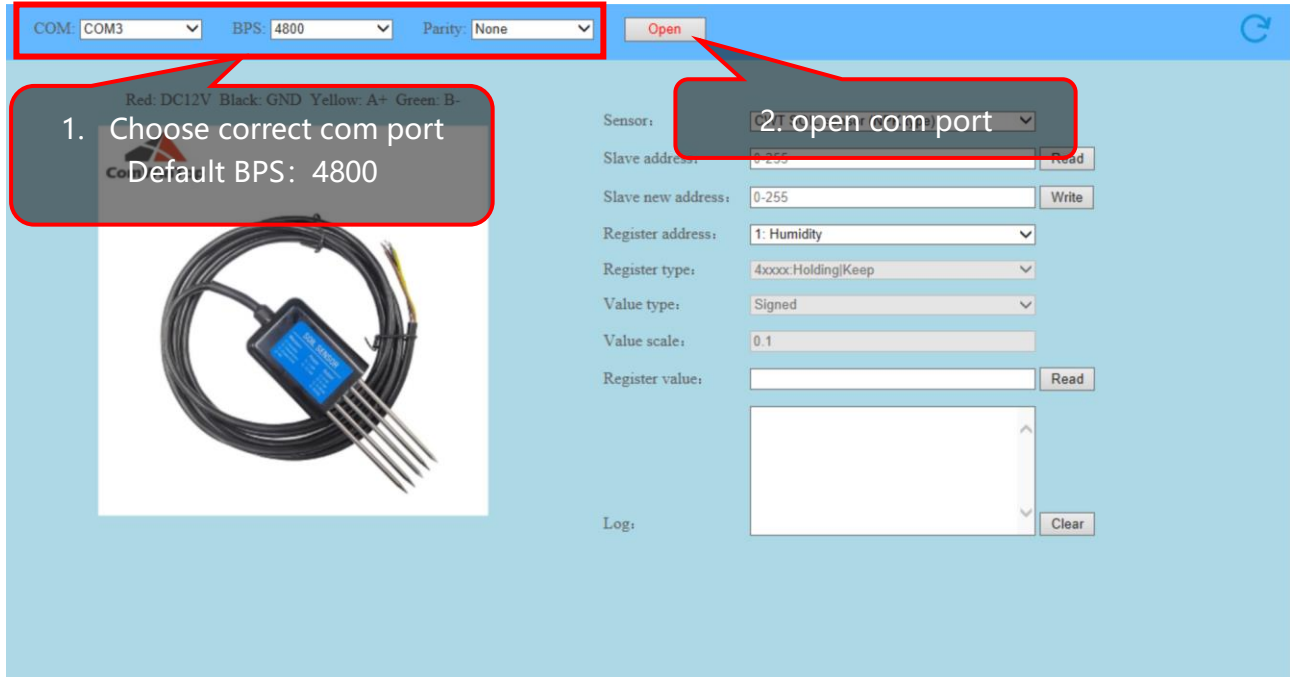


# Config tool instruction

## 1 Connect sensor

Connect sensor to PC by a RS485 to USB converter



COM: COM3 BPS: 4800 Parity: None Open

1. Choose correct com port  
Default BPS: 4800

2. open com port

Sensor: CWT SOIL sensor (NPK type)

Slave address: 1 Read

Slave new address: 0-255 Write

Register address: 1: Humidity

Register type: 4xxxx: Holding|Keep

Value type: Signed

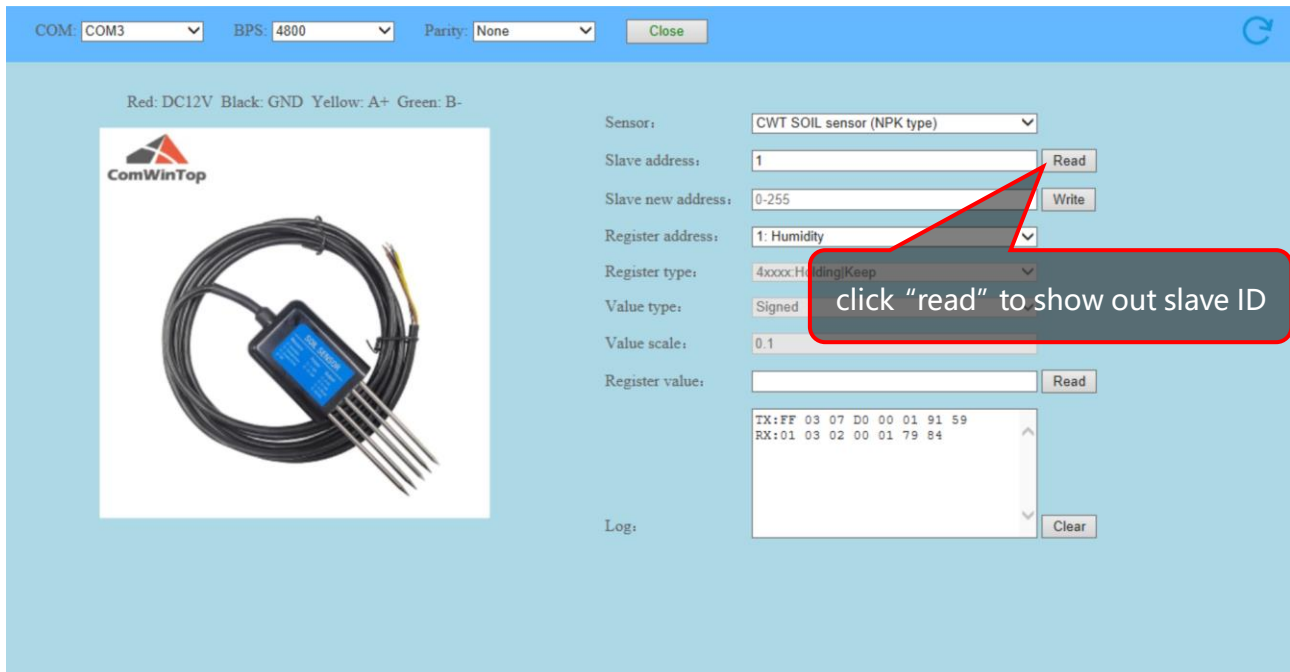
Value scale: 0.1

Register value: Read

Log: Clear

## 2 Read value

### 2.1 read ID



COM: COM3 BPS: 4800 Parity: None Close

Red: DC12V Black: GND Yellow: A+ Green: B-

ComWinTop

Sensor: CWT SOIL sensor (NPK type)

Slave address: 1 Read

Slave new address: 0-255 Write

Register address: 1: Humidity

Register type: 4xxxx: Holding|Keep

Value type: Signed

Value scale: 0.1

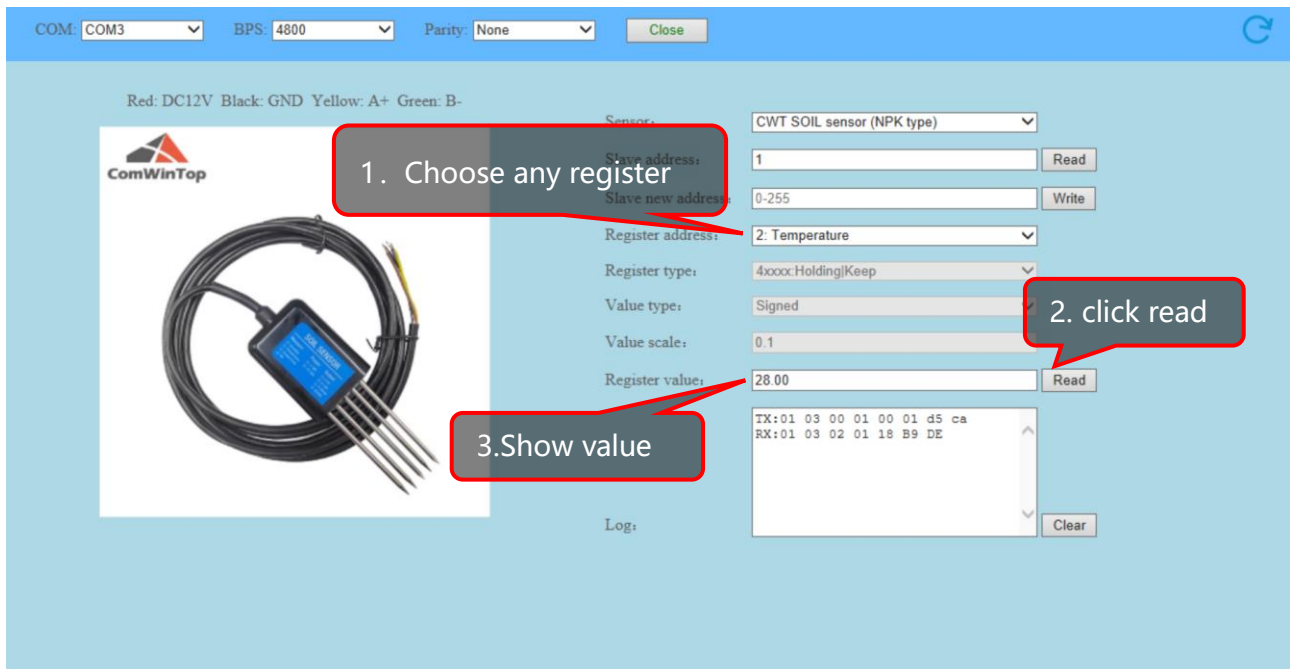
Register value: Read

Log: Clear

TX: FF 03 07 D0 00 01 91 59  
RX: 01 03 02 00 01 79 84

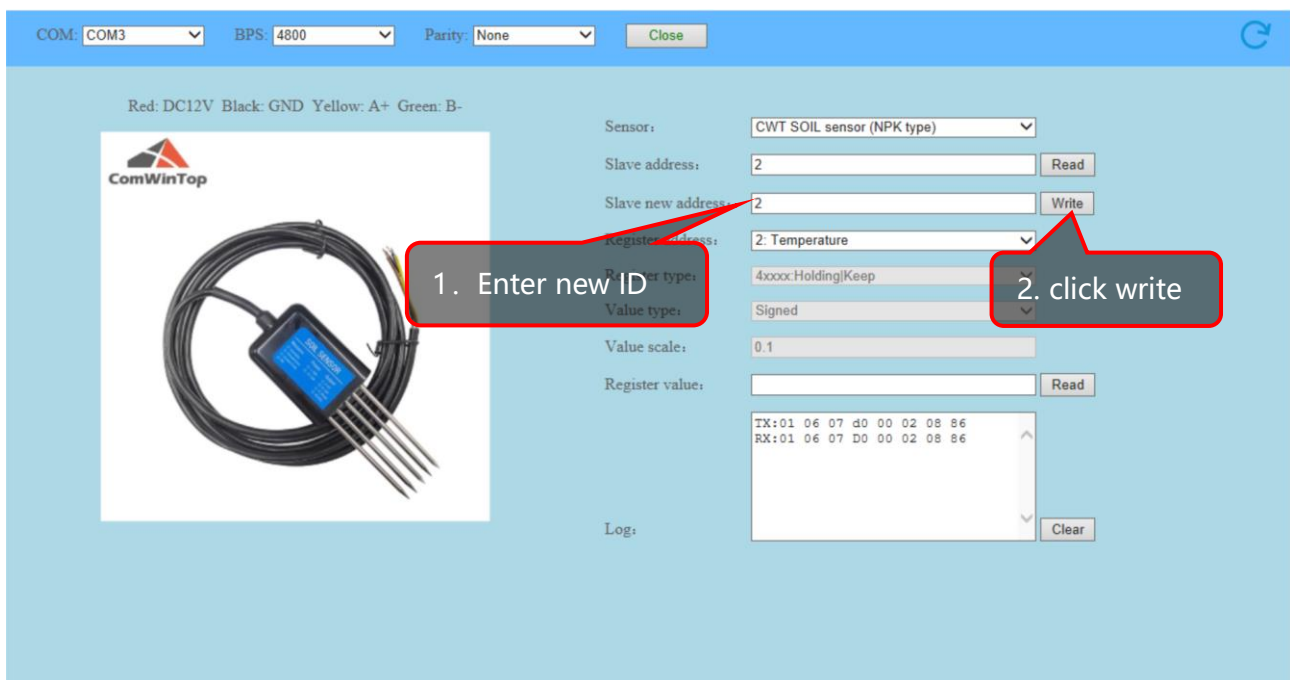
click "read" to show out slave ID

## 2.2 Read value



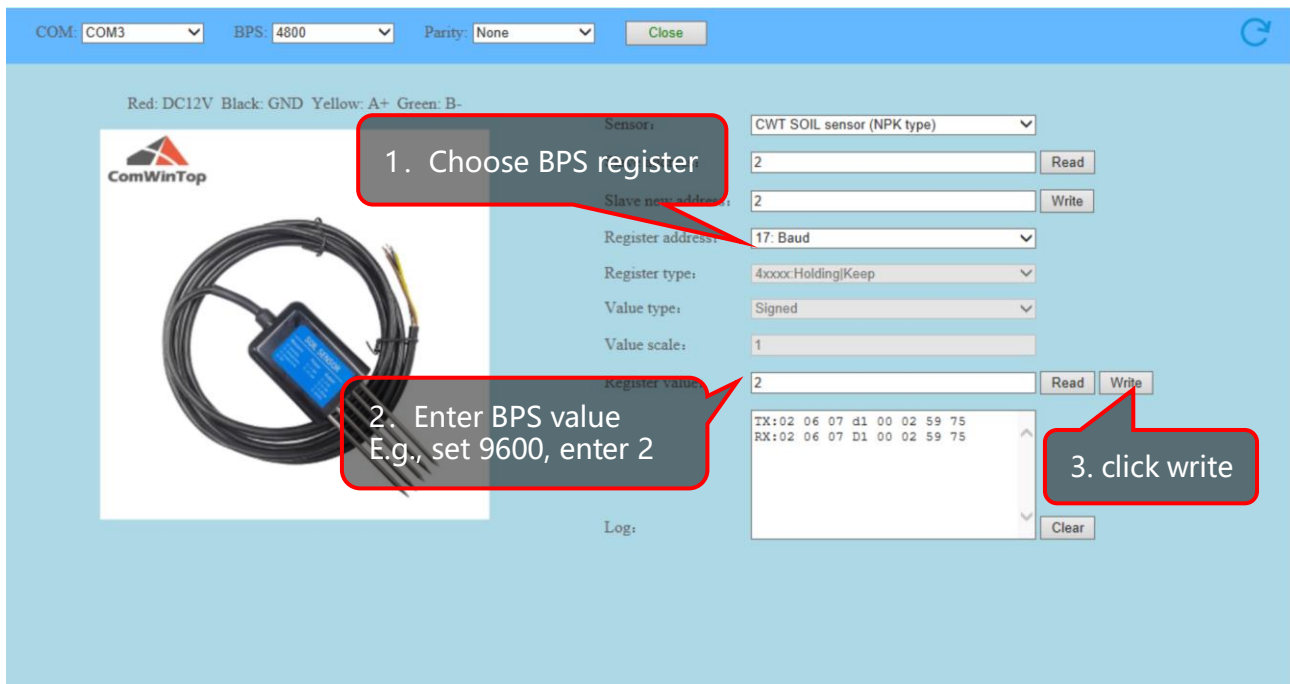
## 3 Set parameters

### 3.1 Set ID



### 3.2 Set BPS

0=2400, 1=4800, 2=9600



COM: COM3 BPS: 4800 Parity: None Close

Red: DC12V Black: GND Yellow: A+ Green: B-

Sensor: CWT SOIL sensor (NPK type)

Slave address: 2 Read Write

Register address: 17: Baud

Register type: 4xxxx: Holding|Keep

Value type: Signed

Value scale: 1

Register value: 2 Read Write

TX: 02 06 07 d1 00 02 59 75  
 RX: 02 06 07 d1 00 02 59 75

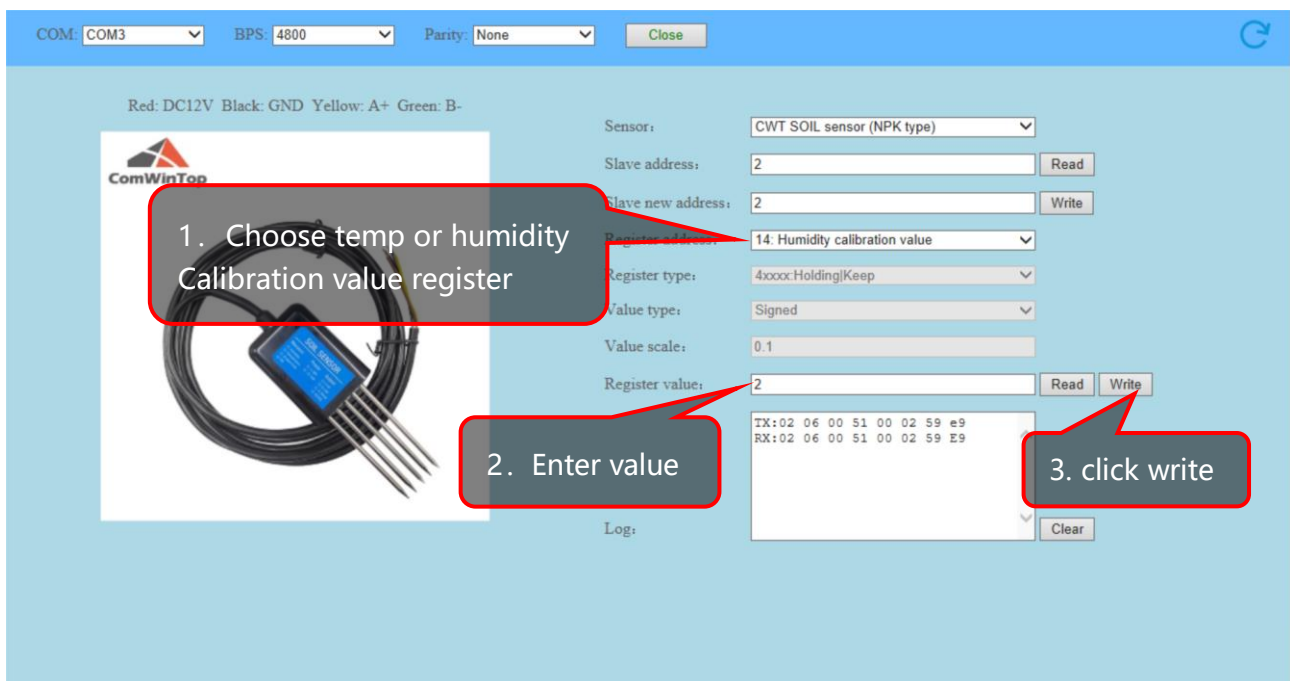
Log: Clear

1. Choose BPS register

2. Enter BPS value  
 E.g., set 9600, enter 2

3. click write

### 3.3 Set temperature or humidity calibration value



COM: COM3 BPS: 4800 Parity: None Close

Red: DC12V Black: GND Yellow: A+ Green: B-

Sensor: CWT SOIL sensor (NPK type)

Slave address: 2 Read Write

Slave new address: 2 Write

Register address: 14: Humidity calibration value

Register type: 4xxxx: Holding|Keep

Value type: Signed

Value scale: 0.1

Register value: 2 Read Write

TX: 02 06 00 51 00 02 59 e9  
 RX: 02 06 00 51 00 02 59 E9

Log: Clear

1. Choose temp or humidity Calibration value register

2. Enter value


3. click write

Output value=actual value + calibration value

### 3.4 Write N

COM: COM3 BPS: 4800 Parity: None Close

Red: DC12V Black: GND Yellow: A+ Green: B-



Sensor: CWT SOIL sensor (NPK type)

Slave address: 2 Read

Slave new address: 2 Write

Register address: 5: Nitrogen content

Register type: 4xxxx: Holding/Keep

Value type: Signed

Value scale: 1

Register value: 5 Read Write

TX: 02 06 00 04 00 05 08 3b  
RX: 02 06 00 04 00 05 08 3B

Log: Clear

1. Choose Nitrogen register

2. Enter value

3. click write