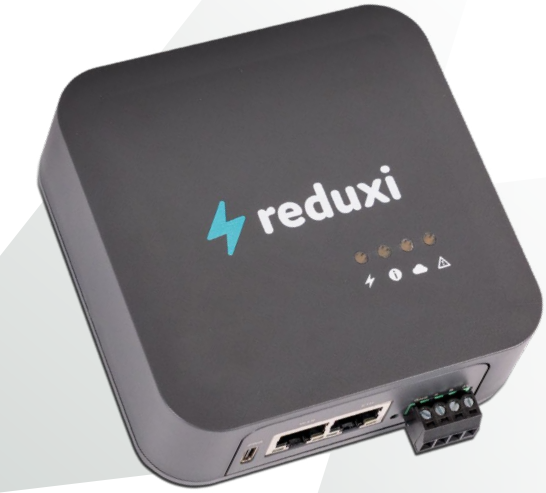
reduxi
AI Electricity Control

# Reduxi Controller AI Energy Management




Reduxi is an innovative energy management system designed to optimize electricity consumption, production, and storage for residential and industrial users.

Using AI algorithms, the system provides real-time adjustments to reduce costs, enhance energy efficiency, and increase self-sufficiency, making it an ideal solution for those looking to align their energy practices with sustainability goals. Its intuitive cloud-based platform offers users complete control and insights into their energy systems, driving smarter decisions and long-term savings.

**Connect Reduxi to:**

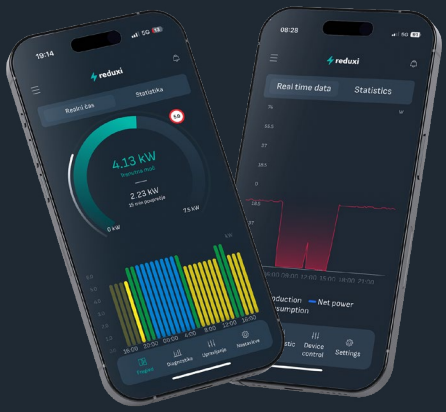
- Heat Pump
- Solar Power
- Electricity Meter
- EV Chargers
- Battery Storage

# Reduxi System

The Reduxi System, available via web and mobile app, delivers effortless real-time monitoring with updates every second and periodic summaries every minute, ensuring you always have the latest insights into your energy system.

Download on the App Store

GET IT ON Google Play

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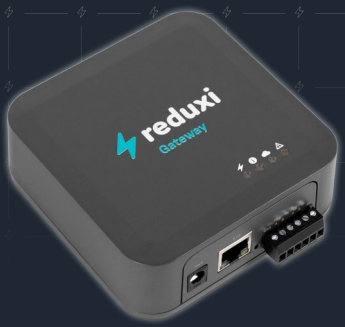
# Reduxi Gateway

Reduxi Gateway is a flexible extension for enhanced system integration.
It's a versatile module that expands the functionality of the Reduxi system with:

- Smart Heat Pump Control: Manages heat pumps via SG Ready contacts with two programmable relay outputs for flexible configurations.
- Power Monitoring: Enables precise power data acquisition using current clamps for real-time electrical current monitoring.
- Protocol Conversion: Bridges RS485 serial communication with TCP/IP for seamless system integration.
- Extended Connectivity: Adds extra RS485 inputs when the Reduxi Controller's capacity is insufficient.
- Distance Bridging: Ensures reliable RS485 communication over long distances.




Compact and multifunctional, the Reduxi Gateway is essential for optimizing system performance and connectivity.

| | |
|---|---|
| **HOUSING** | |
| Material | Compact plastic housing with the option for DIN rail IEC/EN 60715 TH35 attachment. |
| Dimensions | 100 x 100 x 35 mm |
| Ingress Protection | <IP20 |
| Weight | 230 g |
| **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 | 2× 2-pin terminal block |
| Sensor's input current | 3× 3.5 mm (CT1, CT2, CT3) 0—1V |
| Relay outputs | 2× DO (NO/COM/NC) — max. 5A |
| **CONNECTIVITY** | |
| Ethernet | 10/100 Mbps |
| RS485 | 2× 921600 BAUD half duplex |
| Wi-Fi | IEEE 802.11 a/b/g/n/ac, 2.4/5 GHz |
| **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) |