LoRa Gateway
Configuration Manual V1.0.4

Content

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

port , the bigger USB port connects with the computer.

2. Step

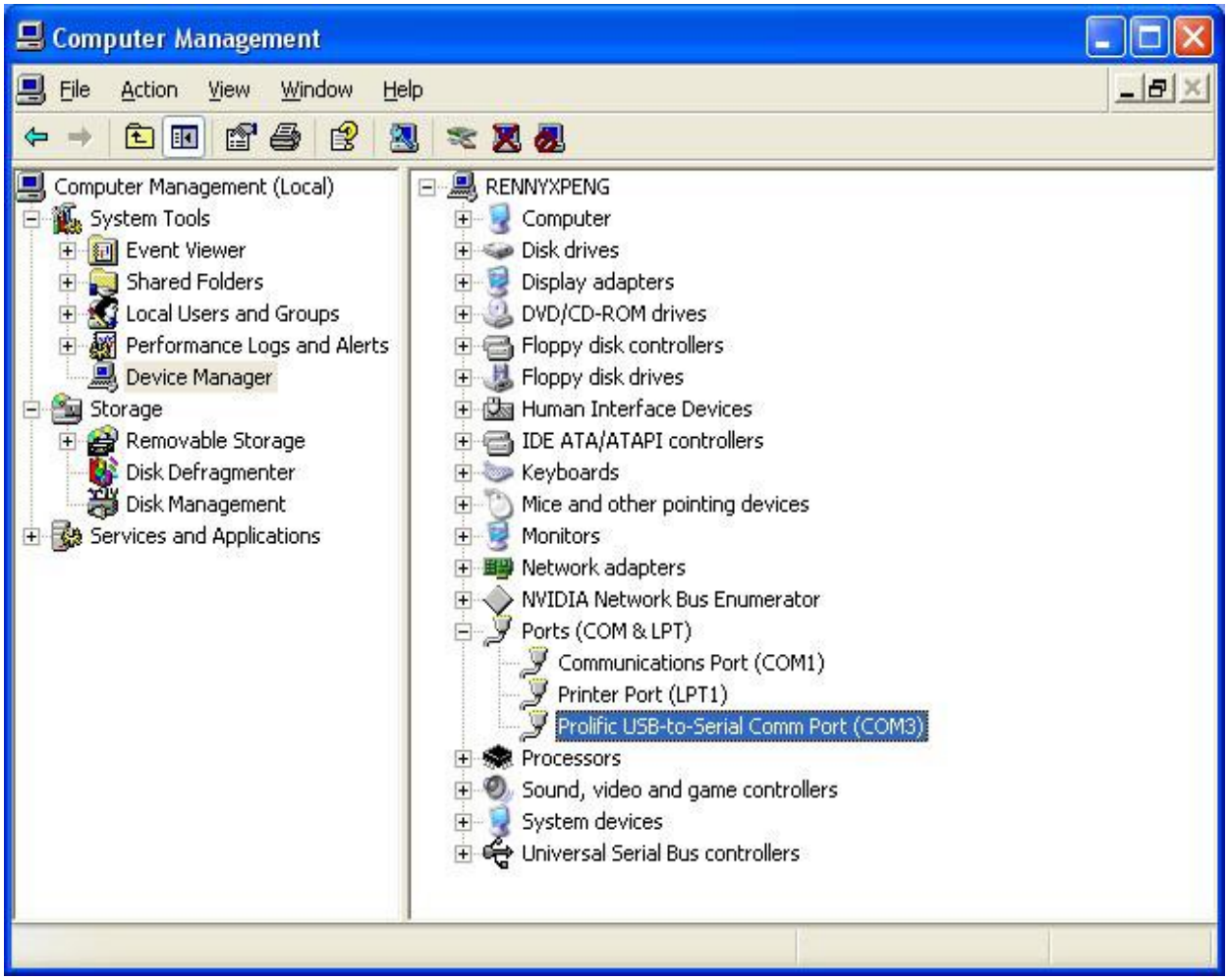
1) Install. NET Framework
2) PL-2303 driver is for RS232 configuration cable,

Please install 

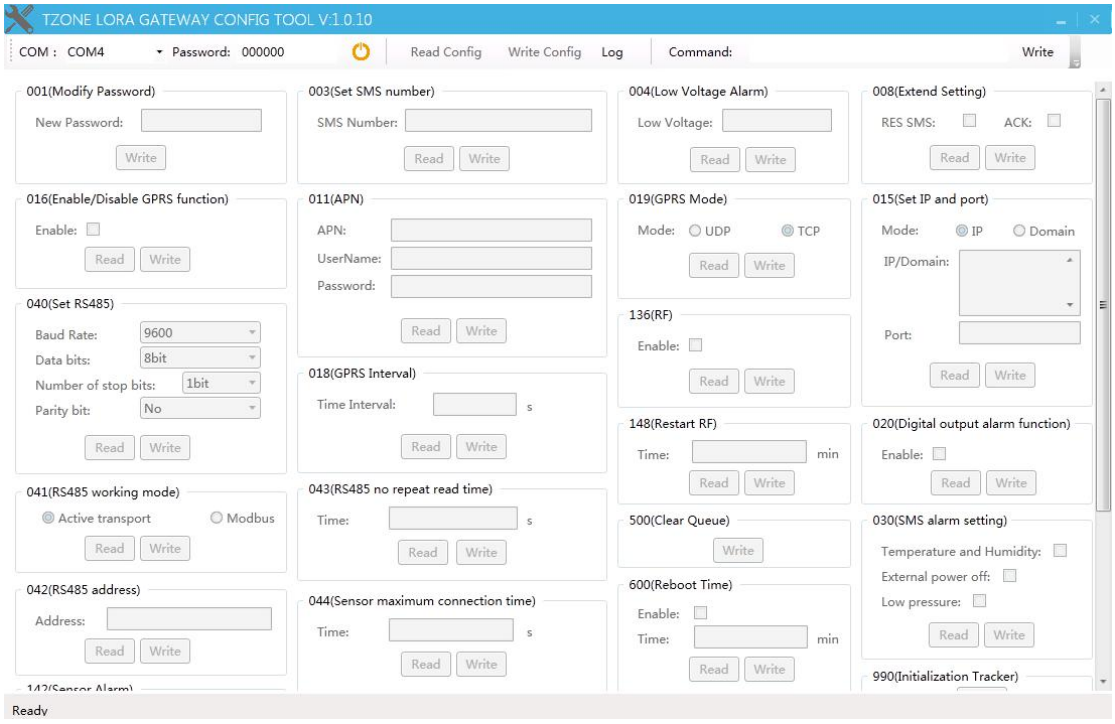
under windows systems (XP/Vista/Win7/Win8/Win10)

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 

.



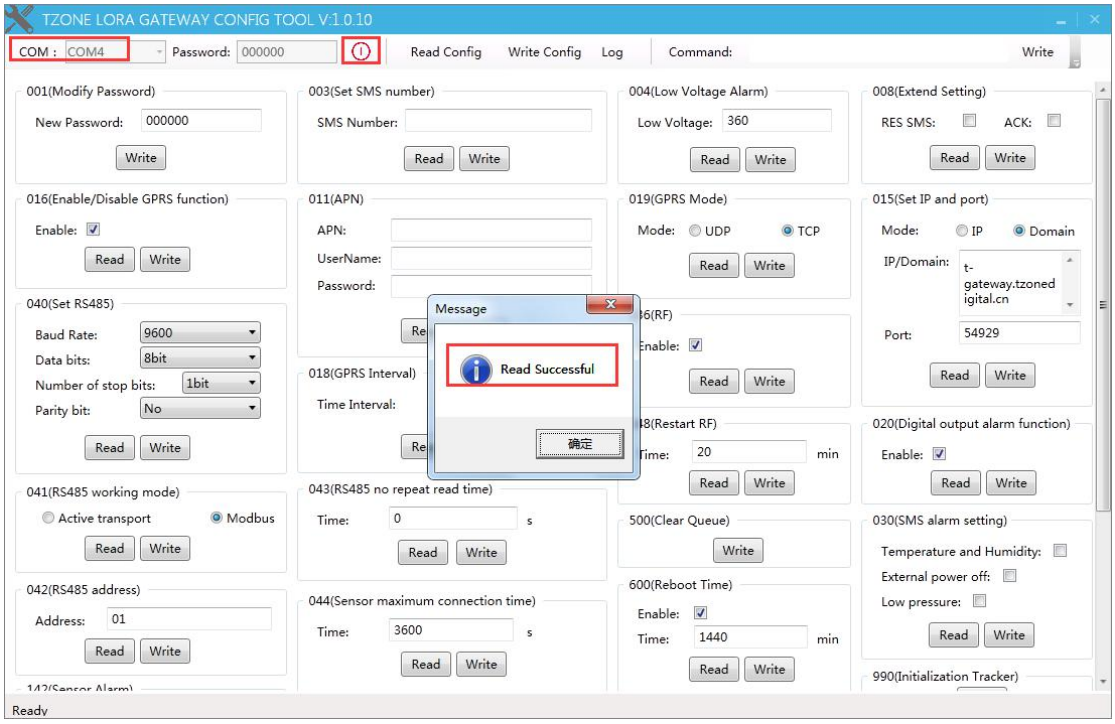
5) Connect LoRa Gateway with computer via the configuration cable.
6) Run the configuration software 



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, 

the mean is that reading the machine successfully.



9) Click [Read Config] button , the

[Read Successful] will be shown on, read all the parameter.

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

[Write Successful], write all the parameter.

11) Click [Log], can open the log mode

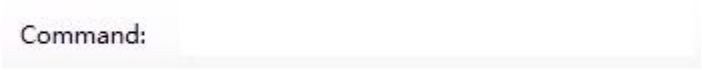
12) Com port data stored [Save]

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.



[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 Domain
IP/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:℃, default: 100);
Temp_L:low-temperature threshold(-55~125,unit:℃,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