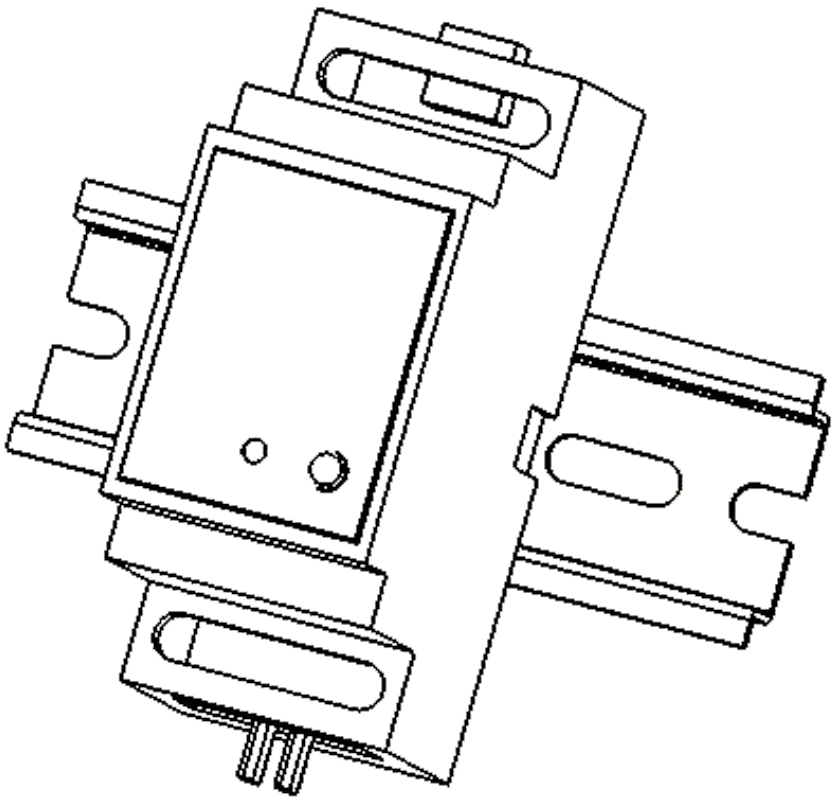
User Manual

SM-200

Din rail Modbus RTU LoRaWAN

Gateway for DDS661 Energy Meter



Included items:

- 1 x SM-200 Device with unique credentials
- 1 x Twisted Cable

1. Overview:

This device is a lorawan gateway device that is pre-configured to work with DDS661 power monitoring device. The device works with a mobile app and other integrations that can be accessed by downloading the app and scanning the unique label on the device. The device works on private and public lorawan networks (e.g. Helium). The device reads the total power consumed through the mentioned energy monitoring device. Please follow the instructions carefully.

2. Safety instructions:

Information for your own safety

Qualified personnel
Commissioning and operation must be performed only by qualified personnel—those authorized to install and wire electrical devices per local safety standards.

Use for the intended purpose
This device is for the applications described in the catalog/user manual and must be used only with recommended components.

Proper handling
Correct transport, storage, installation, and operation are critical for safe functioning. Electrical equipment may carry dangerous voltages. Improper handling may cause injury or damage.

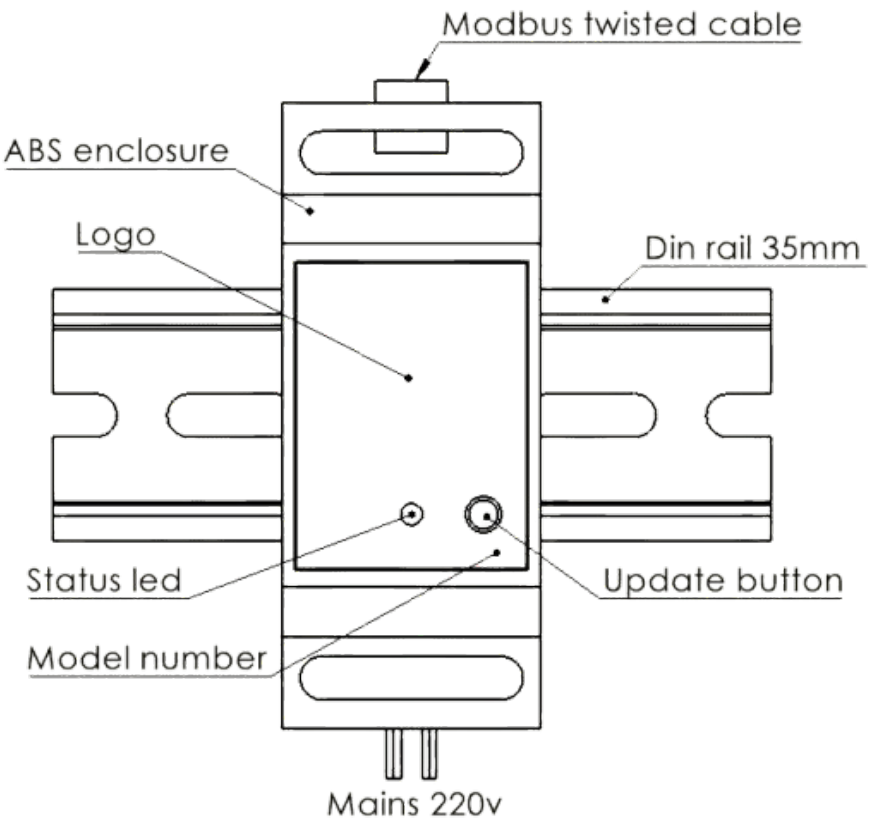
- Use only insulated tools.
- Do not connect or touch while live.
- Keep in dry environments only.
- Do not mount in explosive or dusty areas.
- Verify the connection of the AC cable before starting.

- Avoid contact with bare hands or metal tools.
- Do not break seals or open the front cover.
- Avoid drops or physical shocks.

3. Technical Specifications:

- **Input power:** 220V AC 50/60Hz
- **Frequency:** 863–870MHz ISM band
- **Antenna gain:** 3dBi
- **Max radiated power:** 25mW
- **Operating temp.:** –20°C to +60°C
- **Storage temp.:** –30°C to +70°C
- **Humidity range:** 0–75
- **Dimensions:** 92×31.5×58.5mm
- **Enclosure:** ABS
- **Weight:** 81g
- **Certifications:** CE, RoHS

4. Installation:



Installation Safety:

Warning: Risk of electrocution



- Turn off mains breaker before installation.

- Use a properly rated voltage tester to confirm power is off.
- Do not work with live wires.
- Do not touch exposed leads.
- Do not open the device enclosure.
- Install only by a qualified electrician.
- Place in a dry, ventilated area.
- Use a protection box in dusty or hazardous locations.
- Use surge protection in areas prone to electrical noise.
- Follow the wiring diagram carefully.
- Avoid metallic enclosures unless using an external antenna.

Tools Needed:

- Flathead screwdriver
- Wire stripper (optional)
- Crimping tool (optional)

Step-by-Step Installation:

1. **Prepare the DIN Rail**
   Ensure it is mounted securely and according to the regulations.
2. **Attach the Device**
   Tilt top forward, hook to the rail, snap the bottom in place, check that it is secure.
3. **Connect Wiring**
   Strip 8–10mm insulation, crimp

terminals, connect:
   - L & N to power terminals.
   - RS485: White to DDS661 A, Yellow to B.
4. **Final Checks**
   No loose wires, enclosure closed, ventilation clear.
5. **Power On**
   Turn on the breaker, and check LED indicator (should be solid red).

Usage:

1. Scan QR code to download app:

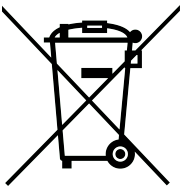


2. Follow in-app instructions.
3. (Optional) Press update to trigger reading.
4. Device auto-reads every hour.

Do not dispose of this product with household waste. Recycle at designated points per local regulations.







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