



## Philio PSR04 Smart Color Button User Manual

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**Philio PSR04 Smart Color Button**



This device is a multiple functions button switch. It is able to switch the appliances on/off or adjust the percentage of dimmer. It can also work as a timer. The well designed wall bracket and magnetic back let the switch can be fixed on the wall. This product can be included and operated in any Z-Wave™ network with other Z-Wave™ certified devices from other manufacturers and/or other applications.

**Note:**

Please provide a 5 VDC voltage through Micro USB Port to wake the device up before the first using. The rotation function and timer functions work only when the device is fitted upright or stick on the wall or the device will only work as on/off switch when fitted horizontal.

**CAUTION**

- replacement of a battery with an incorrect type that can defeat 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**

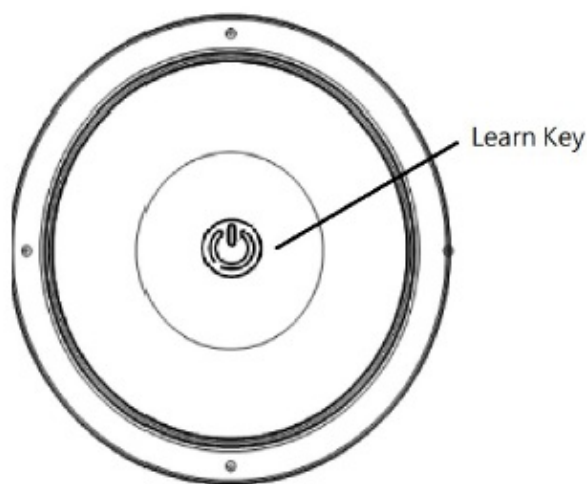
Specifications are subject to change and improvement without notice.

**Troubleshooting**

For Instruction to <http://www.philio-tech.com>



## Overview



## Z-Wave Network Setting Up

In the first time, add the device into the Z-Wave™ network. Make sure the primary controller is in the add mode. And then power on the device through micro USB. The device will auto start the NWI (Network Wide Inclusion). Red LED will flash every second and continue 30 seconds. And it should be included in 5 seconds. Red LED will light ON one second. Rotating to area A (shown in Fig. 1) and touch 3 times can abort NWI mode. There is a touch button on the front side. The button carries out manual inclusion, exclusion and reset to default.

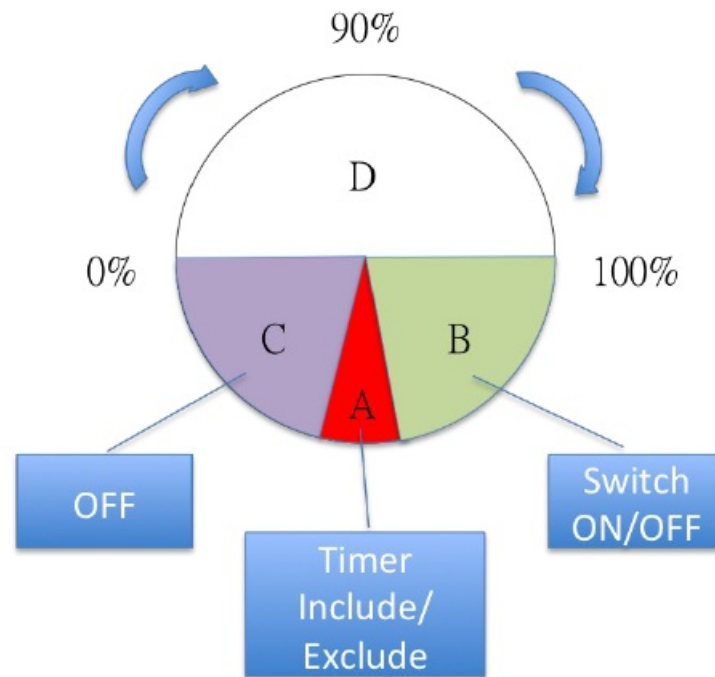
1. Include: Pointing the arrowhead to area A first (shown in Fig. 1). Pressing the button three times within 1.5 seconds. The red LED will light up for 1 second if succeed.
2. Exclude: Pointing the arrowhead to area A first. Pressing the button three times within 1.5 seconds.
3. Reset to default: Pointing the arrowhead to area A first. Press the button four times within 2 seconds and hold at fourth. The red LED will light for 3 seconds, and release the button within 2 seconds while the LED goes out. The LED will flash for 1 second if the reset succeeds, or LED will flash once.

**Notice:** Including a node ID allocated by Z-Wave™ Controller means “Add” or “Inclusion”. Excluding a node ID allocated by Z-Wave™ Controller means “Remove” or “Exclusion”.

## Function

This device can control dimmers in group 2 using three ways: Dimmer, Timer, and On/Off Switch. Point the arrowhead to area A (shown in Fig. 1 and Fig. 2) then hold the button, and release after the red LED go out. One beep means entering Timer mode or two beeps means entering Dimmer mode. The device can switch to On/Off Switch mode automatically when fitting horizontal.

## Dimmer



This device is able to set dimmer levels by rotating to different angles. When the status is Off, the surround LED will not work except in area A (shown in Fig. 1). Rotate the device to area B, C, D (shown in Fig. 1) then touch the button can set the status to On. After a short beep, the surrounding LED will change gradually from blue to red in area D. It will send Basic set command automatically 1 second after rotating stop. To turn Off the device in group 2, you can rotate PSR04 to area C or touch the button again.

## Timer

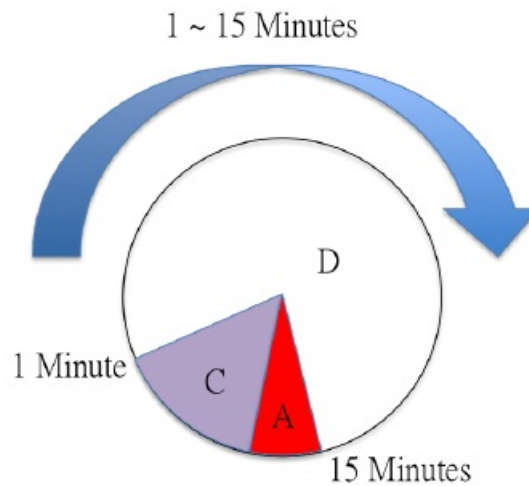


Figure 2

This mode can time the length of turning Off the light. The length is up to 15 minutes. When counting down starts, the surround LED will flash and the buzzer will sound according to the remaining time. Rotating to area C can cancel counting down directly.

**Note:** Buzzer in timer mode can be disabled by setting Configuration NO. 25 bit 1 to 1.

## On/Off Switch

This device is able to work as an On/Off switch by sending a Basic set according to configurations NO.1 and NO.2

when fitting horizontally.

### Association

This device supports 2 association groups and every group has eight-node support. To build/disable association between devices,

1. Have the Z-Wave controller entered association mode.
2. Rotate PSR04 to area A then press the button three times within 1.5 seconds. Group 1 is for receiving the report message, like the battery level. Group 2 is for light control, the device will send the Basic Set command to this group.

### Timing Report

The device supports the timing of unsolicited report of the status.

- **Battery level report:** Every 6 hours report once in default. It could be changed by setting configuration NO. 10.
- **Low battery report:** When the battery level is too low, every 30 minutes will report once.

### Z-Wave™ Notification

After the device adding to the network, it will wake up once per day in default. When it wake-up it will broadcast the “Wake Up Notification” message to the network, and wake up 10 seconds for receive the setting commands. The wake-up interval minimum setting is 30 minutes, and the maximum setting is 120 hours. And the in-terval step is 30 minutes. If the user wants to wake up the device immediately, please rotate to area A and press the touch button once. The device will wake up for 10 seconds every single time.

### Configuration

The configuration mark with star(\*), means after the remove the setting still keeps, don't reset to factory default. Unless the user executes the “RESET” procedure.

### Installation

1. Fix the bracket on the wall.
2. There's a magnet on the backside of this device. It can stick to the bracket.

**Notice:** Do not install the bracket on unstable wall, this may cause miscarriage to control lights.

### Firmware update over the air (OTA)

This device supports the Z-Wave firmware update via OTA. Let the controller into the firmware update mode, and rotate to area A then touch the button once to start update. After finish the firmware download, the red LED will start to flash every 0.5 sec-ond. Please don't remove the battery before the LED stop flashing.

**Notice:** recommend using OTA when the device is charging.

### Supported Z-Wave Command Classes

- COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2
- COMMAND\_CLASS\_BATTERY
- COMMAND\_CLASS\_CENTRAL\_SCENE\_V1
- COMMAND\_CLASS\_VERSION\_V2

- COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC\_V2
- COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY
- COMMAND\_CLASS\_ASSOCIATION\_V2
- COMMAND\_CLASS\_WAKE\_UP\_V2
- COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO
- COMMAND\_CLASS\_POWERLEVEL
- COMMAND\_CLASS\_MULTI\_CMD
- COMMAND\_CLASS\_SECURITY
- COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD\_V2
- COMMAND\_CLASS\_CONFIGURATION

## Security Network

The device support the security function. When the device included with a security controller, the device will auto switch to the security mode. In the security mode, the follow commands need using Security CC wrapped to communicate, otherwise it will not response.

- COMMAND\_CLASS\_BATTERY
- COMMAND\_CLASS\_ASSOCIATION\_V2
- COMMAND\_CLASS\_CONFIGURATION
- COMMAND\_CLASS\_WAKE\_UP\_V2
- COMMAND\_CLASS\_CENTRAL\_SCENE

## Disposal

This marking indicates that this product should not be disposed of 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 environmentally safe recycling. Philio Technology Corporation 8F., No.653-2, Zhongzheng Rd., Xinzhuang Dist., New Taipei City 24257, Taiwan(R.O.C) [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.

## Documents / Resources

	<a href="#">Philio PSR04 Smart Color Button</a> [pdf] User Manual PSR04, Smart Color Button, PSR04 Smart Color Button
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## References

- [philio-tech.com](https://philio-tech.com)
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