LoRa Gateway Configuration Manual V1.0.4



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1. USB RS232 Cable



The RS232 cable is modified based on the normal RS232 Cable. It can be used to configure LoRa Gateway on personal computer.

Before using configuration software, please connect our LoRa Gateway to computer via our RS232 cable. The smaller USB port connects with the LoRa Gateway USB

systems

port, the bigger USB port connects with the computer.

2. Step

- 1) Install. NET Framework
- 2) PL-2303 driver is for RS232 configuration cable,



Please install

(XP/Vista/Win7/Win8/Win10)

- 3) Connect the configuration cable to the computer.
- 4) Go to desktop, choose My Computer-> click right button -> choose Manager-> System Tools -> Device Manager -> Ports, you will find the port which

configuration cable is using

Prolific USB-to-Serial Comm Port (COM3)

under

windows



- 5) Connect LoRa Gateway with computer via the configuration cable.
- 6) Run the configuration software \times LoRa.Configure

M : COM4 • Password: 000000	C Read Config Write Config	Log Command:	Write
01(Modify Password) New Password:	003(Set SMS number) SMS Number: Read Write	004(Low Voltage Alarm) Low Voltage: Read Write	008(Extend Setting) RES SMS: ACK: Read Write
16(Enable/Disable GPRS function)	011(APN) APN: UserName: Password:	019(GPRS Mode) Mode: O UDP © TCP Read Write	015(Set IP and port) Mode: © IP © Domain IP/Domain:
40(Set RS485) Baud Rate: 9600 * Data bits: 8bit * Number of stop bits: 1bit * Parity bit: No	Read Write 018(GPRS Interval) s Time Interval: s	136(RF) Enable: Read Write	Port: Read Write 020(Digital output alarm function)
41(R5485 working mode) Carl Active transport O Modbus Read Write	043(RS485 no repeat read time) Time:	Time: min Read Write 500(Clear Queue) Write	Enable: Read Write 030(SMS alarm setting) Temperature and Humidity:
42(RS485 address) Address: Read Write	044(Sensor maximum connection time) Time: s	600(Reboot Time) Enable:	External power off:

- 7) Turn on LoRa Gateway.
- 8) Please select the correct COM port and write correct password. Then click[[] button on the software. If the port connects successfully, it will show that the serial port is opened and all the parameter will be shown on the

software, Read Successful the mean is that reading the machine successfully.

OM : COM4 • Password: 000000	Read Config Write Config	g Log Command:	Write
001(Modify Password) New Password: 000000 Write	003(Set SMS number) SMS Number: Read Write	004(Low Voltage Alarm) Low Voltage: 360 Read Write	008(Extend Setting) RES SMS: ACK: Read Write
D16(Enable/Disable GPRS function) Enable: Read Write D40(Set RS485) Baud Rate: 9600 Data bits: 8bit Number of stop bits: 1bit Parity bit: No Read Write	011(APN) APN: UserName: Password: Re 018(GPRS Interval) Time Interval: Re	o19(GPRS Mode) Mode: UDP TCP Read Write for the state of the state	015(Set IP and port) Mode: IP Opmain IP/Domain: t- gateway.tzoned igital.cn Port: 54929 Read Write 020(Digital output alarm function) Enable: I
41(RS485 working mode) Active transport Read Write M42(RS485 address) Address: 01 Read Write	043(RS485 no repeat read time) Time: 0 s Read Write 044(Sensor maximum connection time) Time: 3600 s Read Write	Read Write 500(Clear Queue) Write 600(Reboot Time) Enable: Z Time: 1440 min Read Write	Read Write 030(SMS alarm setting) Temperature and Humidity: External power off: Low pressure: Read Write 990(Initialization Tracker)

9) Click [Read Config] button , the

Read Successful

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] will be shown on, read all the parameter.

10) Click [Write Config] button, it will be shown



- 11) Click [Log], can open the log mode
- 12) Com port data stored [Save]
- 13) Clear com port data [Clear]
- 14) Stop com port data [Pause]
- 15) Running com port data[Run]

16) Refer to the instructions of the SMS instruction list, the white strip which input you want to send the instructions and click on send, this feature can configure your machine faster.

Command:

[Write] Send the current command

3. Configure Software

Choose the port which configuration cable is using. The port name is "Prolific USB-to-Serial Com Port", then press "Connect" button.

Each instruction can be separately read and written.

Modify Password (001)

New password: set the new password

Set SMS number (003)

SMS Number: Set a preset SMS number, the SIM card number of receiving the alarm.

Low Voltage Alarm (004)

Low voltage: it is the low power alarm voltage, eg: 3.8v, low voltage=380 (default:350)

Extend Setting (008)

ACK:Don't choose,disable Sensor ACK download function ACK:Choose,enable Sensor ACK download function Close SMS: Don't choose, enable SMS information function (default) Close SMS:Choose, disable SMS information function Server ACK:Don't choose,disable GPRS ACK function Server ACK:Choose,enable GPRS ACK function

Enable/Disable GPRS function (016)

Enable:Enable GPRS function **Disable:**Disable GPRS function

APN (011)

APN: APN for GPRS function of GSM provider (max 27 characters)
User Name: Some GSM providers require GPRS login with user name. If no name in need, please keep in blank (max 27 characters)
Password: Some GSM providers require GPRS login with password. If no password in need, please keep in blank (max 27 characters).

Set IP and port (015)

mode: IP or DomainIP/domain: This is the server DNS/IP address.The server must have a fixed DNS/IP address/URL(If select the HTTP protocol,Pleas write URL in here)Port: TCP port of server(If select the HTTP protocol,can fill in any Port)

GPRS Interval (018)

Time Interval: The GPRS data time interval[10,999]/s

GPRS Mode (019)

Mode TCP: TCP data transfer mode UDP: UDP data transfer mode

Digital output alarm function (020)

Enable:Enable digital output alarm function

Disable: Disable digital output alarm function

If you want the buzzer or light alarm when the temperature and humidity more than limit, you can enable this function and connect it

SMS alarm setting (030)

Temperature and Humidity: Whether to open the temperature and humidity sms alarm

External power off:Whether to open the external power off sms alarm **Low Voltage:**Whether to open the Low Voltage sms alarm

Set RS485 (040)

Baud rate choosing range [1200,9600,19200,38400,57600,115200] 9600 (default) Data bit 0-8bit (default) 1-9bit; Stop bit 0-0.5bit, 1-1bit (default) 2-1.5bit, 3-2bit Parity bit 0-null (default) 1-Even parity, 2-Odd parity

RS485 working mode (041)

Active transport: RS485 initiative to send data Modbus:When the RS485 receives the request, and then send data

RS485 address (042)

Address:Set RS485 address of the LoRa Gateway

RS485 Anti-Reread (043)

Time:RS485 send once sensor data within this time period, no matter LoRa Gateway receive this sensor many times[0-3600]/s,only use in RS485 Report automatically mode

Max sensor online time (044)

Time:LoRa Gateway will think sensor is offline if it do not receive this sensor within this time period [0-86400]/s,only use in RS485 modbus mode

GPRS send interval when external power off (127)

Enable:enable this function Disable:disable this function Time: GPRS sending interval when cut off external power[10,6000]/s

RF (136)

Enable:enable RF function **Disable:**disable RF function

Sensor alarm (142)

Disable: disable sensor alarm function

Enable: If sensor's temperature exceed Temp_H, under Temp_L, humidity exceed RH H, under RH L, gateway alert.

Sensor itself alarm: If sensor's status means alert gateway alert;

Over TempH/RH alarm: If sensor's temperature exceed Temp_H gateway alert, when temperature under Temp_L gateway relieve alert; If sensor's

humidity exceed RH_H gateway alert, when humidity under RH_L gateway relieve alert;

Low TempH/RH alarm: If sensor's temperature under Temp_L gateway alert, when temperature exceed Temp_H gateway relieve alert; If sensor's humidity under RH_L gateway alert, when humidity exceed RH_H gateway relieve alert Temp_H:high-temperature threshold (-55~125,unit: °C, default: 100); Temp_L:low-temperature threshold(-55~125,unit: °C, default: 0) RH_H:high-humidity threshold(0~100,unit:%,default: 80) RH_L:low-humidity threshold(0~100,unit:%,default: 0)

Sensor (144/145/146/147)

Channel: Select channel[1,100] and sensor ID(8 bits) Add: Add a sensor Delete:Delete a sensor Delete all:Delete all sensor Read:Read all sensor

Restart RF (148)

Time: Choose reboot time when RF can't receive new data [1,1440]/s

Set GPRS transmission format (200)

TCP/IP:Set GPRS transmission is TCP/IP **HTTP:**Set GPRS transmission is HTTP

Set Http Proxy Server (201)

Enable:Enable Http proxy server IP: Proxy server IP address Port: Proxy server port

Clear (500)

Clear history in the flash memory

Reboot time (600)

Enable: Enable Reboot time Disable:Disable reboot time Interval: Reboot time interval[10,9999]/m

Initialization Device (990,099)

It will set all parameters to factory default value (Excluding the Password).

Reboot (991)

It will reboot the LoRa Gateway