LoRaWAN Sensor (TAG07/07B)
Configuration Manual V2.2

1. USB RS232 Cable

Please use the RS232 special configuration cable which is provided by our company to connect the computer to configure the sensor.
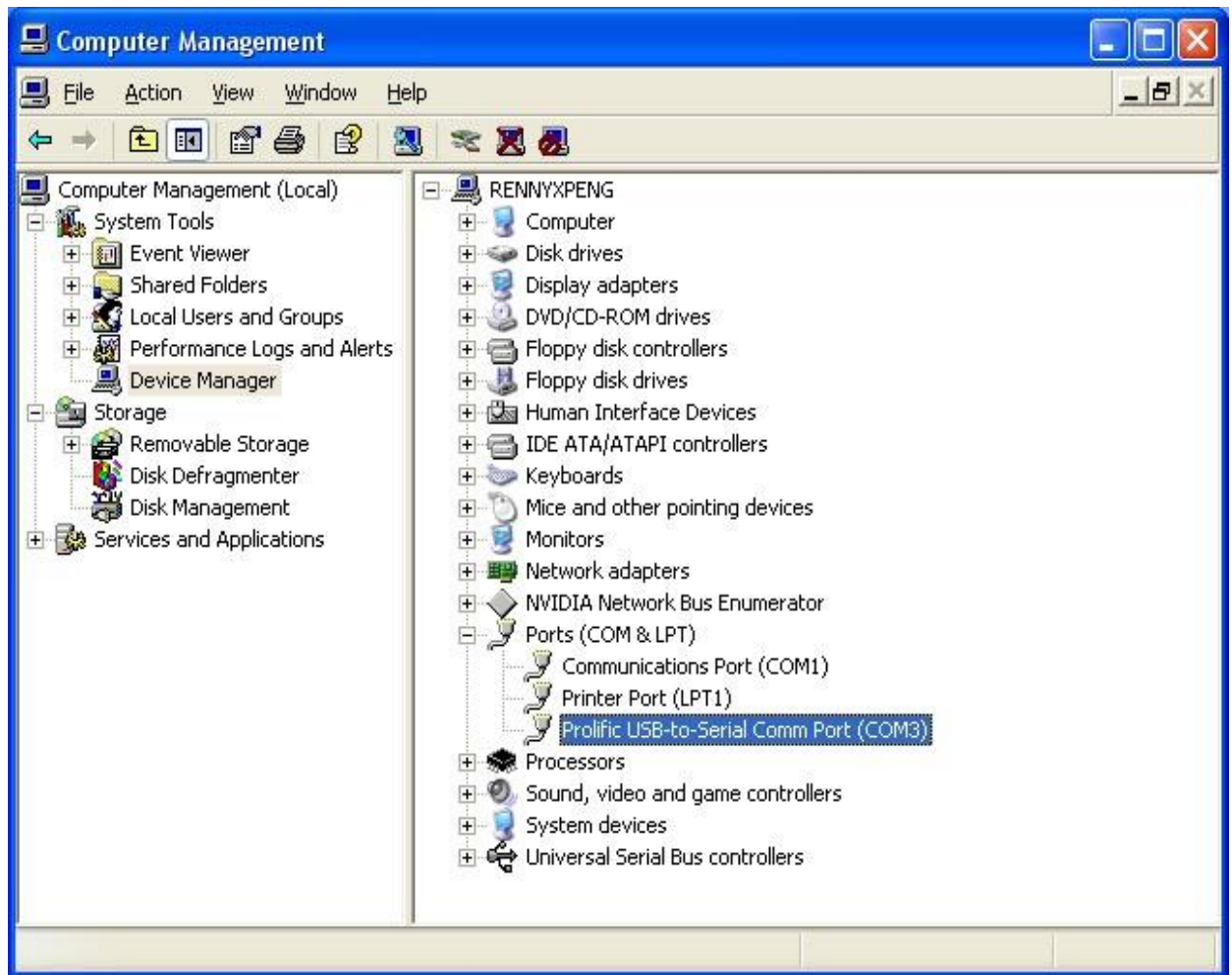
2. Steps

1) PL-2303 driver is for RS232 configuration cable,

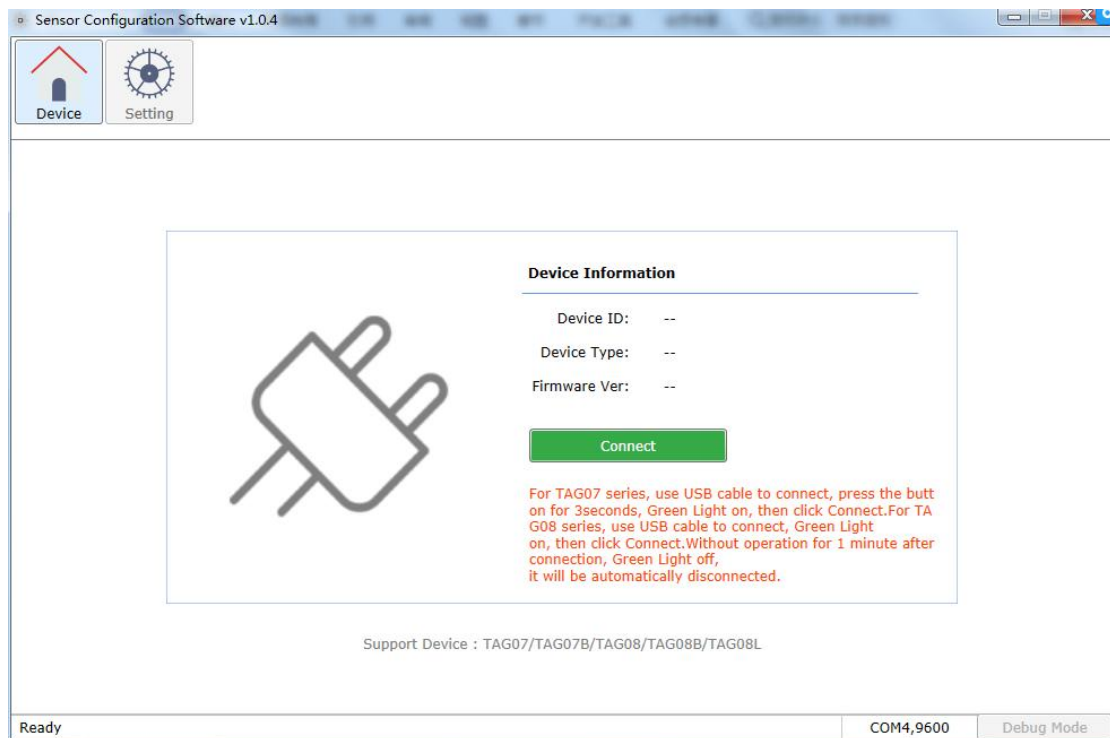
Please install (XP/Vista/Win7/Win8/Win10) in windows systems

2) Connect the configuration cable to the computer.
3) After the device is installed successfully, return to the desktop, select "My Computer"-> right-click -> choose "Manager"-> "System Tools" -> "Device

Manager" -> "Ports", and you will find the port which configuration cable is connected. Prolific USB-to-Serial Comm Port (COM3) .

3. Configure Software

1）Connect the Sensor to computer through the RS232 configuration cable.

2）Run the configuration software Sensor Configuration Software.exe

3）Connection

A.Confirm that the switch of the sensor is on, if it is on, press and hold the button for 3 seconds until the green light is always on , and then click "Connect";
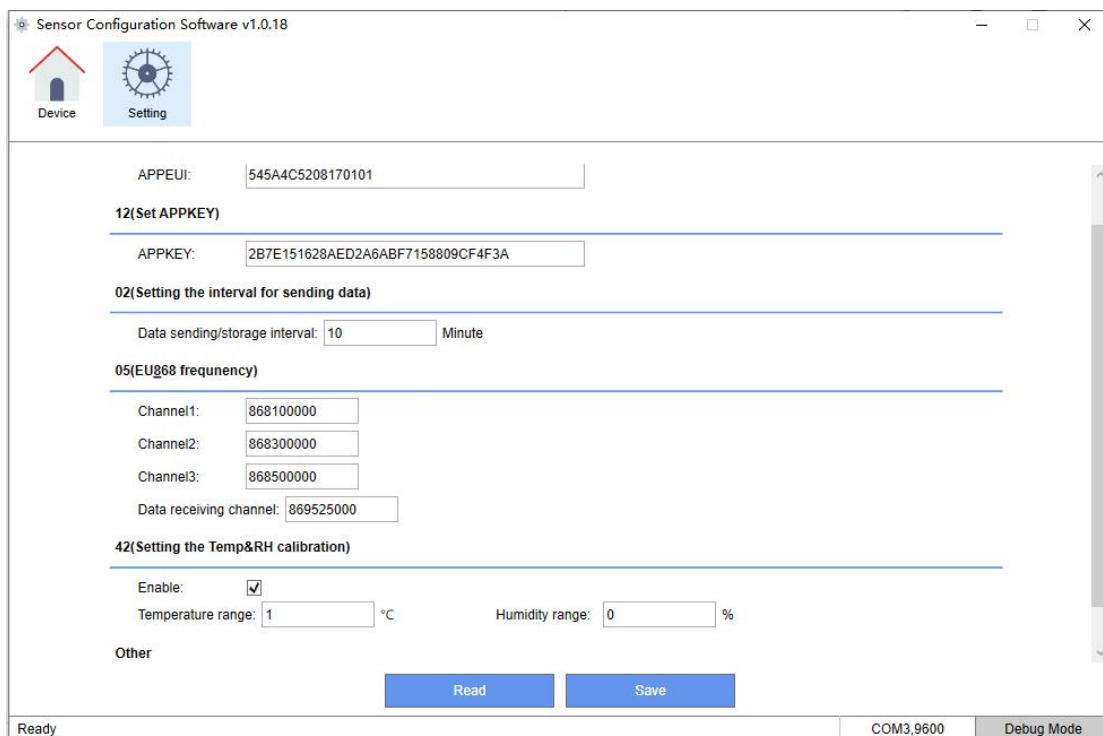
B. Confirm that the switch of the sensor is on, if it is off, turn it to on first, wait for the light off, and then press and hold the button for 3 seconds until the green light is always , and then click "Connect";

After successful connection, the following image interface will appear (If the sensor is not operated within 1 minute and the green light is off, the sensor will automatically disconnect, and you need to click "connect" again before you can continue to configure the sensor).

4）Setting

After successful connection, the sensor will automatically change to the setting interface:

Set APPEUI (11)

APPEUI:16byte,default:545A4C5208170101

Set APPKEY(12)

APPEUI:32byte,default:2B7E151628AED2A6ABF7158809CF4F3A

Setting the interval for sending data(02)

Data sending/storage interval: The Sensor data transmission interval X:[1,1440], Unit:Min,default:15

CN470(05)

Channel 1~8:default:0,1,2,3,4,5,6,7
Data receiving channel:default:50530000Hz

CN868(05)

Channel 1:default:868100000
Channel 1:default:868300000
Channel 1:default:868500000
Data receiving channel:default:869525000

SSetting Temp&RH calibration (42)

TAG07_LORAWAN:

Enable: enable temperature calibration function
Temperature range:
If the calibration value is added to the temperature, it begins with +;
If the calibration value is reduction to the temperature, it begins with -;
Can support to one decimal point, unit: °C

TAG07B_LORAWAN:

Enable: enable temperature calibration function
Temperature range:
If the calibration value is added to the temperature, it begins with +;
If the calibration value is reduction to the temperature, it begins with -;
Can support to one decimal point, unit: °C
Humidity range:
If the calibration value is added to the humidity, it begins with +;
If the calibration value is reduction to the humidity, it begins with -;
Can support to one decimal point, unit: %

Others

Export device log data: The recorded data can be saved and exported to a CSV file via click and the data will be automatically cleared after exporting.
Clear device log data: Click to delete the data recorded of the sensor
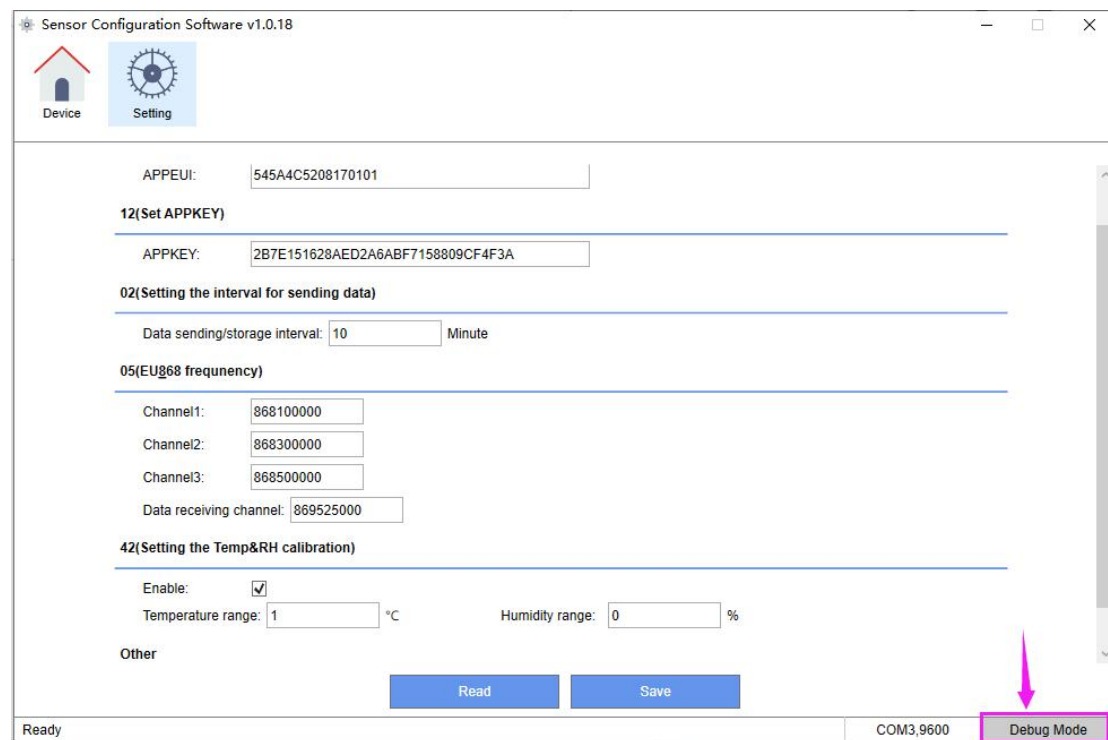**Reset:** click and reset the sensor
Read: click and read all the parameters of the sensor
Save: click and save all the parameters of the sensor

Debug mode

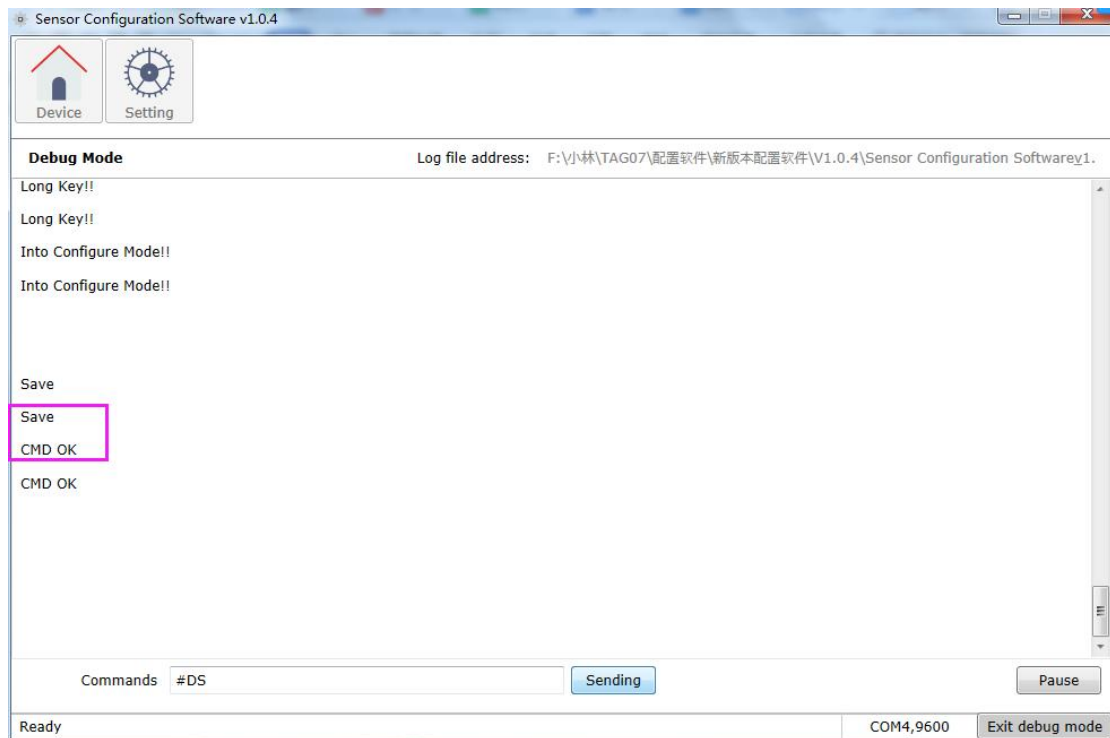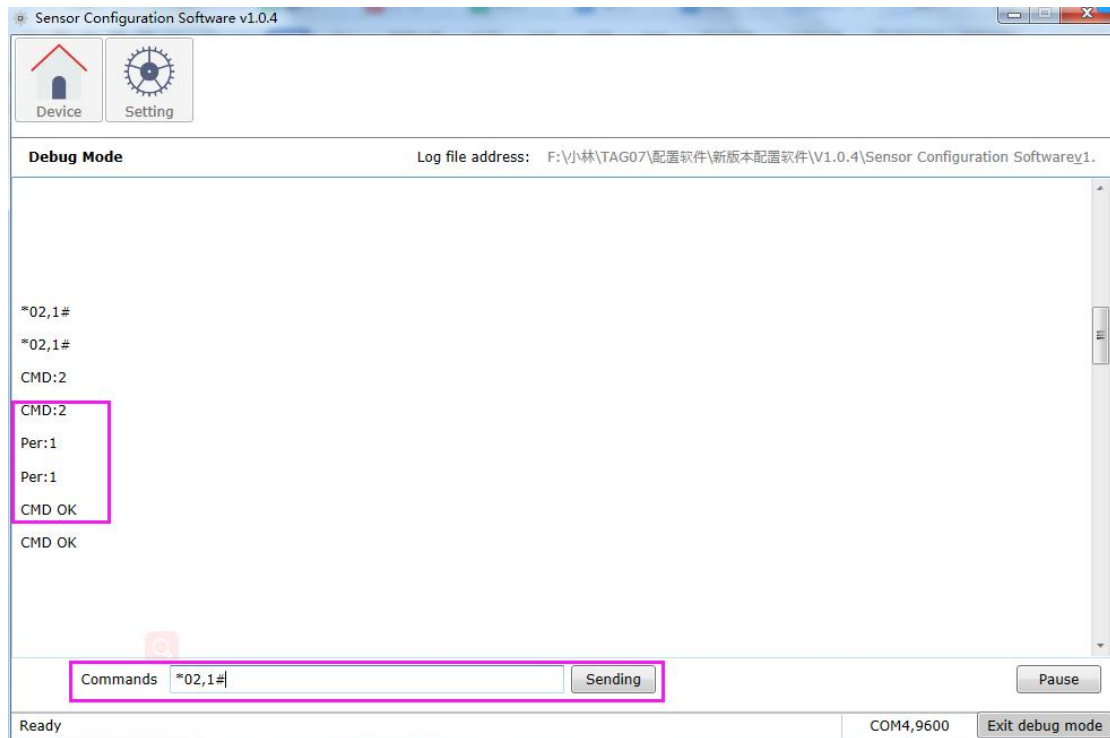In debugging mode, sensor parameters can be configured and sensor logs can be viewed by commands.
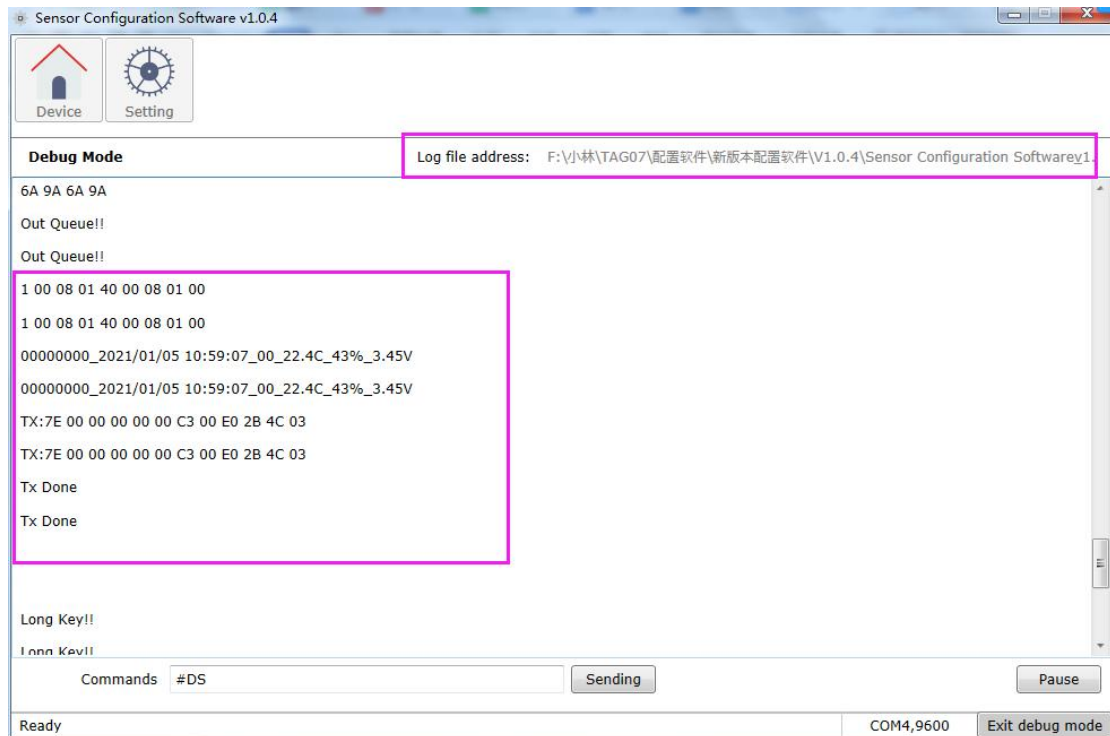
1) Click to enter debug mode:

2) In debug mode , the sensor parameters are configured directly by commands.

Note: After writing the commands, please click "send". After sending , please write #DS to save the setting(Please refer to the command list for more detailed).
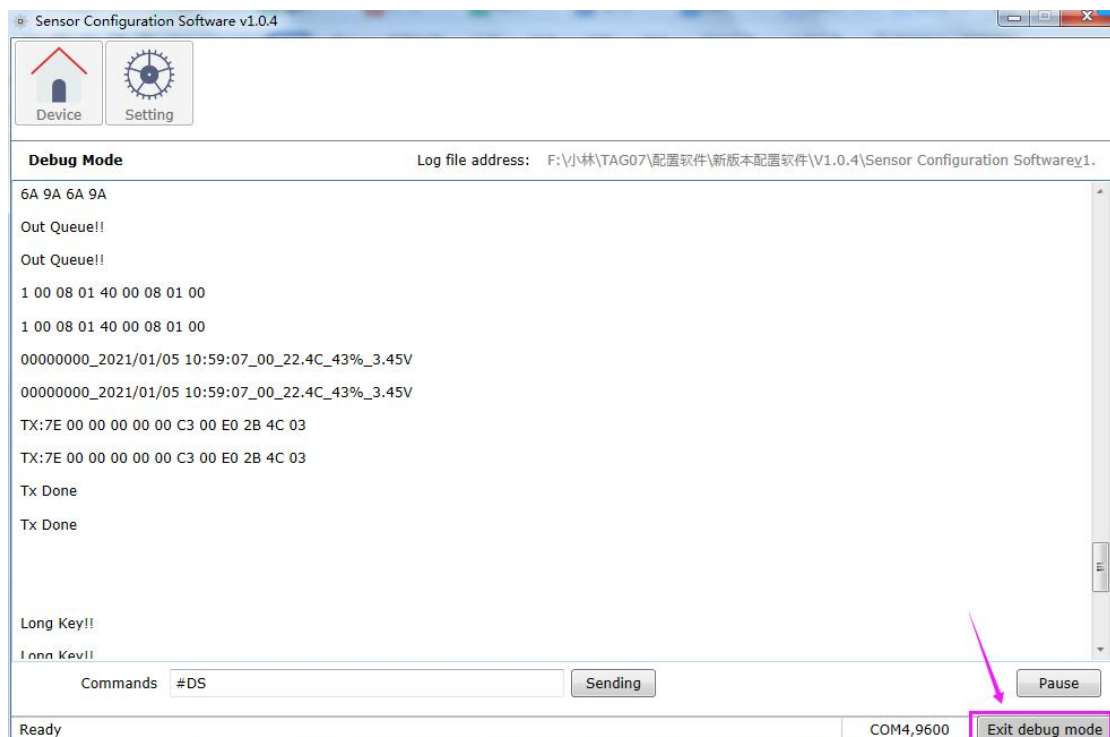
3) View the sensor log in debug mode

After 1 minute, the sensor will exit the configuration mode and enter the sensor log mode. Machine data can be viewed, and log reports are stored in the log file.

4) Click to exit debug mode

Click to exit debugging mode to return to the home page, If the sensor green light is off, it is necessary to click "disconnect" and press the button again for 3 seconds. Click the connect when the green light is always on.
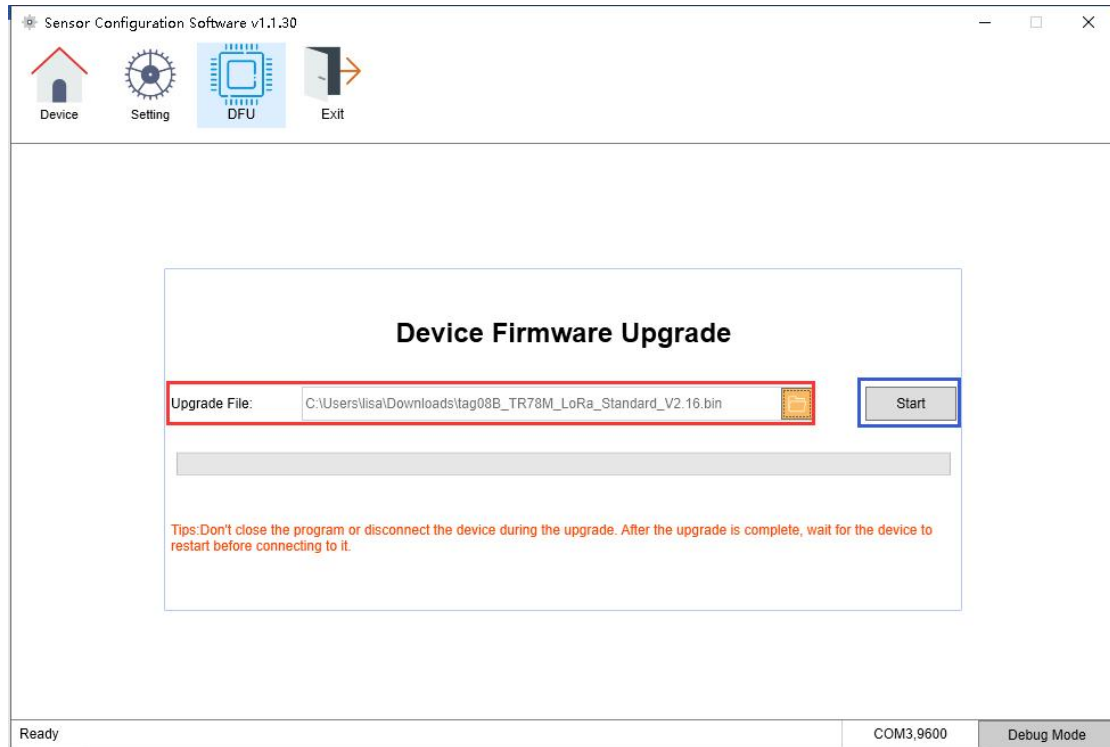

Note: The sensor can only be configured when the green light is always on. The sensor cannot be configured after the green light is off.
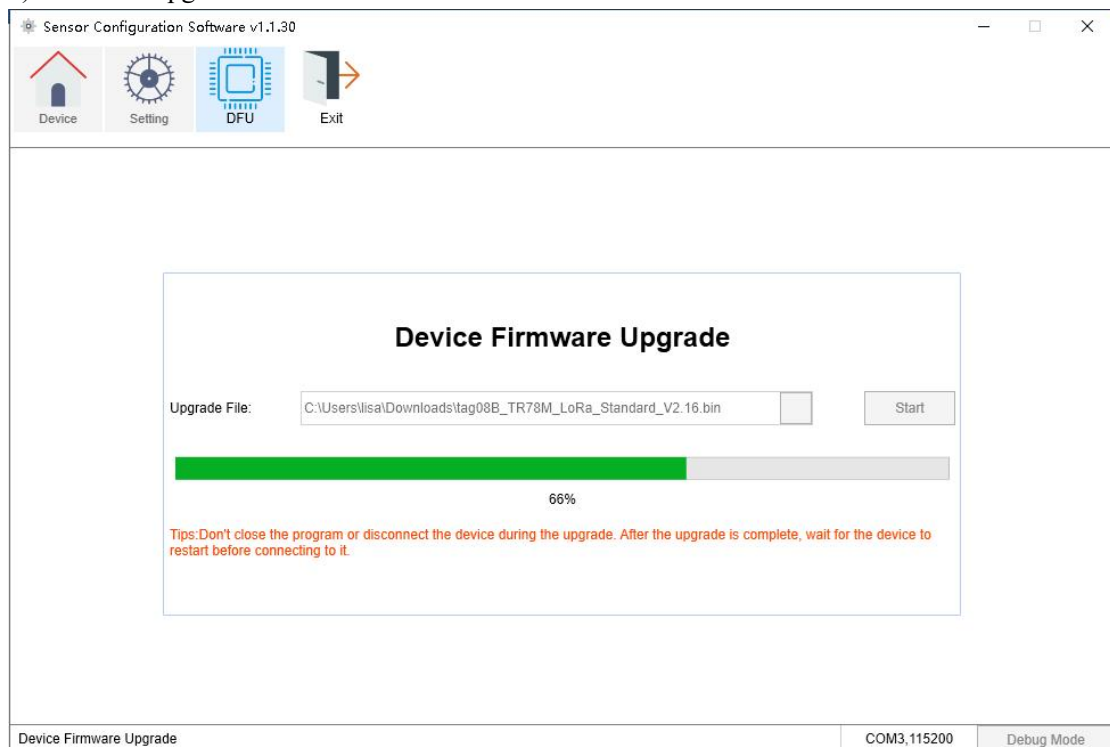
DFU

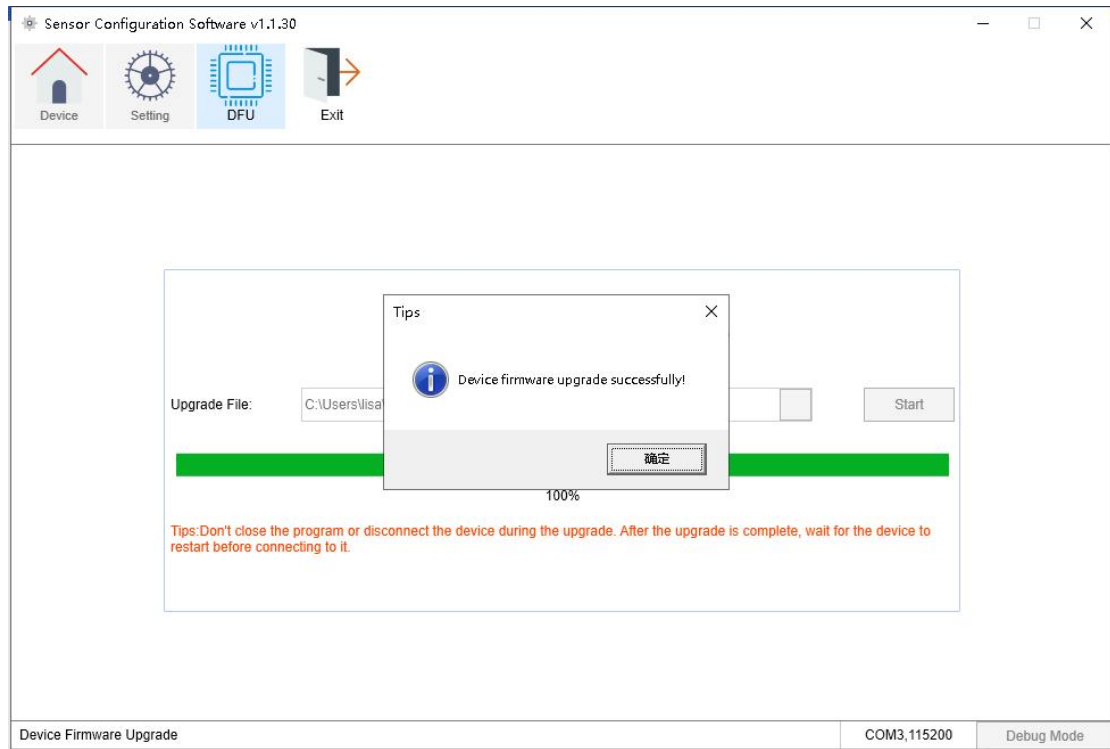can use the configuration software to upgrade the device firmware

1）Select the bin file and click "Start".

2) Firmware upgrade.

3) Device firmware upgrade successfully.

4) If the device cannot be connected or upgraded due to any abnormal operation during the upgrade, please contact us.