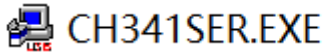


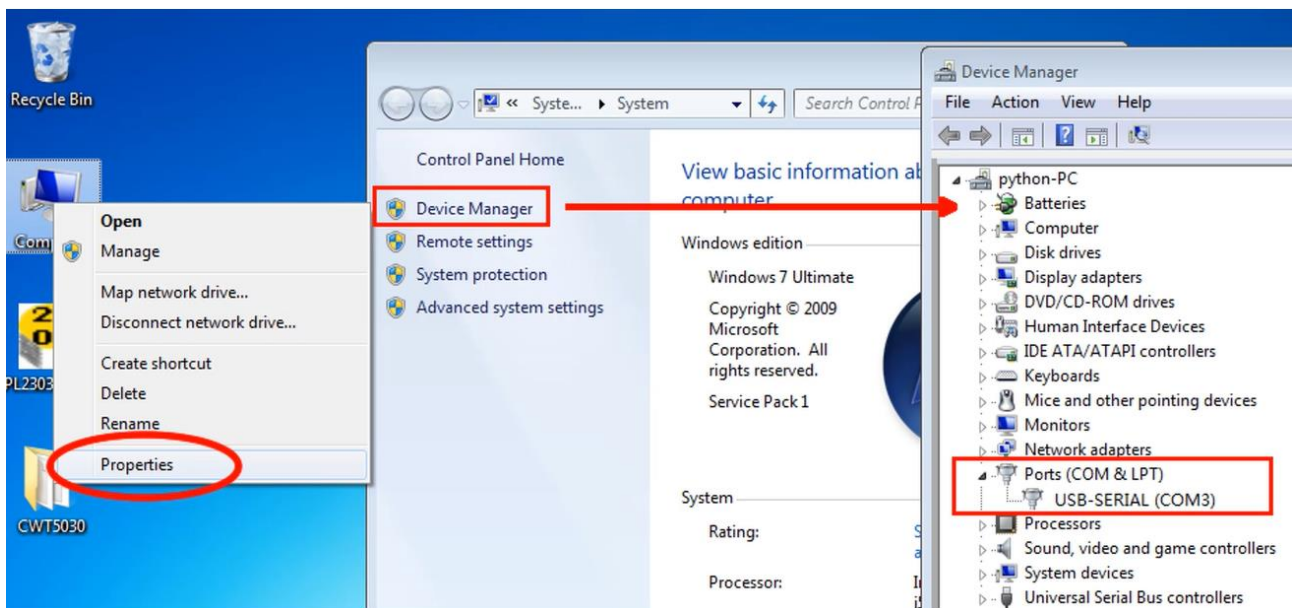
# CWT LoRa Modbus IO Module Config Guide

## 1 Install device USB driver



## 2 Connect device to PC via USB cable

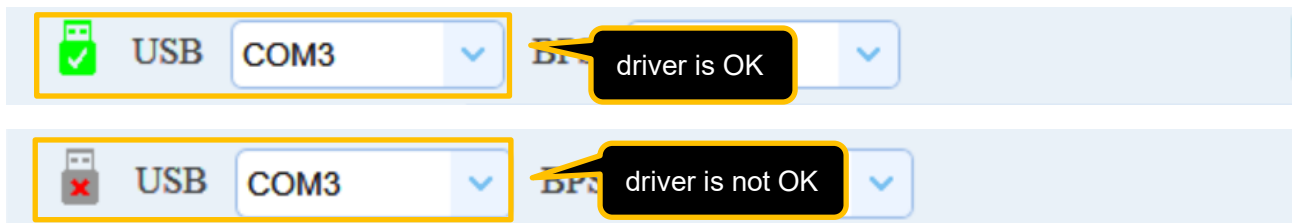
Check the com port in device manager



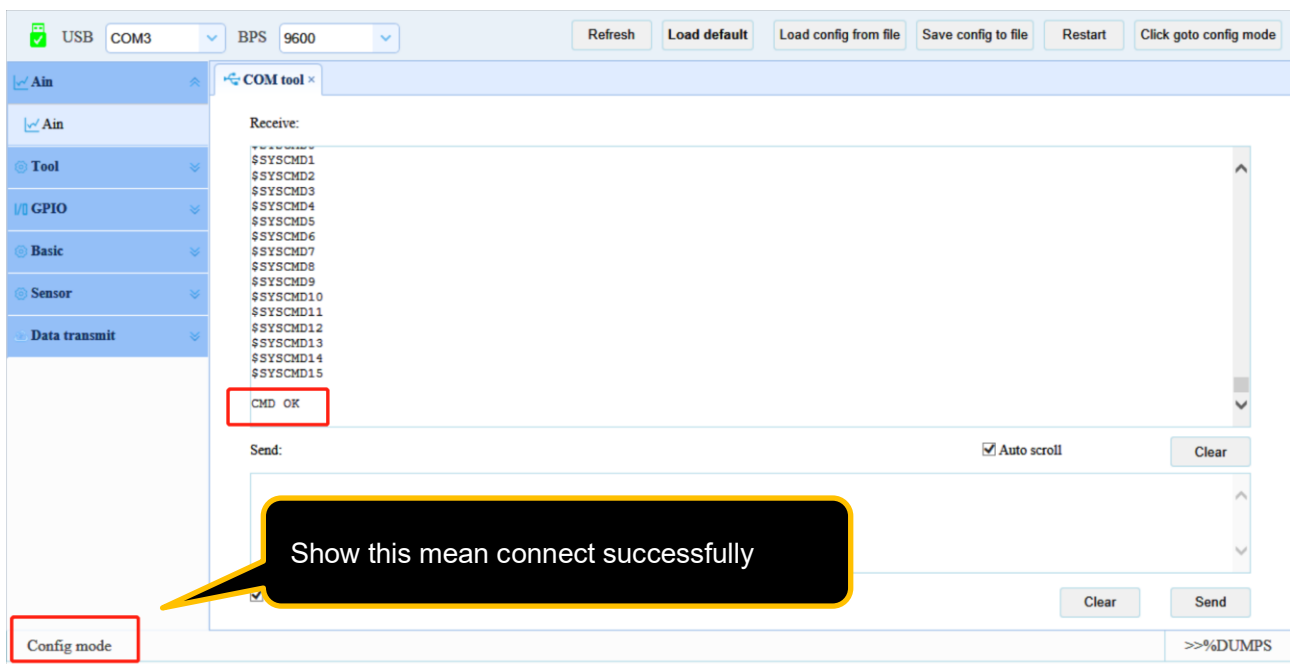
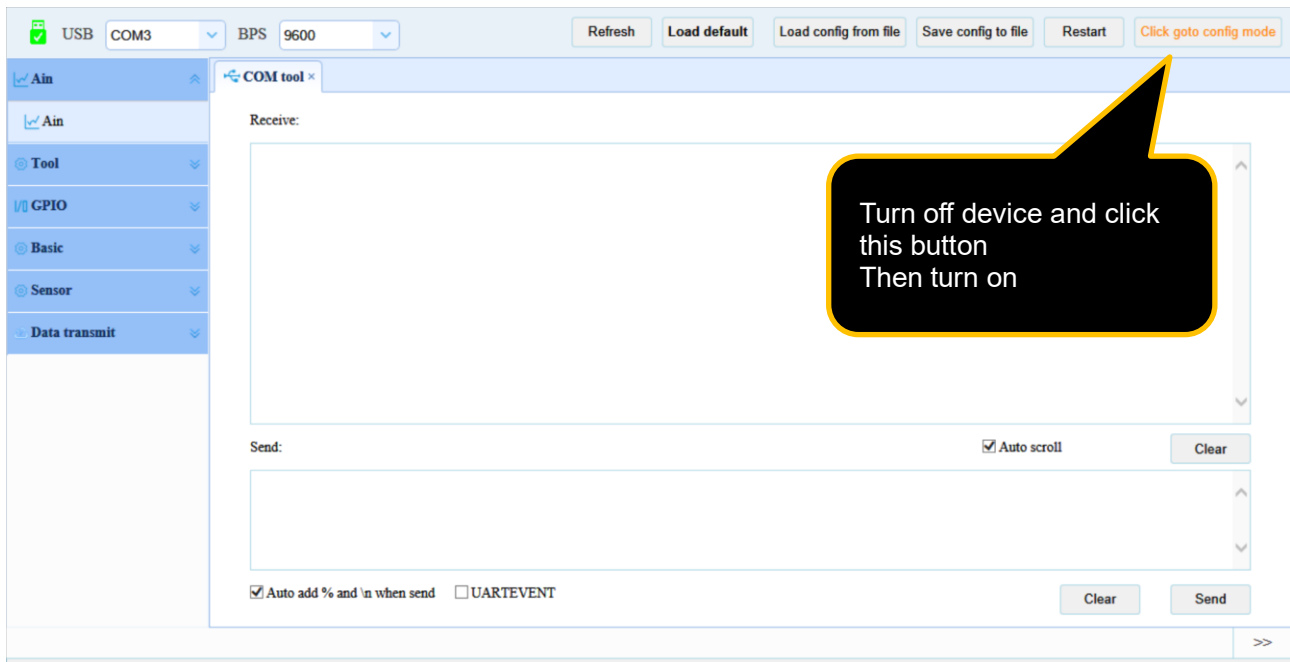
## 3 Connect device to config tool

Run config tool

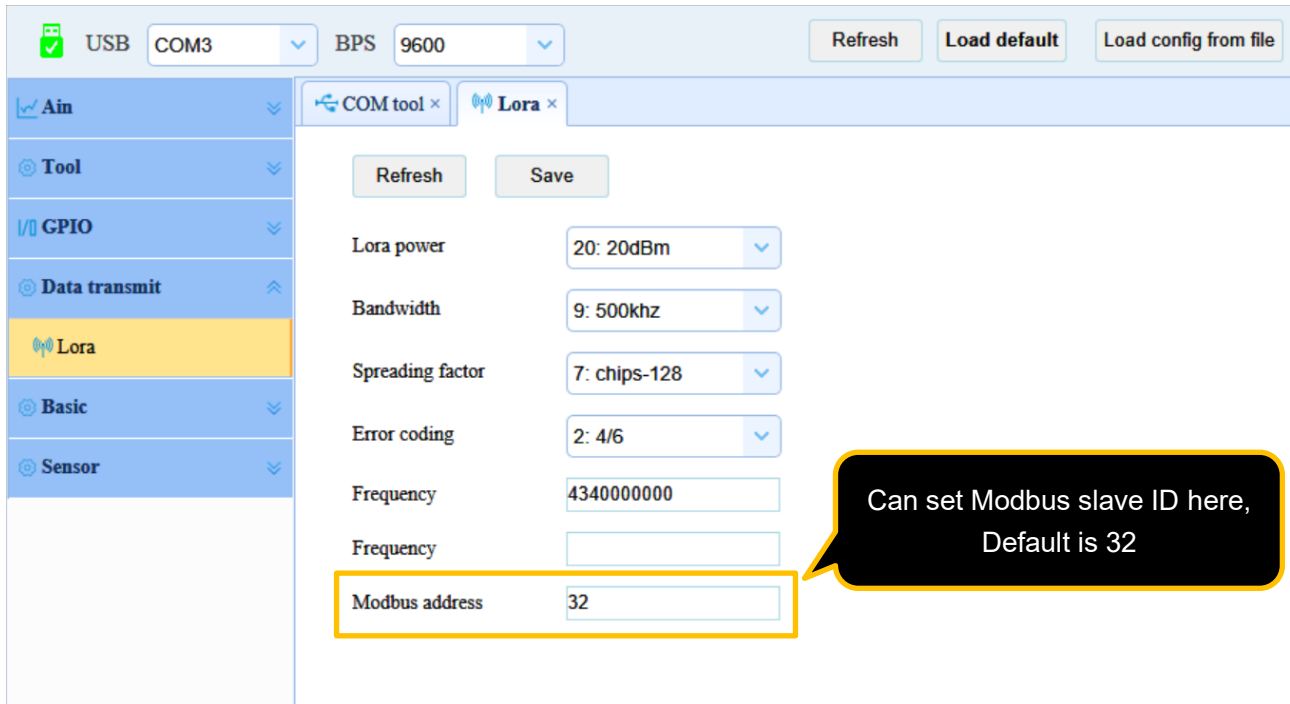
choose the correct com port and click the USB icon



## Go to setup mode



## 4 Set Modbus slave ID



USB COM3 BPS 9600 Refresh Load default Load config from file

COM tool × Lora ×

Refresh Save

Lora power 20: 20dBm

Bandwidth 9: 500khz

Spreading factor 7: chips-128

Error coding 2: 4/6

Frequency 4340000000

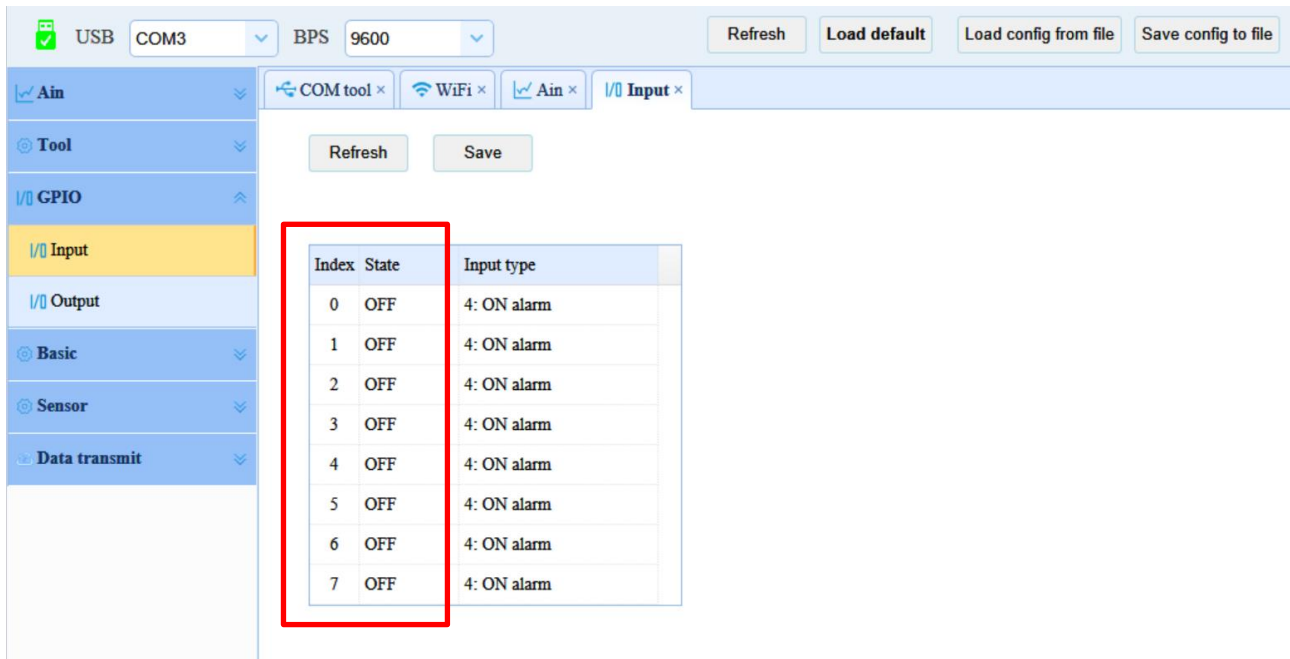
Frequency

Modbus address 32

Can set Modbus slave ID here, Default is 32

## Restart Modbus io module after setup

In "Input" page, click refresh to check digital input state



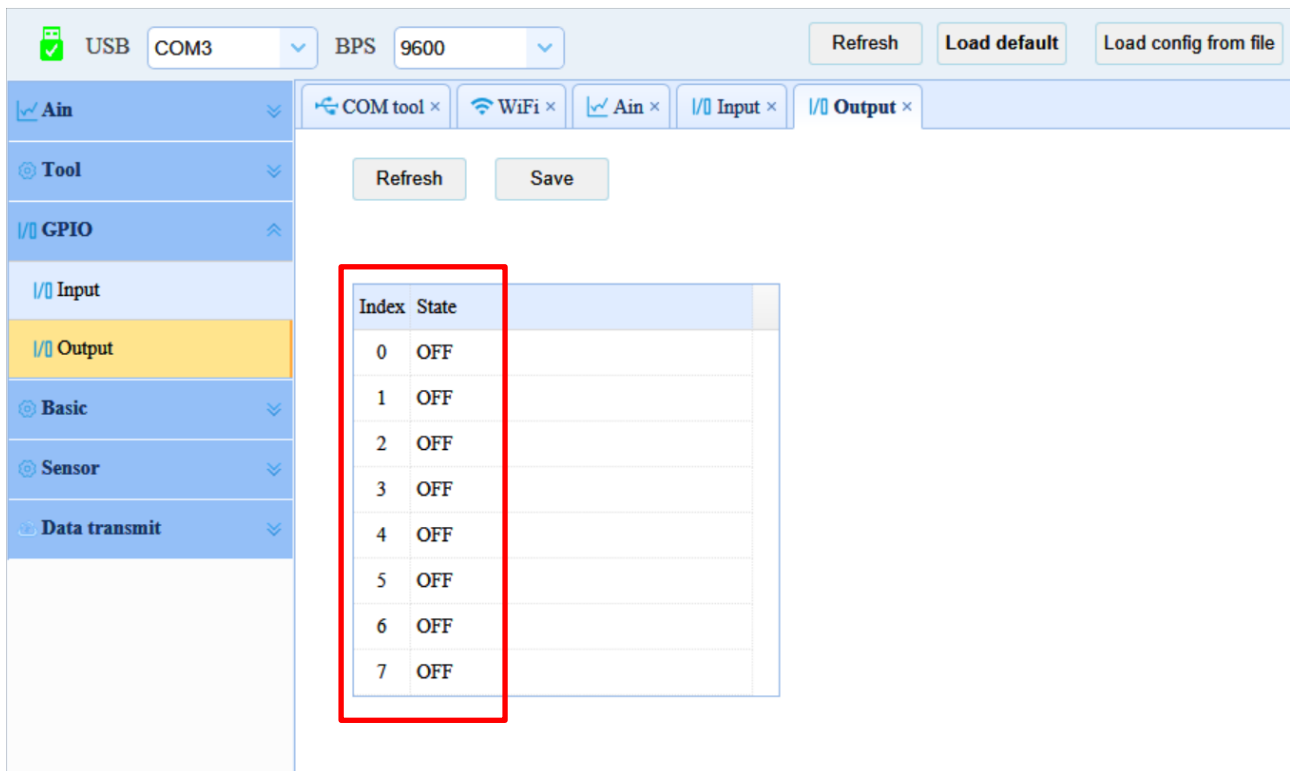
USB COM3 BPS 9600 Refresh Load default Load config from file Save config to file

COM tool × WiFi × Ain × Input ×

Refresh Save

Index	State	Input type
0	OFF	4: ON alarm
1	OFF	4: ON alarm
2	OFF	4: ON alarm
3	OFF	4: ON alarm
4	OFF	4: ON alarm
5	OFF	4: ON alarm
6	OFF	4: ON alarm
7	OFF	4: ON alarm

In “output” page, click refresh to check digital output state



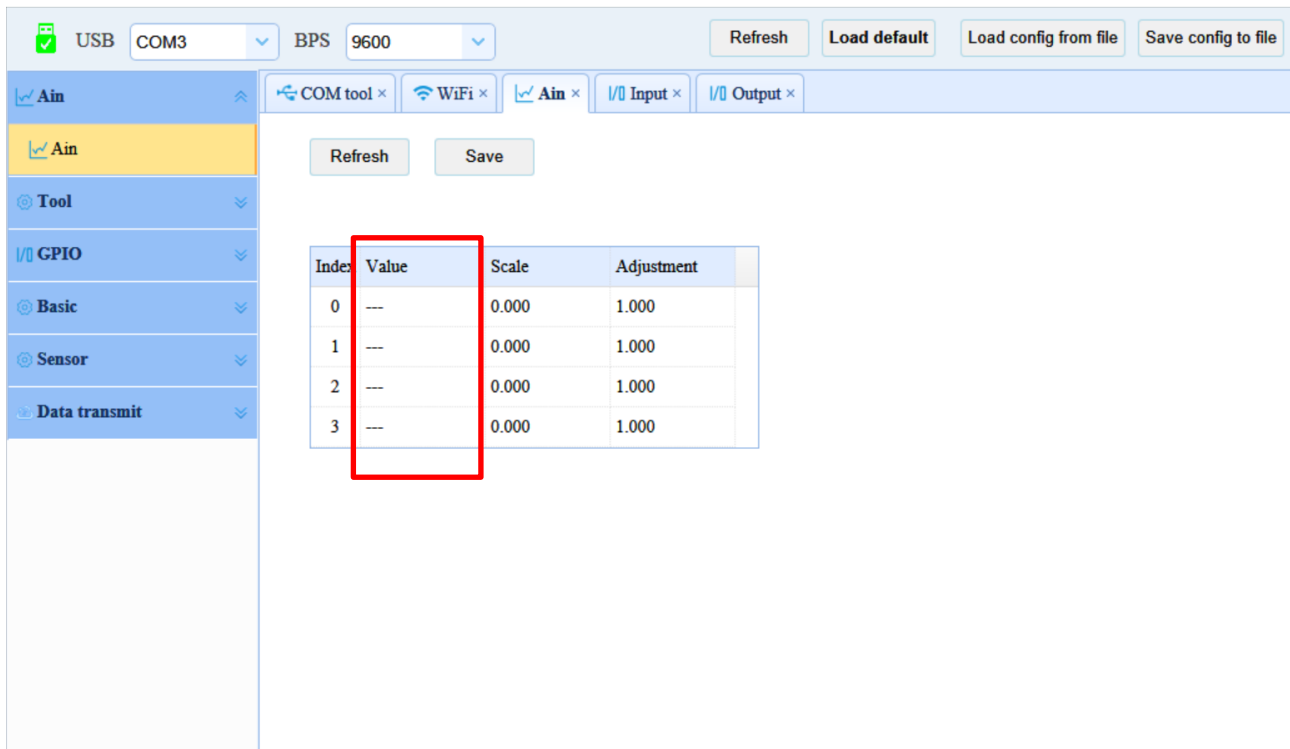
USB COM3 BPS 9600 Refresh Load default Load config from file

COM tool x WiFi x Ain x I/O Input x I/O Output x

Refresh Save

Index	State
0	OFF
1	OFF
2	OFF
3	OFF
4	OFF
5	OFF
6	OFF
7	OFF

In “Ain” page, click refresh to check analog input value



USB COM3 BPS 9600 Refresh Load default Load config from file Save config to file

COM tool x WiFi x Ain x I/O Input x I/O Output x

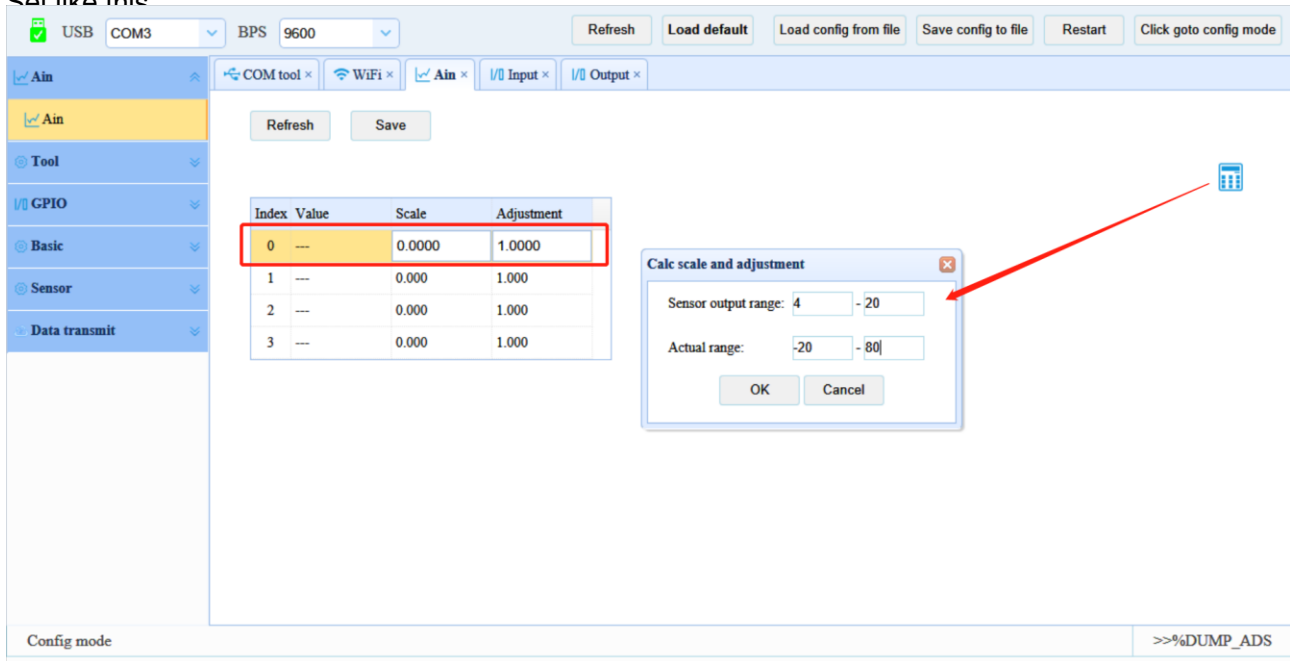
Refresh Save

Index	Value	Scale	Adjustment
0	---	0.000	1.000
1	---	0.000	1.000
2	---	0.000	1.000
3	---	0.000	1.000

converter 4-20mA to actual measure value

for example, Ai0 connects a temperature sensor, measuring range is -20°C-80°C, correspond to 4-20 mA.

Set like this



The screenshot shows the 'Ain' configuration page. A table lists the input channels with their scales and adjustments. A red box highlights the first row (Index 0). A dialog box titled 'Calc scale and adjustment' is open, showing the sensor output range (4 to 20) and the actual range (-20 to 80). A red arrow points from the dialog box to the first row of the table.

Index	Value	Scale	Adjustment
0	---	0.0000	1.0000
1	---	0.000	1.000
2	---	0.000	1.000
3	---	0.000	1.000

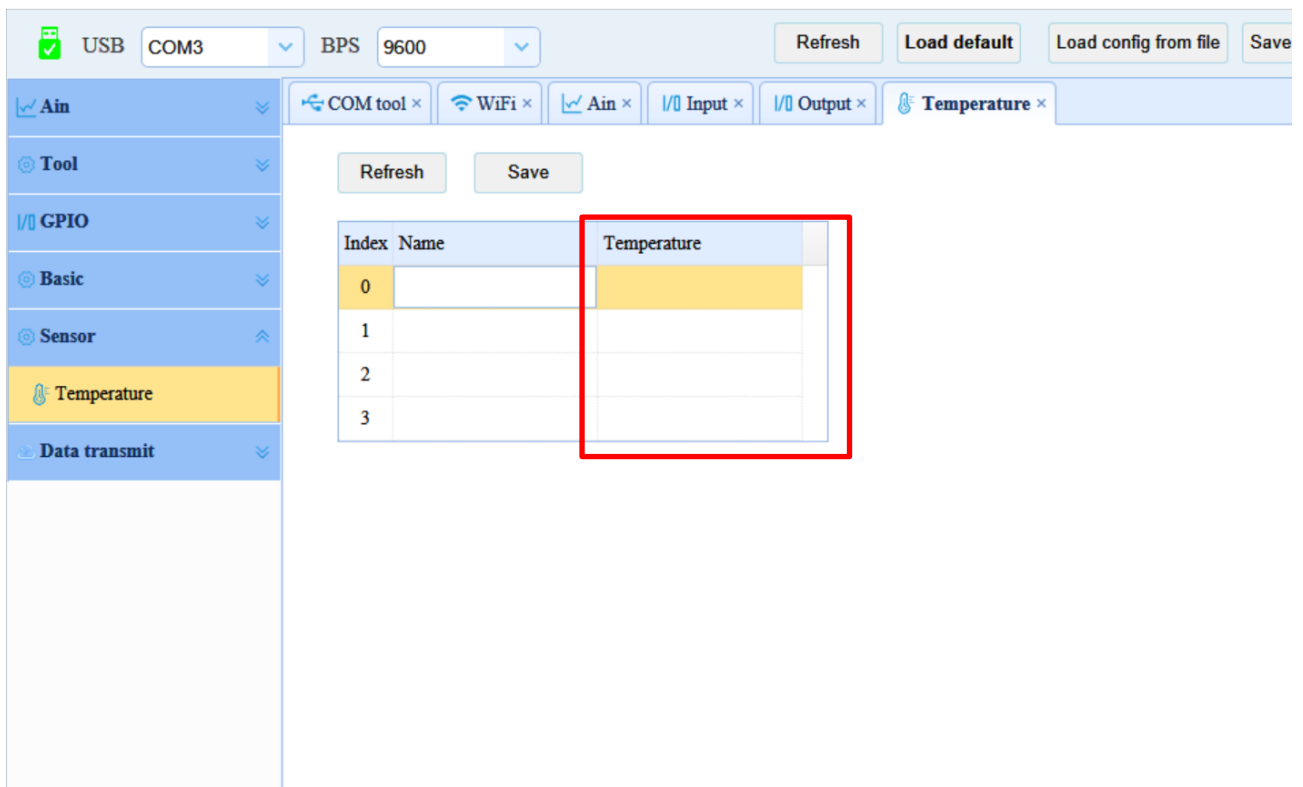
Calc scale and adjustment

Sensor output range: 4 - 20

Actual range: -20 - 80

OK Cancel

In "temperature" page, click refresh to check temperature input value



The screenshot shows the 'Temperature' configuration page. A table lists the temperature inputs. A red box highlights the first row (Index 0). The 'Name' column is empty, and the 'Temperature' column is highlighted in yellow.

Index	Name	Temperature
0		
1		
2		
3		