

Wireless RS485 Adapter
User manual

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1. Statement

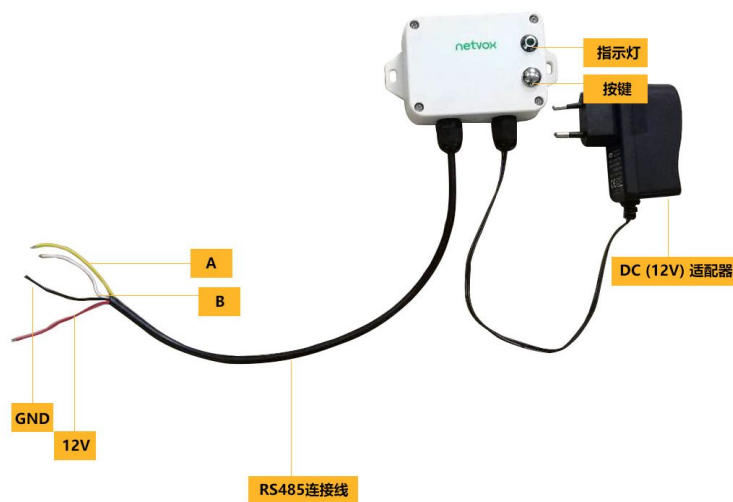
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2. Appearance



3. Introduction

The R718PC is a Class C type device based on the LoRaWAN open protocol of Netvox and is compatible with the LoRaWAN protocol.

The R718PC can transmit the serial port transparently and directly report the information received by the serial port to the corresponding gateway. Serial port transparent transmission only supports RS-485 protocol.

LoRa Wireless Technology:

LoRa is a wireless communication technology dedicated to long distance and low power consumption. Compared with other communication methods, LoRa spread spectrum modulation method greatly increases to expand the communication distance. Widely used in long-distance, low-data wireless communications. For example, automatic meter reading, building automation

equipment, wireless security systems, industrial monitoring. Main features include small size, low power consumption, transmission distance, anti-interference ability and so on.

LoRaWAN:

LoRaWAN uses LoRa technology to define end-to-end standard specifications to ensure interoperability between devices and gateways from different manufacturers.

4. Main Characteristics

- Compatible with LoRaWAN
- DC 12V adapter power supply
- Simple operation and setting

5. Operation

5.1 Power on and Turn on / off

- (1) **Turn on:** It is powered by 12V DC power supply. Press and hold the binding button for 3 seconds and release it. The LED flashes once and the device is turned on successfully.
- (2) **Turn off:** Press and hold function key for 5 seconds till the green indicator flashes quickly and release. The green indicator will flash 20 times to show that the device is turned off.

Note:

1. The interval between shutting down twice or power off/on is suggested to be about 10 seconds to avoid the interference of capacitor inductance and other energy storage components.

5.2 Join Into LoRa Network

To join the device into LoRa network to communicate with LoRa gateway.

The network operation is as following:

- (1) If the device had never joined any network, turn on the device; it will search an available LoRa network to join. The green indicator will stay on for 5 seconds to show it joins into the network, otherwise, the green indicator will be off.
- (2) If R718PC had been joined into a LoRa network, turn on the device; it will repeat step (1).

5.3 Function of Keys

- (1) Press and hold function key for 5 seconds to reset to factory setting. After restoring to factory setting successfully, the green indicator will flashes quickly 20 times.
- (2) Press function key to turn on the device which is in the network and the green indicator will flash once and the device will send a data report.

5.4 Data Report

A version package will be sent immediately after the device is powered on. The version packet transmission frequency is 24 hours/time.

The R718PC device sets the warm-up time by issuing an instruction.

The R718PC device sets the periodic packet sending time by issuing commands, and then sends the data received by the serial port according to the set time.

The R718PC device sets the command data sent to the serial port by sending an instruction. The device periodically sends the set command data and reports the data received by the serial port of the device to the gateway.

5.5 Restore to Factory Setting

Operation method:

1. Press and hold the binding button for 5 seconds to release (the binding button is released when the LED flashes), and the LED flashes 20 times.
2. After the R718PC is restored to factory settings, it needs to be restarted before it can be added.

Note: Restore factory settings, ACK is off by default; ADR is enabled by default;

6. Important Maintenance Instruction

Your device is a product of superior design and craftsmanship and should be used with care. The following suggestions will help you use the warranty service effectively.

- Keep the equipment dry. Rain, moisture, and various liquids or moisture may contain minerals that can corrode electronic circuits. In case the device is wet, please dry it completely.
- Do not use or store in dusty or dirty areas. This can damage its detachable parts and electronic components.
- Do not store in excessive heat. High temperatures can shorten the life of electronic devices, destroy batteries, and deform or melt some plastic parts.
- Do not store in a cold place. Otherwise, when the temperature rises to normal temperature, moisture will form inside, which will destroy the board.
- Do not throw, knock or shake the device. Rough handling of equipment can destroy internal circuit boards and delicate structures.
- Do not wash with strong chemicals, detergents or strong detergents.
- Do not apply with paint. Smudges can block debris in detachable parts and affect normal operation.
- Do not throw the battery into a fire to prevent the battery from exploding. Damaged batteries may also explode.

All of the above suggestions apply equally to your device, battery and accessories. If any device is not working properly.

Please take it to the nearest authorized service facility for repair.