

PSK01 Smart Keypad



The PSK01 support Z-Wave™ Multi-Functions Smart Switch to report key status and setup Arm/ Disarm.

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.

The devices Built-in rechargeable Lithium-ion battery and using DC 5V(Micro USB) charge.

Keypad function list

- Multi-Functions Smart Switch to control door lock or other Z-Wave device
- Wireless 500 series Z-Wave module inside
- Leading Code Function
- Invisible Antenna design with good RF range
- Support Security 2 Function
- Beautiful touch panel, changeable white/black color panel
- Built-in rechargeable Lithium-ion battery
- Low battery LED indicator and report to Controller
- Enable and Disable button (programmed with sensors)
- Support 30 sets of user code to unlock door
- Green and Red LED Indicator on the periphery
- Blue and Green LED Indicator on the buttons
- Long Battery life up to six months

Starting up the device for the first time

The device can not work normally at the first time. Please provide a 5 DVC voltage through Micro USB Port to wake the device up before the first using. 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 turn off

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 Buzzer can beep 3 times. Please charge the device through micro USB immediately.

PSK01 have two KEYPAD mode

1. Entry Control mode: you need to enter User code in order to enter setting mode.
2. Central Scene mode: you don't need to enter User code in order to enter setting mode.

Entry Control mode: button LED is Green color

Central Scene mode: button LED is Blue color

*if you want to use Central Scene with Z-wave, have to in Central Scene mode

*Tips: You can long press 9 and 0, until 5s later, and then mode can change to Entry control or Central Scene mode.







PC (Programming code): default is (0000)

UC (User code): default is (1234)

ENTER PC: type 0000(default) then type ENTER

Whenever PSK01 is woken up from sleep, it will light on no more than four digits of random keys. You have to press the random keys one by one, then it will enter the Entry Control mode.

Manual control (Entry Control mode)

Manual control (Entry Control mode)	
function	description
Add Programming code default (0000)	<p>1. ENTER PC</p> <p>2. Enter 4 → </p> <p>3. type new PC then type </p> <p>*code length is 4~10 digit</p> <p>(default programming code is 0000) ex: type 0000 then enter then type 4 then type new programming code</p>
Add User code default (1234)	<p>1. ENTER PC</p> <p>2. Enter 1 → </p> <p>3. type new User code then Enter </p> <p>*code length is 4~10 digit</p> <p>(default programming code is 0000) ex: type 0000 then enter then type 1 then type new user code</p>
remove User code	<p>1. ENTER PC</p> <p>2. Enter 2 → </p> <p>3. type User code then Enter </p>

	<p>*code length is 4~10 digit</p> <p>(default programming code is 0000) ex: type 0000 then enter then type 2 then type user code</p>
reset	<p>1. ENTER PC</p> <p>2. Enter ⑨ → ④</p> <p>(default programming code is 0000) ex: type 0000 then enter then type 9</p>

Z-Wave Function

ENTER PC : type 0000(default) then type ENTER


function	description
Add	<p>1. Have Z-Wave™ Controller entered inclusion mode.</p> <p>2. ENTER PC then ① → ① → ④</p> <p>3. After add successful, the device buzzer will beep twice</p> <p>(default programming code is 0000) ex: type 0000 then enter then type 1 & 0</p>

Remove	<p>1. Have Z-Wave™ Controller entered exclusion mode.</p> <p>2. ENTER PC then ① → ① → ④</p> <p>3. After remove successful, the device buzzer will beep twice</p> <p>(default programming code is 0000) ex: type 0000 then enter then type 1 & 0</p>
Reset	<p>1. Press the Restore function in page 2 (reset)</p> <p>2. Device can send reset locally notification</p>
Add user code	<p>1. Z-Wave™ Controller use Command Class User Code</p> <p>2. Use Command User Code Set</p> <p>3. Set User code ID, User code Status, User code note: User code ID range is 1~30, User code Status 0x01, User code length is 4~10,</p>
Remove user code	<p>1. Z-Wave™ Controller use Command Class User Code</p> <p>2. Use Command User Code Set</p> <p>3. Set User code ID, User code Status, User code note: User code ID range is 1~30, User code Status 0x00, User code length is 4~10</p>
Notification	<p>1. type user code then can send Alarm report</p> <p>2. Behind the panel it have a tamper key if Disassembly the pad, and release tamper key it can send tamper report</p>

association	<p>The device support one group, group one is for receiving the report message, like</p> <ol style="list-style-type: none"> 1.Reset 2.Scene report 3.alarm report 4.low battery <p>One group support 5 nodes maximum.</p>
Smart start	<p>1.Product has a DSK string, you can key in first five digit to increment smart start process, or you can scan QR code.</p> <p>Ex: mydsk 10209-46687-52248-13629-04783-07465-15776-56519</p> <p>2.SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of minutes On in the network vicinity</p>

Entry Control Function

DisArm mode set	<ol style="list-style-type: none"> 1. Make sure pad mode is safe mode 2. enter user code then ENTER 3. it can send disarm report
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Arm mode set	<ol style="list-style-type: none"> 1. Make sure pad mode is safe mode 2. enter  3. it can send disarm report
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Central Scene Function

Central Scene report	<ol style="list-style-type: none"> 1.Make sure pad mode is non safe mode or already type user code. 2.Press 1 or 2 times in 2 sec. or hold on for 2 sec. or release any one of key.
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Z-Wave configuration

NO	Name	Def	Valid	description
1	Set KEYPAD mode	0x01	1~3	1: Entry Control mode 2: Central Scene mode 3.multi Color mode
2	BUZZER	1	0~1	1:BUZZER ON 0:BUZZER OFF
3	RAND MODE	1	0~1	1:RAND ON 0:RAND OFF
4	TOUCH	1	0~1	1:TOUCH SLEEP

	SLEEP			0:TOUCH NO SLEEP
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Notice 1: Always remove a Z-Wave device before trying to add it to a Z-Wave network.

Notice 2: This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network..

Over The Air Firmware Update

The device support the Z-Wave firmware update via OTA. Let the Z-Wave™ Controller into the firmware update mode, chose the hex file to update. Wait for 10~15 minutes. At that time, **please don't remove the battery**, otherwise it will cause the firmware broken, and the device will no function. Result will show in Z-Wave™ Controller log.

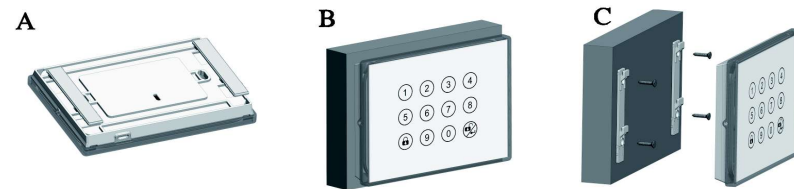
Z-Wave Supported Command Class

COMMAND_CLASS_ZWAVEPLUS_INFO
 COMMAND_CLASS_SUPERVISION,
 COMMAND_CLASS_TRANSPORT_SERVICE_V2
 COMMAND_CLASS_SECURITY
 COMMAND_CLASS_SECURITY_2
 COMMAND_CLASS_VERSION*
 COMMAND_CLASS_MANUFACTURER_SPECIFIC*

COMMAND_CLASS_DEVICE_RESET_LOCALLY*
 COMMAND_CLASS_POWERLEVEL*
 COMMAND_CLASS_ENTRYCONTROL*
 COMMAND_CLASS_CENTRAL_SCENE*
 COMMAND_CLASS_BATTERY*
 COMMAND_CLASS_USER_CODE*
 COMMAND_CLASS_ASSOCIATION_V2*
 COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V2*
 COMMAND_CLASS_ASSOCIATION_GRP_INFO*
 COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2*
 * Command Class Requires Security

Installation steps

- Mount the bracket to the rear of the body first.
- Remove the double-sided adhesive release paper on the bracket and stick it on the wall surface.
- Push up the PSK01 and remove it. If necessary, lock it. Screw up, you can take the opposite way of PSK01

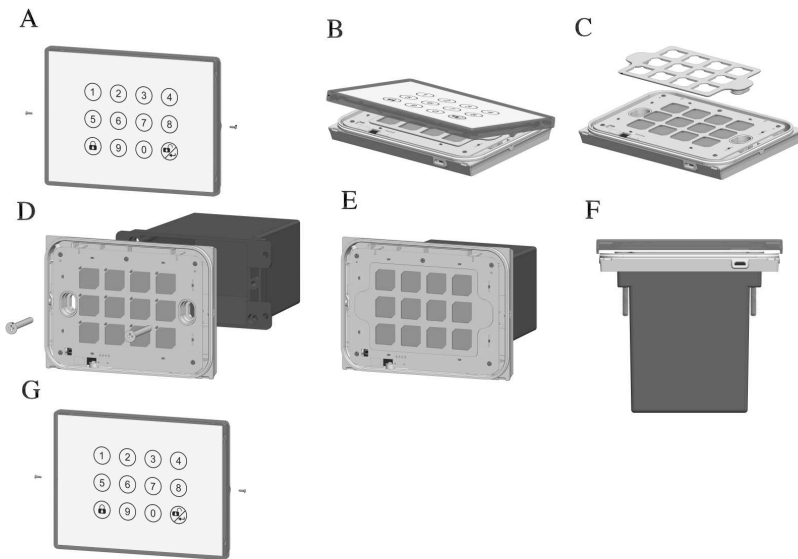


How to use the table
 Insert the back frame into the screw hole at the rear of the PSK01 to stand at the table.



Install the PSK01 body to the WALL BOX

- Remove the screws on the left and right sides of the panel
- Use two removal holes to remove the panel
- Remove the screw cover
- Install the PSK01 body to the WALL BOX and lock the screws.
- Install the screw cover back



F. Install the outer frame. When installing, pay attention to the parallel connection between the panel and the body to prevent the O-ring from coming out.

G. Lock back panel screws

Tamper Switch

If the tamper switch be released, the device will send the alarm report.



Troubleshooting

Symptom	Cause of Failure	Recommendation
The device can not work	Battery is running out of power	Charging the battery by Micro USB.
The device can not join to Z-Wave	The device may in a Z-Wave	Exclude the device then

network	network.	include again.
Button no response	The button will no response when LED is flashing.	Wait for the LED go out and try again.

Specification

Rated Voltage (rechargeable Lithium-ion battery)	DC3.5V~4.2V
Rated Voltage (Micro USB)	DC5V
Operating Temperature	0°C ~ 40°C
Location	IP44 (indoor and outdoor)
Frequency Range	868.40MHz & 869.85MHz / EU (PSK01-EU); 908.4MHz & 916.0MHz / USA (PSK01-US); 922-927MHz / JAPAN (PSK01-JP);
RF Maximum Power (Peak)	+5dBm (Peak)
RF Maximum Power (Average)	-10dBm (Average)
Transmission Range	Minimum 40 m in door 100m outdoor line of sight
Modulation Type	FSK (Frequency-Shift Keying)

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

FCC ID: RHPSK01



CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to the instructions.

Choosing a Suitable Location

1. Do not locate the Module facing direct sunlight, humid or dusty place.
2. The suitable ambient temperature for the Module is 0°C~40°C.
3. Do not locate the Module where exists combustible substances or any source of heat, e.g. fires, radiators, boiler etc.

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.

Philio Technology Corporation
8F., No.653-2, Zhongzheng Rd., Xinzhuang Dist., New Taipei City
24257, Taiwan(R.O.C)
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 fol-

lowing 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.