to glow green.
- Use Reduxi mobile app to configure the gateway
- Alternatively, you can configure the gateway by following the steps below
 - Go to the network settings of your WiFi networks on your mobile device or computer and connect to the Gateway device access point.

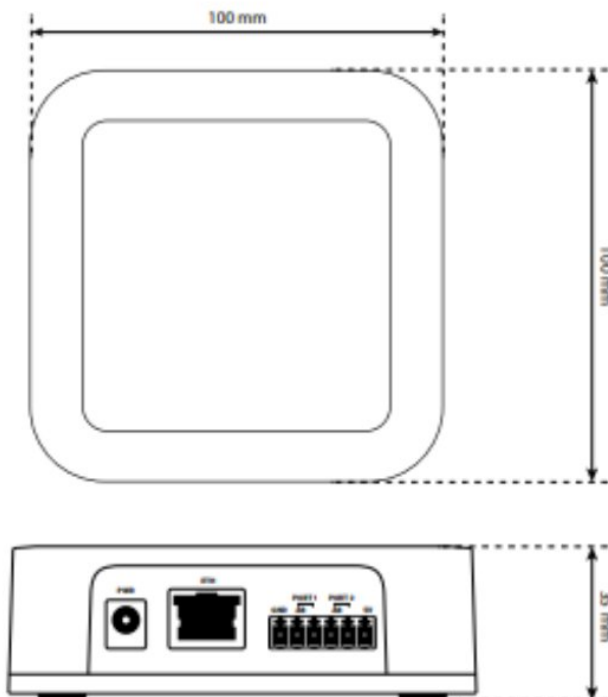
- If a pop-up window does not appear automatically, open a browser and go to <http://gateway.local>.
- Use the username “admin” and the password “admin” to log in.
- Set up the wired or wireless network and connect the Reduxi to your local network (it is recommended to set a static IP address).
- Click “save” and now connect your mobile phone or computer to the same wired or wireless local network that you previously connected the Reduxi Gateway to.
- The Reduxi controller should already be connected to the local internet network (Reduxi Controller).
- When connecting the current clamps the following order applies
 - L1: Red
 - L2: Green
 - L3: Yellow
- Follow the next sections regarding the connection of relay outputs and the installation of current sensors.
- For additional software configuration/installation, please visit the website with the latest documentation: <https://support.reduxi.eu>.

For software configuration/installation please refer to Reduxi Local online manual support.reduxi.eu.

3. Specifications

3.1. Dimension

- Desktop housing with the option for DIN rail IEC/EN 60715 TH35 attachment.
- Dimensions: 100 x 100 x 35 mm.
- Ingress Protection: <IP20.
- Weight: 230g.



3.2. Technical data

POWER SUPPLY		
Supply voltage – DC Jack		12 – 24 V DC
Max current at 12 V DC		200 mA

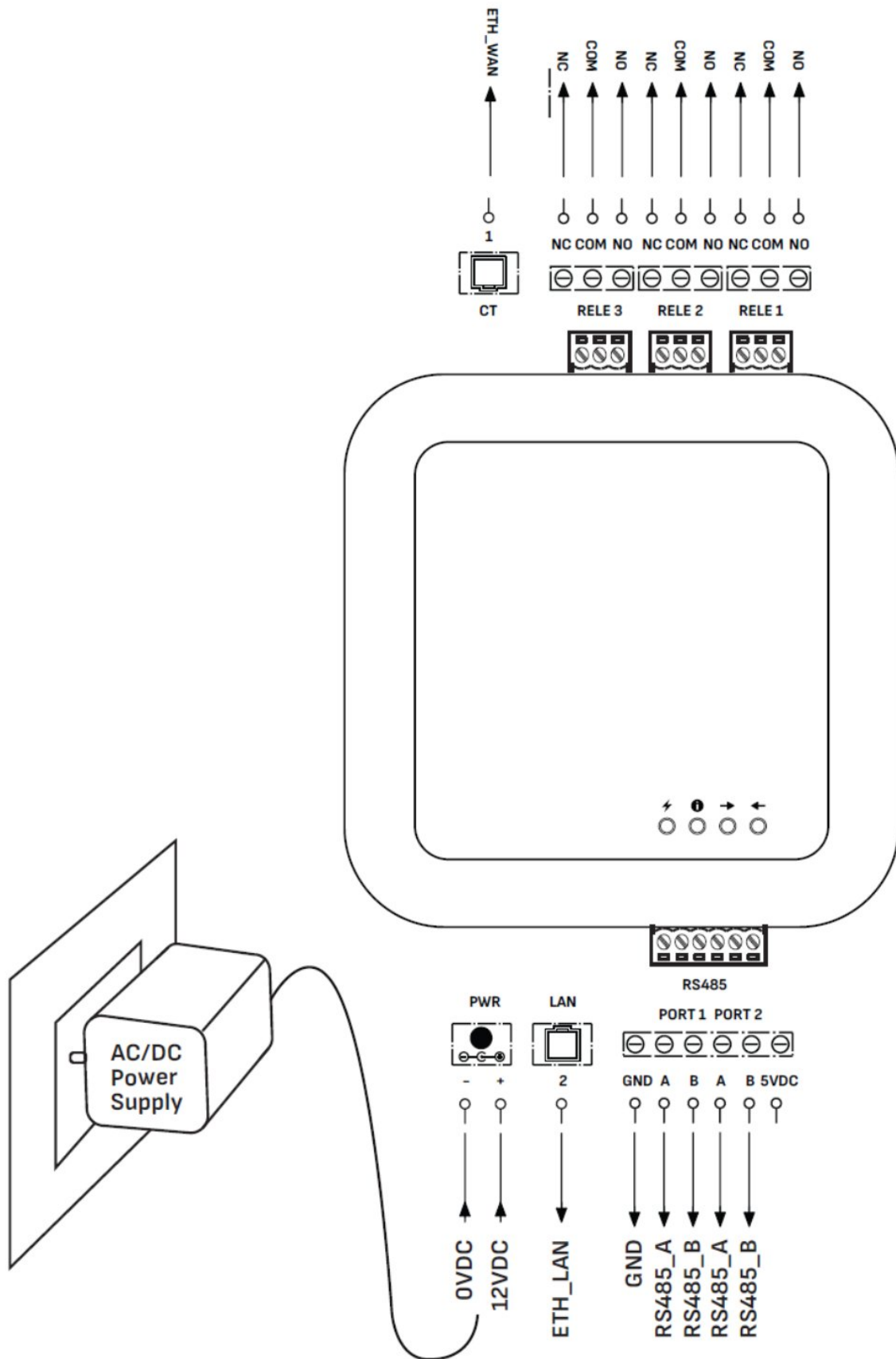
PINS		
Power supply		2-pin DC jack
Ethernet		RJ45 10/100 Mbps (half / full duplex)
RS485		2x 2-pin terminal block
Sensor's input current (version 1)		3x 3,5mm (CT1, CT2, CT3) 0-1V
Sensor's input current (version 2)		RJ12 connector for (CT1, CT2, CT3) 0-1V
Relay outputs (version 1)		2x DO(NO/COM/NC) - max. 5A
Relay outputs (version 2)		3x DO(NO/COM/NC) - max. 5A

CONNECTIVITY		
Ethernet		10/100 Mbps
Wi-Fi		IEEE 802.11 a/b/g/n/ac, 2.4/5GHz
RS485		2x 921600 BAUD half duplex

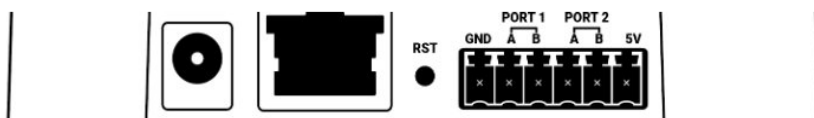
OTHER		
Operating temperature range		From 0°C to +40°C
Storage temperature range		From -10°C to +70°C
Relative humidity during operation		< 95% (non-condensing)
Ingress Protection		< IP20

3.3. Connection pinouts

3.3.1. Wiring diagram (version 2)



3.3.2. Reset button



With the following procedure, you can reset Reduxi Gateway to factory default:

- Press the needle and do not let go (continues pressing).
- Continue pressing the reset needle for more than 7 seconds until all LED lights turn on.
- When the LED lights turn on, release the button.
- Wait 30 seconds for Reduxi Gateway to reset everything to factory settings.

3.3.3. Power supply



3.3.4. Ethernet – RJ45 and RS485

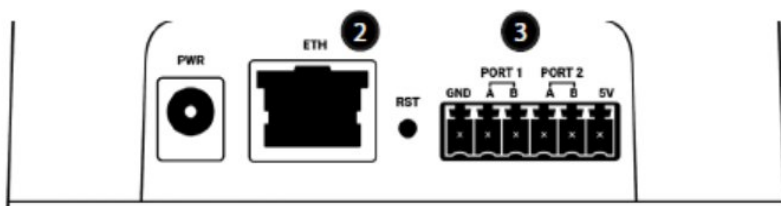


Figure 2: Ethernet port (marked as number 2) and RS485 communication ports (marked with number 3).

Ethernet port (marked as number 2):

PIN no.	Function	<ul style="list-style-type: none"> • Data rate: 10/100 Mbps. • Category: CAT5. • A green light indicates a connection. • The orange light indicates traffic. • Automatic crossover.
1	TX+	
2	TX-	
3	RX+	
6	RX-	

RS485 communication ports (marked with number 3):

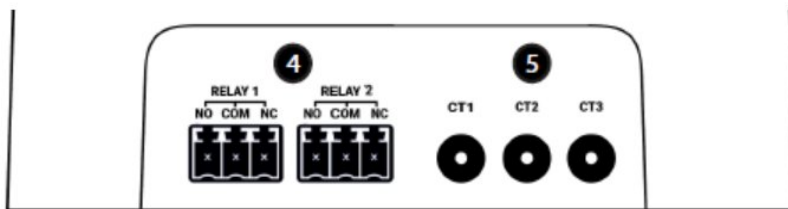
1. GND
2. A + (port 1)
3. B – (port 1)
4. A + (port 2)
5. B – (port 2)
6. +5V DC output

- Data transfer rate: 921600 BAUD.
- Half duplex.
- Voltage level: 0 V - 5 V.

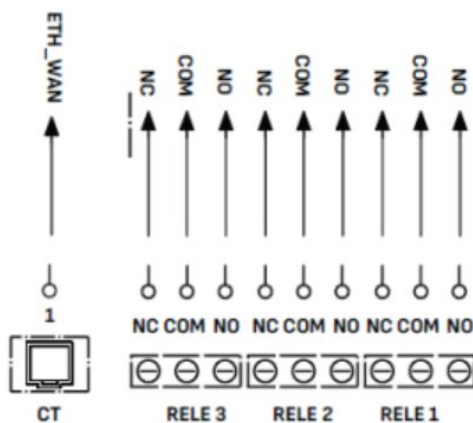
Additional communication modules for external devices are also available. Please contact us for the current list of modules and price list.

3.3.5. Communication interfaces

Version 1



Version 2



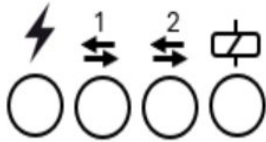
Relay output (marked with number 4):

- max. 5AAC/DC

Current sensor inputs (marked with number 5):

- 3x3.5mm(I1, I2, I3) - 0-1V (version 1)
- 1x RJ45 - 0-1V (version 2)

3.3.5. LED Indicator Lights



First LED light:

- green: power is ON.
- blue: internet connection is active.
- red: error.
- white: update/reset

Second LED light:

- green flashing: reading PORT1.
- blue flashing: writing PORT1.

Third LED light:

- green flashing: reading PORT2.
- blue flashing: writing PORT2.
- yellow: MODUS communication.

Fourth LED light:

- green: relay 1 ON.
 - blue: relay 2 ON.
 - turki: relay 1 and relay 2 ON.
-

4. General instructions for use

- **By using this device you accept Privacy policy and Terms and conditions**
- **Read and retain** these instructions for future reference. Adhere to all warnings and guidelines.
- **Placement:** Ensure the product is placed on a stable, non-vibrating surface.
- **Unpacking:** Remove all packaging materials before connecting the product to the power supply.
- **Ventilation:** Keep the ventilation slots unobstructed; do not place items on the product.
- **Moisture and Liquids:** Protect the product from exposure to liquids, rain, or moisture.
- **Cleaning:** Always unplug the product before cleaning. Use only a soft, dry cloth; avoid liquid or spray cleaners.
- **Openings:** Do not insert objects into any openings.
- **Repairs and Modifications:** Do not attempt to open or repair the product yourself, as this will void your warranty. Only qualified service technicians should perform repairs.
- **Relocation:** Disconnect the product from the power supply before moving it.
- **Labels:** Keep all original labels intact and do not remove them from the product.
- **Heat Sources:** Avoid installing the product near heat sources such as radiators, heaters, or other appliances that generate heat.
- **Power Cable:** Install the power cable securely and ensure it is not a tripping hazard or exposed to potential damage from objects that could pinch or twist it.
- **Accessories:** Use only accessories or additional equipment recommended by the manufacturer.
- **Unplugging:** Disconnect the product from the power source during electrical storms or if it will not be used for an extended period.
- **Voltage Requirements:** Connect the product only to a power outlet that matches the voltage requirements specified in these instructions.
- **Power Access:** Ensure that the power input on the device is always accessible and functional.
- **Electrical Load:** Do not overload electrical sockets, extension cords, or circuit breaker panels.

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Document

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