



Wireless Remote Transmission Module

Product Overview

The LXW Series CAT.1 Smart Remote Transmission Module is an intelligent module with remote communication capabilities. The product integrates metering data acquisition, data storage, remote communication, and local infrared communication in one compact device. It features ultra-low power consumption, high measurement accuracy, and stable performance.

The module can be retrofitted onto compatible mechanical water meters and is widely applicable to residential, commercial, and regional water supply systems. It communicates with the management platform via the CAT.1 network for data transmission and remote command execution while supporting non-contact local maintenance or meter reading through handheld devices.

Main Advantages

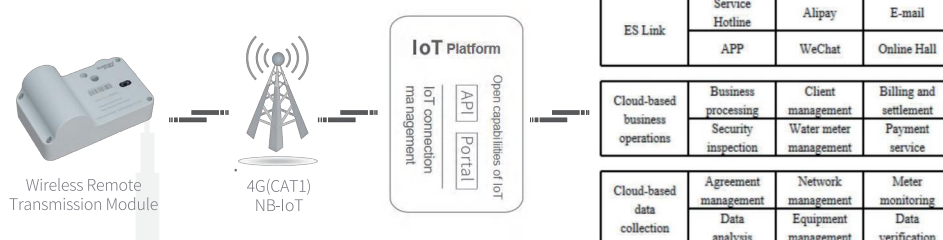
Performance Advantages

- IP68 protection, enabling long-term underwater operation.
- Self-learning function, with adaptive communication frequency adjustment based on signal conditions to extend battery life.
- Goldcard's unique patented antenna technology ensures stable communication, with signal strength over 30% higher than that of typical products on the market.

Structural Advantages

- Designed with an independent support structure, it is compatible with most mainstream base meter models.
- Easy to install, with physical tamper-proofing and anti-theft alarm.
- Self-developed non-magnetic metering technology, leakage detection supported.
- Compact modular design, suitable for installation in confined spaces and meter retrofitting.

Solution Architecture Diagram



Technical Specifications

Name	Wireless Remote Transmission Module
Electro-mechanical Conversion Error	≤1 pulse
Sampling Method	Non-magnetic
Service Life	≥10 years
Protection Class	IP68
Application	DN15-DN300
Non-contact Key	Remote communication and infrared
LED Indicator	Status alerts for system error and local/remote communication
Remote Communication	CAT.1 / NB-IoT; configurable upload period (Default: Daily)
Local Communication	Infrared communication, configurable parameters
Data Storage	Latest 30 days, half-hourly data Latest 90 days, daily data Latest 24 months, monthly data 10 abnormal alarm logs (such as low voltage, metering anomaly, etc.)
Event Logging	Records of key events and alarms
Fault Detection	Non-magnetic module metering error Over-flow error Reverse flow error Voltage anomaly Suspected leakage anomaly Data storage anomaly Dismantling anomaly Clock anomaly Remote communication failure, etc.
Success Rate of Primary Meter Reading	≥99%
Storage Environment	-10°C to 55°C

Actual Installation Effect



For DIEHL



For ITRON



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Goldcard Smart Group Co., Ltd.

A: No.161 Yuancheng Road, Qiantang District, Hangzhou, Zhejiang, China

T: 400-0300-349 W: www.jinka.cn/en E: marketing@jinka.cn

