



Remote Reading

With the remote read function, user can immediately access real-time data, which improves convenience, safety and saves labor costs.



Remote Config

The ability to remotely adjust settings, parameters, and behaviors of these devices without requiring physical access to them. This reduces maintenance costs and minimizes downtime.



Battery Powered

Powered by battery, with lifetime up to 5+ years



KOMINFO CERTIFIED

LORA BRIDGE RTU

TRANSMITTER POWERED BY BATTERY

RTU (Remote Terminal Unit) It is a device commonly used for control systems to monitor and control remote equipment and processes. An RTU collects data from sensors, transmits it to a central control system, and receives instructions to control connected devices with Modbus RTU RS-485 output.

Sensor implementations:



ENERGY METER



DIGITAL FLOWMETER



WATER LEVEL



WATER QUALITY



HVAC



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LORA BRIDGE RTU – Battery Powered



The Modbus-LoRaWAN bridge presents a cost-effective solution for transforming traditional wired MODBUS devices into wireless LoRaWAN nodes. It empowers the ability to read and write any register of the connected Modbus device via LoRaWAN. The configuration of Modbus register mapping on the Modbus-LoRaWAN bridge device can be easily managed remotely from our LoRaWAN server through downlink commands.

Users can conveniently configure the device for various Modbus devices in the field. Moreover, the Modbus-LoRaWAN bridge device offers an optional built-in Bluetooth feature for on-field configuration.

It contains the following feature and benefits :

- Compatibility with both popular Public Protocol (MODBUS, DLMS) and Proprietary Protocol (EDMI Atlas 1).
- Powered by Lithium battery.
- Compatibility with both RS232 and RS485 electrical interface.
- Local data logger function which can be read from built-in Bluetooth communication.
- The System on Chip (SoC) integrating ARM Cortex-M4 core is capable to realize complex algorithms and functions to meet the needs of different Internet of Things applications.
- DIN Rail Installation has the advantages of easily installation, strong flexibility, safety and reliability, low maintenance cost and strong adaptability.
- Maximum upload data size can be up to 128 bytes by utilizing the Sindcon LoRaWAN Server.
- Another alerting system can be develop.

Electrical Parameters

PARAMETERS	LORA BRIDGE RTU
Power supply	3.6V (ER26500 8500mAh)
Active current	≤4mA
TX Current	≤127mA@22dBm
Battery life	Up to 5+ years (Battery powered only)
Battery Usage Monitoring	Accurate Coulomb Measurement
Battery Undervoltage Warning	Yes
CPU Working Temperature	-20°C ... +85°C
Storage Temperature	-10°C ... 70°C



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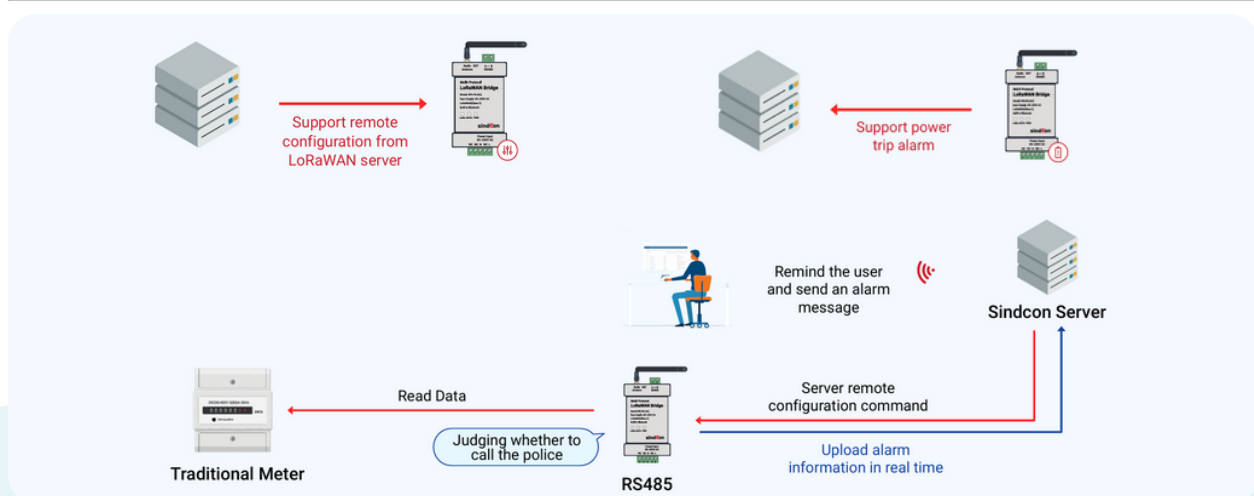


Bluetooth Parameters

PARAMETERS	LORA BRIDGE RTU
Frequency	2.4 GHz
RX Sensitivity	-95 dBm
TX Power	-15 dBm ... 7dBm
Communication range	28 m

LoRaWAN Parameters

PARAMETERS	LORA BRIDGE RTU
LoRaWAN class	Class A/Class C
ISM band	AS923, AU915, EU868
TX Power	Up to 22 dBm
RX Sensitivity	Down to -125dBm@BW = 125 kHz, SF = 7
Channels	8 settable channels with bandwidth of 125kHz
Spreading factor	SF7 ~ SF10 (adaptive)
LBT (Listen Before Talk)	Yes
Number of data cached when wireless network interrupted	10
Memory	256KB Flash; 64KB RAM



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