

Reduxi Converter for Iskraemeco AM550 meter

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

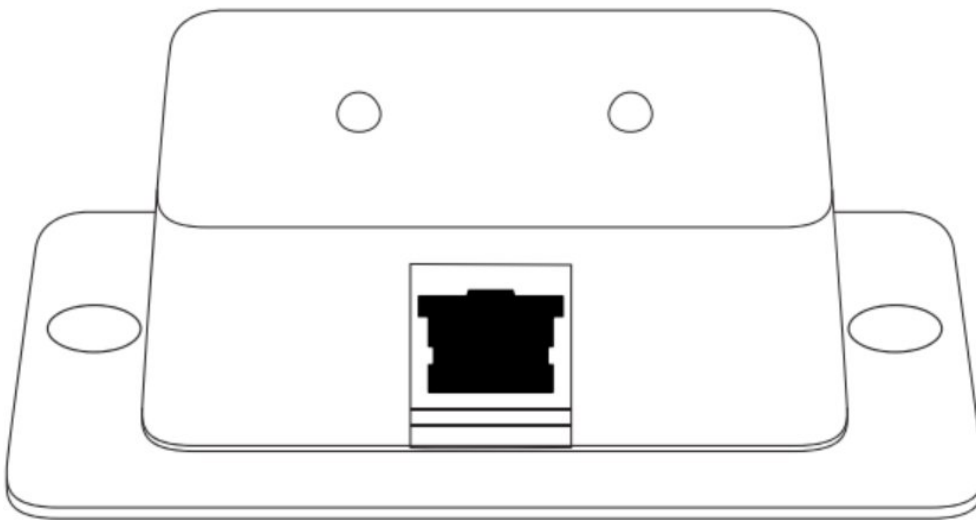
Archived: 28 October 2026

1. Introduction

Welcome to the world of Reduxi which allows you to take control of energy costs and efficient use of electricity for sustainable development. Main features:

- Peak power management,
- Solar power plant production management,
- Optimisation of electricity consumption.

Accurate measurement and energy consumption analysis are the first steps towards energy reduction. To achieve this goal, you need the right technology. Reduxi Converter enables the connection of AM550 meter to Reduxi system via Reduxi Controller or Reduxi Gateway device.



2. Connection instructions

For the first configuration, you need to connect Reduxi Converter to Reduxi Controller or Reduxi Gateway to RS485 port. For the connection, we recommend using a double-insulated twisted-pair wire with a braid (shielded cable).

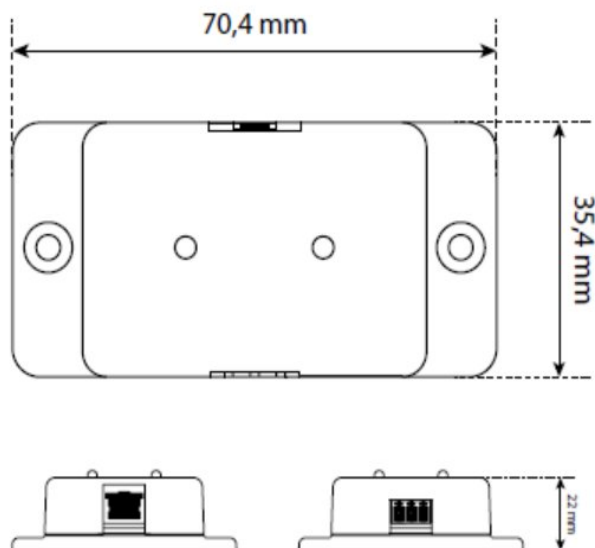
- The double-insulated twisted-pair wire must be connected in the following way: the first wire on converter A is connected to Reduxi wire A. Connect the other wire on inverter B to Reduxi wire B. Connect the braided cable (shielded cable) to GND.
- Connect Iskra AM550 meter with RJ12 cable to Reduxi Converter (make sure the order of the wires in RJ12 cable matches on both sides of RJ12 cable).
- The green LED from above should start to glow.

For software configuration/installation, please visit the website where you find the latest documentation:

3. Specifications

3.1. Dimensions

- Table housing that can be attached.
- Dimensions: 35.4 x 70.4 x 22 mm.
- Protection: <IP20.
- Weight: 30 g.



Length: 35.4 mm	Width: 70.4 mm	Height: 22 mm
-----------------	----------------	---------------

3.2. Technical data

POWER SUPPLY	
Power supply	AM550 meter

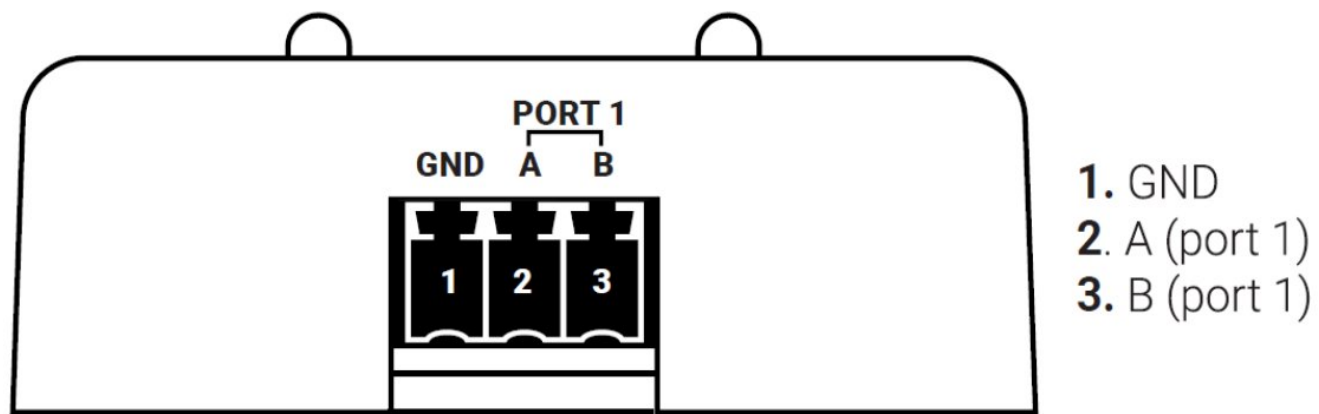
PINS	
AM550 meter	RJ12
RS485	1x 3-pin connector

CONNECTIVITY	
RS485	Depending on the settings on the meter (example: 1x 115200 BAUD half duplex)
AM550 meter	P1 port TTL level

OTHERS	
Operating temperature range	From 0°C to +40°C
Storage temperature range	From -10°C to +70°C
Relative humidity during operation	< 95% (doesn't condense)
Protection	< IP20

3.3. Connection plugs

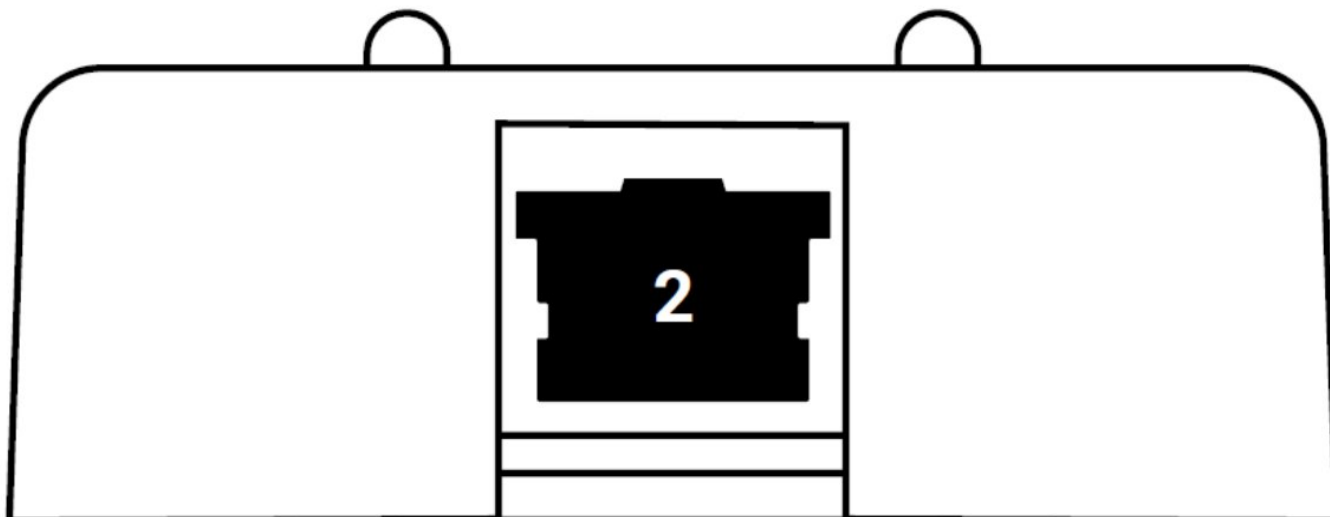
3.3.1. RS485 plugs



Picture 1: Communication plugs RS485 (marked with number 1).

- Maximum data transfer rate: 921600 BAUD.
- Half duplex.
- Voltage level: 0 V – 5 V.

3.3.2. RJ12 plugs



Picture 2: Communication plugs RJ12 (marked with number 2).

1. +5V DC power supply.
 2. Data line demand – output.
 3. Data GND.
 4. NC – not connected.
 5. Data line – input.
 6. GND power supply.
- Communication via Iskra P1 output.
 - Voltage level: 0 V – 5 V.

3.3.3. LED indicator lights

	Green LED: power supply is active.
	Yellow LED: flashing during data transfer.

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.

Producer

Name: AMIBIT d.o.o.

Address: Šaleška 2 a, 3320 Velenje

Identification Number: 6930808000

TAX ID: SI51315831

Email: info@reduxi.eu

Phone: +386 (0)3 777 01 40

Document

Purpose: Reduxi Converter for AM550 meter

Version: V1.0 12.2022

Copyright

© 2022 AMIBIT d.o.o.

All rights reserved. No part of this document may be reproduced, stored on a storage and retrieval system or in any other form, electronic, electrostatic, magnetic tape, photocopying or otherwise without the prior written permission of AMIBIT d.o.o.