



Blue Water Sentry

BW-LSSB2

Remote intelligent monitoring terminal

Technical Manual





Introduction

At present, environmental monitoring mainly focuses on river sections and lakes, and can only reflect the result data of river and lake water quality. There is a lack of analysis of pollution sources, making it difficult to trace. However, the urban pipeline network is intricate and complex, with prominent mixing of rain and sewage. Data on pipeline distribution, flow direction, liquid level, water quality, status, and number of connected drainage households are not visible, making it difficult to locate the cause and source of pollution.

This product can be used for monitoring urban drainage networks and river and lake outlets, playing a key role in the intelligent management of urban water bodies. The product can also serve as an intelligent control acquisition device, intelligent gateway, etc., expanding its application fields.

Applications

- information acquisition
- Information upload
- Intelligent alarm
- Intelligent management
- Breakpoint continuation

Specifications



Performance Specifications

Technical Parameter	Wireless transmission	NB-IoT or 4G
	Leakage rate	≤1%
	Sleep power consumption	< 1mW
	Sending power consumption	< 150mW
	Sensor acquisition power consumption	< 400mW
	Battery working time	Under normal working mode ≥ 3 years
	Collection interval	1.5.10.30.60.360.720.1440 minutes can be set
	Sending interval	1.5.10.30.60.360.720.1440 minutes can be set
	Working temperature	-20~70°C
	Storage temperature	-40~85°C
	Environmental humidity	0~100%
	Protection level	IP68
	Explosion proof level	Ex ia IIC T4 Ga
	Size	150×370×97mm
	Weight	3kg
	Power supply voltage	12-16.8VDC
	Working power	< 3.6W
	Standby power	< 0.1W

Operating attentions

Although the remote intelligent monitoring terminal has an IP68 protection level and does not have special requirements for the installation environment, it can work normally in harsh environmental conditions. However, if conditions permit, the following precautions should be followed as much as possible to extend the service life of the equipment.

- Try to stay away from dust, dust, and corrosive gases as much as possible;
- Try to stay away from flammable, explosive, and corrosive substances as much as possible;
- Grounding must be protected;
- Ventilation requirements: Can be connected in normal environments
- The installation point should be stable without vibration;
- Stay away from heat sources;
- Avoid direct sunlight;
- Attention should be paid to lightning protection.

Maintenance

- Power lines, signal lines, and antennas must be reliably connected;
- Fixed: Tighten the four fixed screws to achieve the best protective effect;
- Tighten the waterproof joints and try to thread only one multi-core cable through each waterproof joint to prevent rainwater and corrosive gases from penetrating into the interior of the equipment;
- When communicating with 4G, please keep the ESIM package charged for communication costs;
- The junction box should be coated with lubricants, waterproof glue, etc. to prevent water from entering the junction box.

Declaration: Failure to follow the requirements of maintenance and operation standards during the use and maintenance of the equipment, resulting in abnormal data or equipment malfunctions, shall be the responsibility of the individual.

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Wuxi Bewis Sensing Technology LLC

Address: Building 30, No. 58 Xiuxi Road, Binhu District,
Wuxi City

Email: sales@bwsensing.com

Web: www.bwsensing.com.cn