

# Zigbee Remote PSR05



The Remote PSR05 is a simple control can controls 8 groups scene, based on Zigbee technology.

It is the Zigbee product, it support the security, OTA... Those newest features of the Zigbee technology. Zigbee is a wireless communication protocol designed for home automation, specifically to remotely control applications in residential and light commercial environments. The technology uses a low-power RF radio embedded or retrofitted into home electronics devices and systems, such as lighting, home access control, entertainment systems and household appliances.

## CAUTION

- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas

The marking information is located at the bottom of the apparatus.

## Specification

Rated	DC3.7V Lithium rechargeable battery
Charger Voltage	5Vdc from Micro USB
RF distance	Min. 40M indoor, 100M outdoor line of sight,
Frequency Range	2405MHz~2480MHz
RF Maximum Power	+5dBm
Location	Indoor use only
Operation temperature	-10 to 45° C
Humidity	95% RH max
Dimension	110(L) x 110(W) x 19(H) mm

✧ **Specifications are subject to change and improvement without notice.**

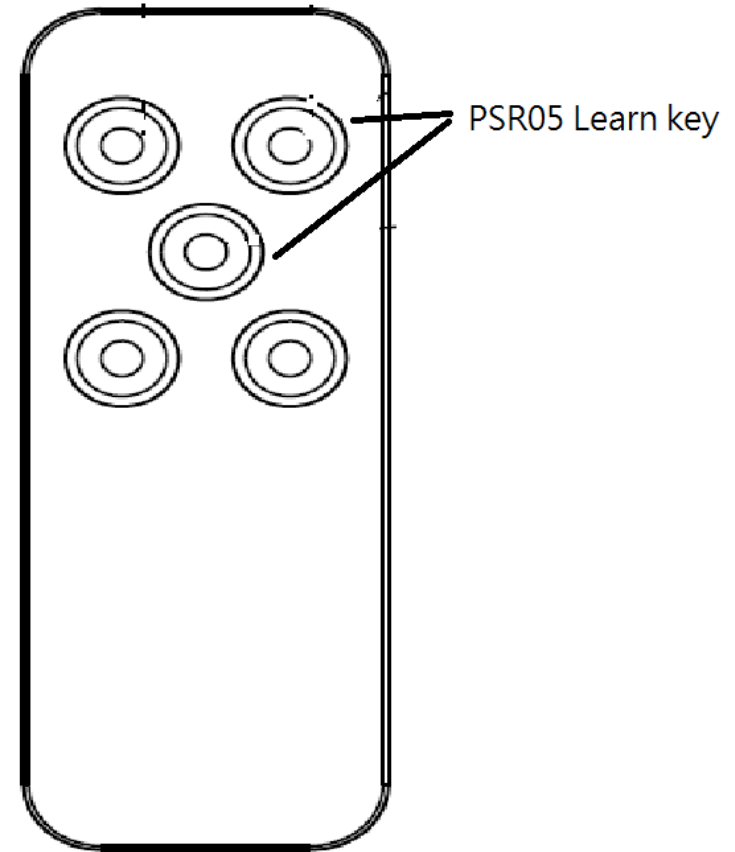
## Troubleshooting

Symptom	Cause of Failure	Recommendation
The device can not join to Zigbee network	The device may in a Zigbee network.	Reset the device then include again.

For Instruction to [http:// www.philio-tech.com](http://www.philio-tech.com)



## Overview



## Adding to Z-Wave™ Network

There are two tamper keys in the device, one is in the back side, another is in the front side. They have the same function. Both of them can joining network, reset from Zigbee network.

In the first time, add the device into the Zigbee network. First, make sure the primary controller is in the inclusion mode. And then power on the device, just take out the insulation Mylar in the back side of the device. The device will auto start the try joining network mode. And it should be included in 120 seconds. You will see the LED light ON one second.

### \* Joining network:

1. Have Zigbee Controller entered inclusion mode.
2. Hold down the central key, then press the top-right key three times within 1.5 seconds to enter the add mode.

### \* Reset to default:

1. Hold down the central key, then press the top-right key four times within 1.5 seconds and do not release the top-right key in the 4<sup>th</sup> pressed, and the LED will light ON.
2. After 3 seconds the LED will turn OFF, after that within 2 seconds, release the keys. If successful, the LED will light ON one second. Otherwise, the LED will flash once.
3. IDs are remove and all settings will reset to factory default.

## Zigbee IAS-ZONE

While the device is associated with a Zigbee network:

- The PSR05 will try to find the CIE and ZCL ALARM client.

- When press the button the device will send scene function number. PSR05 will send "ZCL Alarm command" to Alarm and CIE client.

## Function Control

PSR05 has five keys on the device. The central one has group-button switching and special function, the others are control keys.

There are two group-buttons that can be switched by pressing central key. When the device is switched to group-button 1, LED will light on with red color for 3 seconds. When the device is switched to group-button 2, LED will light on with green color.

### \* Scene Control

The device is in group-button 1, When press the button the LED will light the red color. The device is in group-button 2, When press the button the LED will light the green color.

Scene Control	
	Group-Button 1
Key: Top-left Command: 0x01	
Key: Top-right Command: 0x02	
Key: Bottom-left Command: 0x03	
Key: Bottom-right Command: 0x04	
	Group-Button 2

Key: Top-left Command: 0x05
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Key: Top-right Command: 0x06
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Key: Bottom-left Command: 0x07
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Key: Bottom-right Command: 0x08
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## Zigbee Message Report

### \* Low Battery Report:

When the battery level is too low, than press the button, the device will report the trigger event and also report the battery status.

Alarm (Cluster ID : 0x0009)
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AlarmCluster : 0x0001 AlarmCode : 0x01
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## Activate the power

The device can not work normally in the first time. Please activate the battery through micro USB before the first use. After the device is activated by connecting to micro USB, the device will start charging and LED will light on with red color. If the battery is full charged, LED will light on with green color.

When device is charging, it will send Wake Up Notification to controller minutely.

### \* Battery Power Check

When any keys around the central key is pressed, the device will check the battery power. If the power level is too low, the red LED will flash once after pressing. Please charge the device through micro USB immediately.

### \* Network State Check

When the power on, the device will check the network state. If the device join network , the LED will steady off. If doesn't, The LED will flash in every second and continue 30 seconds.

### \* Try joining network

When the power on, the device will check is it already adding to the network? If doesn't, it will auto start the joining network mode. Until timeout or the device joined network.

## Over The Air (OTA) Firmware Update

The device support the Zigbee firmware update via OTA.

Before starting the procedure, please remove the front cover of the device. Otherwise the hardware check will be failed.

The Device will find the OTA server in the network. The OTA server will provide the necessary information to device. The device will decide if the OTA is necessary.

## Disposal



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Company of License Holder : Philio Technology Corporation  
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[www.philio-tech.com](http://www.philio-tech.com)

## FCC Interference Statement

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 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## Warning

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

警語:

「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」