

# D0201 Parking Occupation Sensor

## Configuration Manual\_NB-IoT

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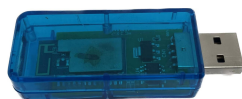
**Version: 1.0**

## 1 Modify D0201 Configuration

This document describes how to modify the parameters of the D0201 sensor through the bluetooth, such as upload time, APN, and so on.

### 1.1 Required tools

- Bluetooth tool, as shown in figure,
- Serial software
- D0201 Sensor



Bluetooth tool



Serial software

Note: If you have other COM software, you can also use it.

### 1.2 Connect bluetooth to PC

Connect bluetooth tool to PC USB interface.

### 1.3 Serial software setting

COM Num.: You can check the port number used in "Device Manager -> Port" on your computer

Baudrate: 115200

Parity bit: NONE

Data bit: 8

Stop bit: 1

**Note:** Do not select the "Receive Options: hex" option.  
As shown in Figure 1.1:

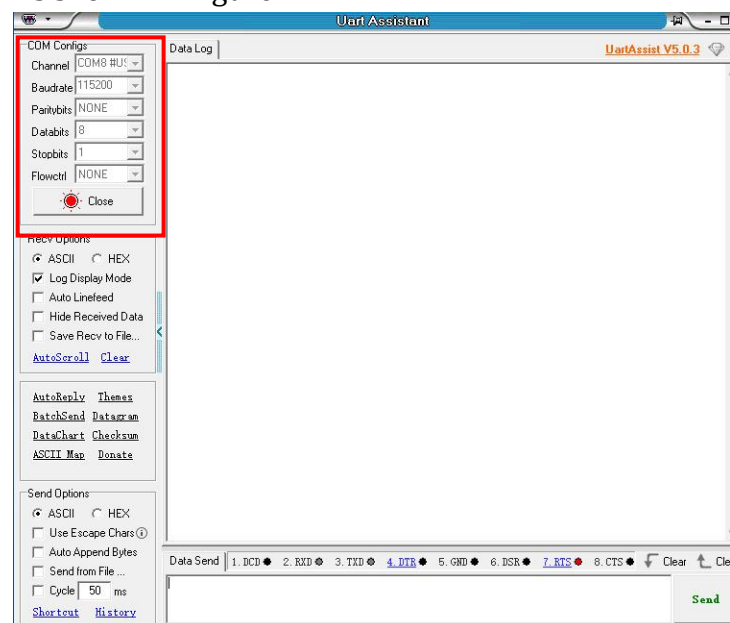


Figure 1.1 Uart assist configuration

## 1.4 Reset the DO201 sensor

Reset the DO201 sensor by magnet, wait 10s, then it will auto connect to the bluetooth. And user can see the DO201 sensor's information, as shown in Figure 1.2. Then you can send the command to modify the configuration.

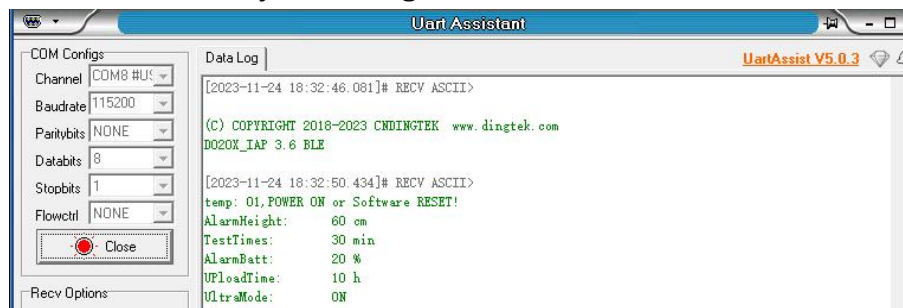


Figure 1.2 after reset

## 1.5 Send command

When the serial port starts to output DO201 sensor's information, you can send command in ASCII before enter sleep. If the configuration is successful, you can receive a reply from sensor.

**For example:**

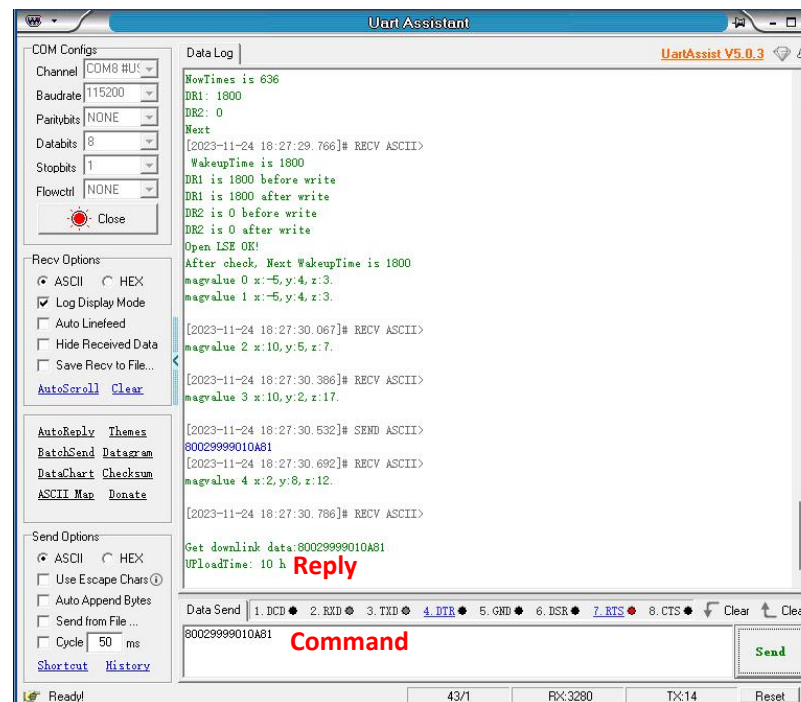
Note: The following commands are reference examples, please refer to the product protocol documentation for a more detailed description of the commands.

### Example 1 Configure the periodic upload interval to 10h

Command in ASCII: **80029999010A81**

Reply from sensor: **UPLoadTime: 10 h**

Note: The reply means modify this configuration successfully.



## Example 2 Modify APN to CMNET, no username, no password

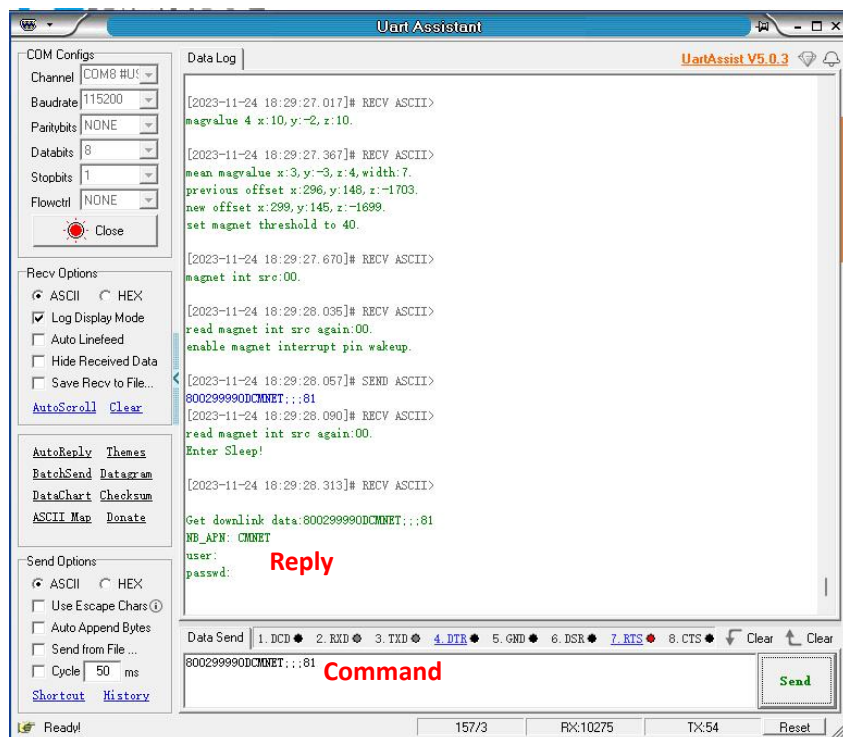
Command in ASCII: **800299990DCMNET;;81**

Reply from sensor: **NB\_APN: CMNET**

**user:**

**passwd:**

**Note:** This APN is for reference only. Please confirm the correct APN with your operator and set it to the DO201 sensor.



## Notes:

1 After the DO201 sensor enters the sleep status, it cannot receive any command; Please restart it by magnet and send the command again.

2 Default bluetooth mode is turned off. So it only can be configured after reset. If turn on the bluetooth mode, it will show all the log at cycle upload time, cycle detection time, or when occurs trigger events.

3 If Bluetooth mode is turned on, power consumption will increase. It is recommended to turn off Bluetooth mode on site.

4 Please configure the DO201 sensor one by one. All devices share one Bluetooth host. If multiple devices are restarted at the same time, it may not be possible to distinguish which sensor is configured.