

# RD07 (LoRa Gateway) and TAG11 (LoRa Temperature Sensor)

## User Guide

### 1. RD07 2G/4G lora gateway use steps:

#### 1.1 Insert the SIM card.



#### 1.2 Install the RF and GSM antenna. Connect the device with the power supply.



#### 1.3 Turn on the device. (Left-on, right-off)



#### 1.4 The machine starts working when three LED lights flash at the same time. The data is default to be sent to Tzone temperature and humidity monitoring cloud platform automatically.

Note: If your SIM card is designated to be the one SIM card operator, please configure the device with command below to set its APN. If the APN is configured successfully, the data will be sent to TZONE platform.

Command format	Note
*000000,011,APN,Username,Password#	APN: must < 28 characters, Username: must < 28 characters, Password: must < 28 characters, If there is no username or password, please left it blank. For example: *000000,011,CMNET,,#)

The status of LED light flashing:

**Blue** light: The light will be on for 0.1 second if the data received.

**Green** light: If login GSM network, the light will be on 0.1 second and off 2.9 seconds

If login GPRS network, the light will be on 0.1 second and off 0.9 seconds

**Red** light: No power supply connected, the light will be on every 2 seconds. If the power supply is

connected, the light will be always on.

## 2. RD07\_WiFi (LoRa gateway) use steps:

2.1 Install the RF and GSM antenna. Connect the device with the power supply.



2.2 Turn on the device. (Left-on, right-off), The machine starts working when three LED lights flash at the same time.



2.3 The machine defaults is LAN transfer mode, please connect the LAN with your network, the data is default to be sent to Tzone temperature and humidity monitoring cloud platform automatically.

The status of LED light flashing:

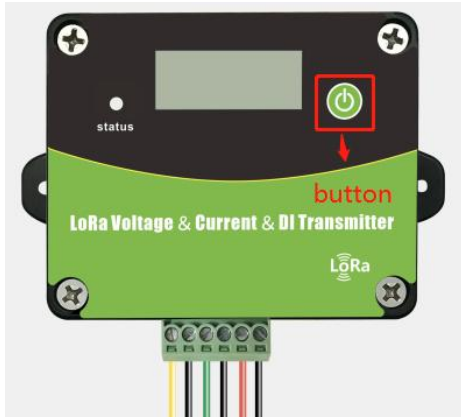
**Blue** light: The light will be on for 0.1 second if the data received.

**Green** light: When the reading is sent to the platform successfully, the LED will blink once for 2 seconds.

**Red** light: No power supply connected, the light will be on every 2 seconds. If the power supply is connected, the light will be always on.

## 3. TAG11 use steps:

3.1 Please press and hold the button for 3 seconds, the LED will be on with green for 3 seconds and the LCD will display values.



3.2 Follow the steps to set up the Lora gateway, TAG11 does not need to do any other settings, it is already powered on by default, and will automatically send a piece of data to the Lora gateway every 15 minutes, if you want to send data to the gateway quickly, you can directly press the button for one second;

#### 4. View data:

T-open platform: Quick view of data

Query website: <http://t-open.tzonedigital.cn>

Query type: TAG11

You can query sensor data by outputting the sensor ID in SN

#	ServerTime	SN	IMEI	RTC	Voltage	Current	Switch	VBV	RSSI	TagStatus	HardwareType	FirmwareVersion	Serial
108278	2022/07/07 12:22:27	80000002	862057044207055	2022/07/07 12:20:33	0V	11.2mA	OFF	3.64V	-63dBm	00011000			746
108276	2022/07/07 12:07:45	80000002	862057044207055	2022/07/07 12:05:33	0V	11.2mA	OFF	3.64V	-63dBm	00011000			735
108273	2022/07/07 11:52:59	80000002	862057044207055	2022/07/07 11:50:33	0V	11.2mA	OFF	3.64V	-63dBm	00011000			713
108270	2022/07/07 11:37:04	80000002	862057044207055	2022/07/07 11:35:33	0V	11.2mA	OFF	3.64V	-64dBm	00011000			697
108267	2022/07/07 11:22:38	80000002	862057044207055	2022/07/07 11:20:33	0V	11.18mA	OFF	3.64V	-64dBm	00011000			683
108264	2022/07/07 11:08:07	80000002	862057044207055	2022/07/07 11:05:33	0V	11.2mA	OFF	3.64V	-63dBm	00011000			668
108261	2022/07/07 10:51:45	80000002	862057044207055	2022/07/07 10:50:33	0V	11.21mA	OFF	3.64V	-63dBm	00011000			654
108258	2022/07/07 10:37:44	80000002	862057044207055	2022/07/07 10:35:33	0V	11.22mA	OFF	3.64V	-64dBm	00011000			638
108255	2022/07/07 10:22:55	80000002	862057044207055	2022/07/07 10:20:33	0V	11.24mA	OFF	3.64V	-63dBm	00011000			624
108252	2022/07/07 10:06:32	80000002	862057044207055	2022/07/07 10:05:33	0V	11.26mA	OFF	3.64V	-63dBm	00011000			609
108249	2022/07/07 09:53:05	80000002	862057044207055	2022/07/07 09:50:33	0V	11.28mA	OFF	3.64V	-65dBm	00011000			596
108246	2022/07/07 09:37:42	80000002	862057044207055	2022/07/07 09:35:33	0V	11.31mA	OFF	3.64V	-63dBm	00011000			581
108236	2022/07/07 09:22:36	80000002	862057044207055	2022/07/07 09:20:33	0V	11.34mA	OFF	3.64V	-64dBm	00011000			569
108234	2022/07/07 09:06:09	80000002	862057044207055	2022/07/07 09:05:33	0V	11.38mA	OFF	3.64V	-65dBm	00011000			546
108231	2022/07/07 08:51:55	80000002	862057044207055	2022/07/07 08:50:33	0V	11.43mA	OFF	3.64V	-68dBm	00011000			532
108228	2022/07/07 08:36:42	80000002	862057044207055	2022/07/07 08:35:33	0V	11.51mA	OFF	3.64V	-63dBm	00011000			518

Note: It is recommended to select and query data for 1~2 days at a time, and query data for up to 7 days at a time