

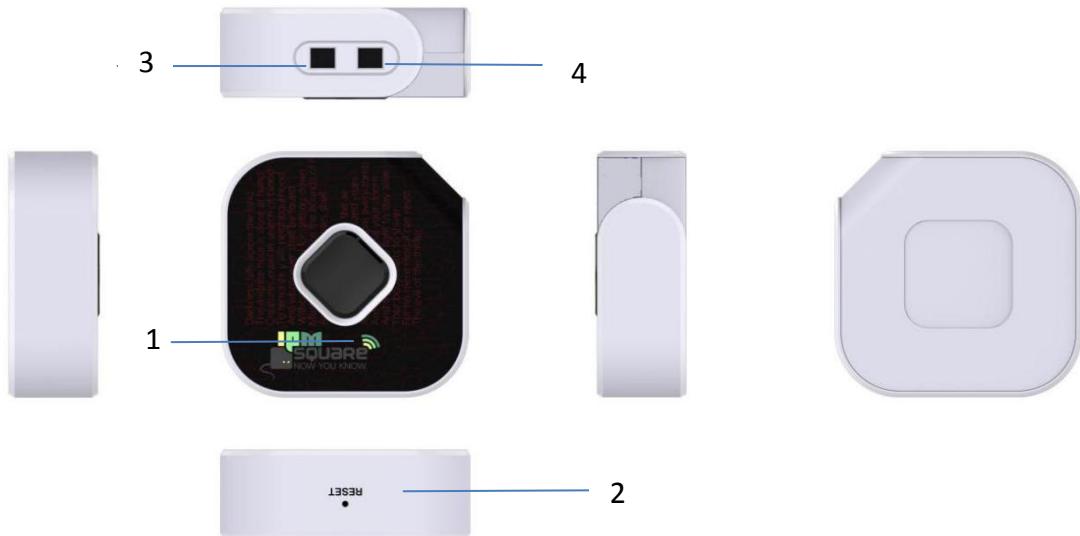
# EPM002 User Manual

## 1, Main functions

1. Timed send sensor status and battery power to specified server every day;
2. Send information to the server via button or sensor detection;
3. Send message to the server actively if battery in low power;
4. Through cell phone app to configure WIFI network, device registration (registered on app to get device number), language;
5. The server support HTTP protocol.

## 2, Product structure and device specifications.

1. Product outlook



(1) Main button

(2) Reset hole

(3) Interface 1

(4) Interface 2

## 2. Introduction for button and interfaces

Name	Function
Main Button	Without Wi-Fi configuration and in Standby mode, short press one time to wake up the device, don't send information.
	After Wi-Fi configuration and in standby mode, short press to wake up device, send current status and battery power to server.
	Press and hold for 5 seconds to enter AP mode, configure WIFI manually

Reset hole	Restore the factory settings through the main button + reset hole. In any status, firstly press and hold the "main button", and then press the "reset hole" and release.
Interface	For connection with sensor

### 3. Detailed description for work status

#### (1) Standby mode

- a. Short press main button, di sound one time, red light flash 90 seconds, if there isn't any operation within 90 seconds, device will enter standby mode after di-di sound 3 times
- b. Press and hold main button for 5 seconds to enter AP mode, if there isn't any operation within 90 seconds, device will enter standby mode after di-di sound 3 times.
- c. After waked up the device, red light flash 3 times, at same time buzzer sound 3 times, then go to standby mode.

#### (2) Configure Wi-Fi:

Hold main button, start with one short di sound, red light is on, hold for 5 seconds with short 2 di sound, waiting Wi-Fi configuration, connect with cell phone wifi in the cell phone setting via SSID:SQUARE-XXXXX, Password: 12345678. After wifi connection succeed, open the cell phone APP to input and set parameters (SSID, Password, time, serial, sensor), then reboot the device to save these setting, after reboot the red light will flash. If set parameters successfully the red light is on and buzzer sound "di" 3 times, then go to standby mode. If set parameters failed the red light flash for 90 seconds, then go to standby mode after di-di sound 3 times, and red light goes off.

#### (3) Sending message:

##### a、 Button trigger.

After Wi-fi configuration succeed, when the device is in the stand by mode, short press main button, buzzer give short di sound, red light flash 3 times. Then buzzer give 3 di sound, the red light goes off, at the same time sending sensor status and batter power to server.

##### b、 Sensor trigger

After Wi-fi configuration succeed, when the device is in the stand by mode, when sensor detect the status change, buzzer give short di sound, red light flash 3 times. then buzzer give 3 di sound, the red light goes off, at the same time sending sensor status and batter power to server.

##### c、 Time-up message sending

Timed-up to send sensor status and batter power.

##### d、 Low power alert

When the batter have low power, actively send alert message to server to notify the management

## 3, Device serial number:

Combined by 10 digits, the 1<sup>st</sup> one is the device no., the 2<sup>nd</sup> one & the 3<sup>rd</sup> one is the month, the 4<sup>th</sup> one and the 5<sup>th</sup> one is the year, the last 5 digits are 00001-99999.

## 4, Reset

In any status, firstly press and hold the "main button", and then press the "reset button" and release,  
the buzzer always sound for 3 seconds and the red light is on for 3 seconds which means that the factory reset is successful. Finally release the "main button". (Except serial number, other configuration parameters will be restored to the default value)

## 5, FCC Alert notification

FCC ID: 2AGEVEPM002

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device is acting as slave and operating in the 2.4 GHz (2412 ~2462 MHz) band.

Ad Hoc function is supported but not able to operate on non-US frequencies.

Do not use the device with the environment which below minimum -30 °C or maximum over 50°C .

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of

the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

RF exposure warning :

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.