

ADL200N/ADL200M Single-Phase RS485 Energy Meter



Product Overview

The ADL200N/ADL200M Single-Phase RS485 Energy Meter provides circuit-level electrical monitoring for commercial buildings, industrial equipment and energy management applications.

It measures electrical parameters and energy consumption at individual circuits while communicating data via RS485 Modbus RTU to PLCs, HMIs, SCADA, BMS and cloud monitoring platforms. Its compact DIN-rail design makes it ideal for switchboards, control panels and OEM equipment.

Why Choose ADL200N/ADL200M ?

Traditional Monitoring	ADL200N/ADL200M
Building-wide energy only	Circuit-level monitoring
Limited visibility	Real-time electrical data
Manual analysis	PLC & SCADA integration
Difficult fault detection	Supports energy optimisation
Basic energy reporting	Actionable operational insights

Key Features

- Single-phase energy monitoring
- RS485 Modbus RTU communication
- Voltage, current & frequency measurement
- Active, reactive & apparent power
- Forward & reverse energy measurement
- External CT compatibility
- DIN-rail mounting
- LCD display
- PLC, SCADA & BMS integration
- RCM-compatible models available



Key Specifications

Parameter	Specification
Electrical Network	Single-phase
Nominal Voltage	230 V AC
Communication	RS485 Modbus RTU
Modbus Address	1-247
Baud Rate	1200-38,400 bps
Installation	DIN Rail
Energy Measurement	Forward & Reverse Active / Reactive Energy
Current Measurement	External CT Options

Applications

Ideal for monitoring:

- Pumps & water systems
- Industrial machinery
- Commercial buildings
- Lighting & HVAC circuits
- Solar & battery systems
- EV charging circuits
- Tenant energy monitoring
- Energy-efficiency projects

System Integration

Electrical Circuit



External CT & Energy Meter



RS485 Modbus RTU



PLC / HMI / SCADA / BMS



Dashboard or Cloud Platform

Key Benefits

- Improved energy visibility
- Real-time circuit monitoring
- Easy PLC & SCADA integration
- Better maintenance planning
- Supports energy optimisation
- Industrial IoT ready

Conclusion

The ADL200N/ADL200M Single-Phase RS485 Energy Meter delivers accurate circuit-level energy monitoring with RS485 Modbus RTU communication for commercial and industrial applications.

Designed for seamless integration with automation and energy management systems, it provides the data needed to improve energy visibility, operational efficiency and informed decision-making.

