

REDUXI CONTROLLER

Reduxi Controller is the heart of your smart energy management system (EMS). It's the core component of the Reduxi ecosystem, offering robust functionality to optimize energy management and maximize efficiency. Its advanced capabilities include:

- **Centralized Energy Management:** Seamlessly connects solar panels, energy storage, heat pumps, EV chargers, and more to streamline energy production and consumption.
- **Smart Device Integration:** Communicates with devices using industry-standard protocols (e.g., Modbus, DLMS, OCPP) for effortless control and compatibility.
- **Dynamic Tariff Optimization:** Leverages real-time market data to reduce energy costs through automated load shifting and peak management.
- **High-Speed Data Processing:** Provides second-by-second data acquisition and control for precise and responsive system operations.
- **Plug & Play Setup:** Simple and user-friendly installation with intuitive configuration tools, enabling fast deployment without technical expertise.
- **Scalable Design:** Supports an unlimited number of devices for versatile use in residential, commercial, or industrial environments.



Reliable, efficient, and highly adaptable, the Reduxi Controller empowers users to achieve energy self-sufficiency and cost savings while staying connected to the future of energy management.

	REDUXI CONTROLLER
Housing	Compact plastic housing with the option for DIN rail IEC/EN 60715 TH35 attachment.
Dimensions	150 x 100 x 30 mm
Ingress Protection	<IP20
Weight	230g
POWER SUPPLY	
Supply voltage – DC Jack	12 – 24 V DC
Average power consumption at 12 V DC	250 mA
Supply voltage - PoE	48 V
PoE Type	IEEE 802.3 at Type 1
PINS	
Power supply	2-pin DC jack
Ethernet	RJ45 10/100 Mbps (half / full duplex)
RS485	2x 2-pin terminal block
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

