

# INDOOR SIREN

## QUICK INSTALLATION GUIDE v1.2

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### ELECTROMAGNETIC COMPATIBILITY

When operated according to manufacturer instructions, the product complies with all applicable CE harmonised standards from EMC Directive 2004/108/EC and Part 15 of the FCC Rules. The connections conducting HF signals must not be damaged or altered in any way by the user.

### TAKE CARE OF YOUR SAFETY

Display extreme caution when using ladders or steps, please follow manufacturer's instructions. Be careful when using hand and power tools and follow the manufacturer's guidelines when using them. Take care that the correct tools are used. Wear goggles or protective clothing where required. Don't keep in close proximity to your ears because it's emitting sound can damage your hearing.

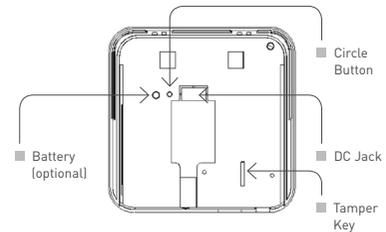
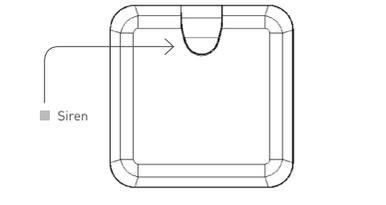
## INTRODUCTION

Zipato Indoor Siren is a wireless siren, based on Z-Wave technology. It is the Z-Wave plus product, it support the security, OTA... all newest features of the Z-Wave technology. Z-Wave 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. 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. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

The device adopt the Z-Wave 500 series chip, when your Z-Wave network system is all made by Z-Wave 500 series devices. The network system will have the advantages as below.

- Concurrent multi-channel support reduces external interference
- Better RF range, improve about 10 meters in indoor.
- Support 100 Kbps transmit speed, speed up communication.

## OVERVIEW



## POWER UP PROCEDURE

### NWI (NETWORK WIDE INCLUSION)

When the device power on, the device will check if it is already added to the network? If is not, it will auto start the NWI mode. The LED will flash in every second and continue to do so for 3 minutes. Until timeout or the device successful to inclusion by controller. User can press the tamper key (or the circle button) 3 times to abort the NWI mode.

**Notice:** When device enters the NWI mode, the device's functionality will be useless. The NWI mode will timeout after 3 minutes. You can press the tamper key (or the circle button) 3 times to abort the NWI mode.

## MANUAL BATTERY SHUTDOWN

When the DC power is dropped. The system will auto switch to use the battery power. If you want to really shutdown the system, please follow instructions as below.

- 1 | Press and hold the circle button.
- 2 | Click the tamper 3 times in 1.5 seconds.
- 3 | Release the circle button.
- 4 | If shutdown successful, the LED will flash 3 times.

After the battery shutdown, the system won't work anymore, unless the DC power recovery.

## ADDING TO Z-WAVE NETWORK

There are one tamper key and a circle button behind the device. Both of them can add, remove, or reset a device in Z-Wave network. At the first time, add the device into the Z-Wave network. First, make sure the primary controller is in the adding/inclusion mode. And then power on the device. The device will auto start the NWI mode. And it should be included in 5 seconds. You will see the LED light ON one second.

**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	DESCRIPTION
Add	<ol style="list-style-type: none"> <li>1   Have Z-Wave Controller entered inclusion mode.</li> <li>2   Pressing tamper key three times within 1.5 seconds to enter the inclusion mode.</li> <li>3   After add successful, the LED will light ON 1 second.</li> </ol>
Remove	<ol style="list-style-type: none"> <li>1   Have Z-Wave Controller entered inclusion mode.</li> <li>2   Pressing tamper key three times within 1.5 seconds to enter the inclusion mode. Node ID has been excluded.</li> </ol>
Reset	<p><i>Notice: Use this procedure only in the event that the primary controller is lost or inoperable.</i></p> <ol style="list-style-type: none"> <li>1   Pressing tamper key four times within 1.5 seconds and do not release the tamper key on the 4th, and the LED will light ON.</li> <li>2   After 3 seconds the LED will turn OFF, after that within 2 seconds, release the tamper key. If successful, the LED will light ON one second. Otherwise, the LED flashes once.</li> <li>3   IDs are excluded and all settings will reset to factory default.</li> </ol>
Association	<ol style="list-style-type: none"> <li>1   Have Z-Wave Controller entered association mode.</li> <li>2   Pressing tamper key three times within 1.5 seconds to enter the association mode.</li> </ol> <p><i>Notice: The device support 1 group. The group 1 is for receiving the report message, like tamper event. And the group 8 nodes maximum</i></p>

**Notice:** Always RESET a Z-Wave device before trying to add it to a Z-Wave network.

## Z-WAVE MESSAGE REPORT

In default the device will using Notification Report to represent the trigger event, it can be changed to Sensor Binary Report by setting the configuration NO. 7 Bit4 to 1.

### TAMPER REPORT

When the tamper key is pressed over 5 seconds. The device will into the alarm state. In that state, if the tamper key be released, the device will unsolicited to send the report to the nodes in the group 1.

#### NOTIFICATION REPORT (V4)

Notification Type: Home Security (0x07)  
Event: Tampering. Product covering removed (0x03)

#### SENSOR BINARY REPORT (V2)

Sensor Type: Tamper (0x08)  
Sensor Value: 0xFF

## SIREN STATE REPORT

When the siren start playing or stop the alarm sounds, the device will unsolicited to send the "Sensor Binary Report" to the nodes in the group 1.

Sensor Type: General Purpose (0x01)  
Sensor Value: 0xFF (Start play), or 0x00 (Stop play)

## Z-WAVE CONFIGURATION SETTINGS

**Notice:**

- All of the configuration, the data size is 1.
- The configuration mark with star(\*), means after the remove the setting still keep, don't reset to factory default. Unless the user execute the "RESET" procedure.
- The reserve bit or not supported bit is allowed any value, but no effect.

NO.	NAME	DEF.	VALID	DESCRIPTION
7[*]	Costumer Function	4	All	Customer function switch, using bit control.
		0		Bit0: Reserve.
		0		Bit1: Reserve.
		0		Bit2: Reserve.
		0		Bit3: Reserve.
		0		Bit4: Notification Type, 0: Using Notification Report, 1: Using Sensor Binary Report.
		0		Bit5: Reserve.
29	Disable Alarm	0	0,1	Disable the alarm function. 1: Disable Alarm, 0: Enable Alarm. Caution: After the power up, this configuration is always 0.
		0		Bit6: Reserve.
		0		Bit7: Reserve.
		0		
31	Alarm Duration	6	0-127	Play alarm sound duration, 1 tick is 30 seconds. Default is 3 minutes, maximum is 63.5 minutes. 0 means never auto stop.

## PLAY SOUND

The device supports using SWITCH\_MULTILEVEL SET to play the sound. The sound ID is define as follow:

- 1 or 255: Emergency sound.
- 2: Fire alert.
- 3: Ambulance sound.
- 4: Police car sound.
- 5: Door chime.
- 6-99: Beep Beep.
- 0: means stop the sound.

## 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_NOTIFICATION_V4
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_SENSOR_BINARY_V2
COMMAND_CLASS_SWITCH_MULTILEVEL
COMMAND_CLASS_SWITCH_BINARY
```

## OVER THE AIR FIRMWARE UPDATE (OTA)

The device support the Z-Wave firmware update via Over The Air Firmware Update (OTA). Before starting the procedure, please remove the back cover of the device. Otherwise the hardware check will be failed. Let the controller into the firmware update mode, and then press the front tamper key once to start the update. After finish the firmware download, the LED will start flash in every 0.5 second. At that time, **please don't cut off the power**, otherwise it will cause the firmware broken, and the device will no function. After the LED stop flash, it is recommended that the user power up the device. **Caution:** After power off the device, please wait about 30 seconds, and then re-plug the power line.

## SPECIFICATION

POWER	DC 5V, support for lithium battery
RANGE INDOOR	minimum 30 meters
RANGE OUTDOOR	70 meters in line of sight
OPERATING TEMPERATURE	-10 ° C - 40 ° C
DIMENSION	110 x 110 x 14 mm
WEIGHT	114g

### ➤ Z-WAVE SUPPORTED COMMAND CLASS

COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2  
COMMAND\_CLASS\_BASIC  
COMMAND\_CLASS\_SWITCH\_BINARY  
COMMAND\_CLASS\_NOTIFICATION\_V4  
COMMAND\_CLASS\_ASSOCIATION\_V2  
COMMAND\_CLASS\_CONFIGURATION  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC\_V2  
COMMAND\_CLASS\_VERSION\_V2  
COMMAND\_CLASS\_SENSOR\_BINARY\_V2  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO  
COMMAND\_CLASS\_POWERLEVEL  
COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY  
COMMAND\_CLASS\_SECURITY  
COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD\_V2

## MODELS AND FREQUENCIES

### ➤ MODELS

EUROPEAN UNION - EU version	ph-pse02.eu
UNITED STATES - US version	ph-pse02.us
RUSSIA - RU version	ph-pse02.ru
ISRAEL - IS version	ph-pse02.is
AUSTRALIA - AU version	ph-pse02.au
INDIA - IN version	ph-pse02.in

### ➤ FREQUENCIES

EUROPEAN UNION - EU	868.42, 869.85 MHz
UNITED STATES - US	908.42, 916.00 MHz
RUSSIA - RU	869.02MHz
ISRAEL - IS	916.02MHz
AUSTRALIA - AU	921.42MHz
INDIA - IN	865.20MHz
JAPAN/TAIWAN - JP/TW	922-927 MHz

## LIMITED PRODUCT WARRANTY

### ➤ GENERAL TERMS

Nothing in this Limited Product Warranty affects your statutory rights as a consumer. The Limited Product Warranty set forth below is given by Tri plus grupa d.o.o. (Europe) [herein referred to as "ZIPATO"]. This Limited Product Warranty is only effective upon presentation of the proof of purchase. Upon further request by

ZIPATO, this warranty card has to be presented, too.

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This Limited Product Warranty applies to ZIPATO branded hardware products (collectively referred to as "ZIPATO Hardware Products") sold by ZIPATO (Europe), its European subsidiaries, affiliates, authorized resellers, or country distributors (collectively referred to as "ZIPATO Resellers") with this Limited Product Warranty. The term "ZIPATO Hardware Product" is limited to the hardware components and all its internal components including firmware. The term "ZIPATO Hardware Product" DOES NOT include any software applications or programs.

### ➤ GEOGRAPHICAL SCOPE OF THE LIMITED PRODUCT WARRANTY

This Limited Product Warranty is applicable to Hardware Products sold by Zipato Resellers in all countries listed at the beginning of this document under the heading "Countries in which this ZIPATO Limited Product Warranty applies". The Limited Product Warranty will be honored in any country where ZIPATO or its authorized service providers offer warranty service subject to the terms and conditions set forth in this Limited Product Warranty. However, warranty service availability and response times may vary from country to country and may also be subject to registration requirements.

### ➤ LIMITATION OF PRODUCT WARRANTY

ZIPATO warrants that the products described below under normal use are free from material defects in materials and workmanship during the Limited Product Warranty Period set forth below ("Limited Product Warranty Period"), if the product is used and serviced in accordance with the user manual and other documentation provided to the purchaser at the time of purchase (or as amended from time to time). ZIPATO does not warrant that the products will operate uninterrupted or error-free or that all deficiencies, errors, defects or non-conformities will be corrected. This warranty shall not apply to problems resulting from: (a) unauthorized alterations or attachments; (b) negligence, abuse or misuse, including failure to operate the product in accordance with specifications or interface requirements; (c) improper handling; (d) failure of goods or services not obtained from ZIPATO or not subject to a then-effective ZIPATO warranty or maintenance

agreement; (e) improper use or storage; or (f) fire, water, acts of God or other catastrophic events. This warranty shall also not apply to any particular product if any ZIPATO serial number has been removed or defaced in any way.

ZIPATO IS NOT RESPONSIBLE FOR DAMAGE THAT OCCURS AS A RESULT OF YOUR FAILURE TO FOLLOW THE INSTRUCTIONS FOR THE ZIPATO HARDWARE PRODUCT.

### ➤ LIMITED PRODUCT WARRANTY PERIOD

The Limited Product Warranty Period starts on the date of purchase from ZIPATO. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair to your ZIPATO branded hardware is required within the Limited Product Warranty Period. [Other than in respect of products for domestic use (in particular those listed in the first and last boxes in the table below), this Limited Product Warranty extends only to the original end user purchaser of this ZIPATO Hardware Product and is not transferable to anyone who obtains ownership of the ZIPATO Hardware Product from the original end-user purchaser.

### ➤ PRODUCT WARRANTY PERIOD TABLE

PRODUCT TYPE	Indoor Siren
PRODUCT WARRANTY PERIOD	One (1) year

### IMPORTANT

The content of "Product Type" listed above is subject to change; please refer to the [www.zipato.com](http://www.zipato.com) for latest update.

### ➤ PERFORMANCE OF THE LIMITED PRODUCT WARRANTY

If a product defect occurs, ZIPATO's sole obligation shall be to repair or replace any defective Zipato Hardware Product free of charge provided it is returned to an Authorized ZIPATO Service Centre during the Limited Warranty Period. Such repair or replacement will be rendered by ZIPATO at an Authorized ZIPATO Service Centre. All component parts or hardware products that are replaced under this Limited Product Warranty become the property of ZIPATO. The replacement part or product takes on the remaining Limited Warranty Period of the replaced part or product. The replacement product need not be new or of an identical make, model or part; ZIPATO may in its discretion replace the defective product (or any part thereof) with any reconditioned equivalent (or superior) product in all material respects to the defective product.

### WARRANTOR

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CROATIA

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FAX +385 (0)1 4004 405

## DECLARATION OF CONFORMITY

The Manufacturer Tri plus grupa d.o.o. hereby declares that the product:  
Zipato Indoor Siren



In accordance with the following Directive(s): 2006/95/EC The Low Voltage Directive, 89/336/EEC The Electromagnetic Compatibility Directive and 1999/5/EC R&T EC Directive is in conformity with the applicable requirements of the following documents:

EN 300 220-2 EN 301 489-3 EN 50130-4  
EN 300 328 EN 301 489-17 EN 60950-1

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

Person responsible for this declaration:  
Dean Janacek, Certification Manager  
26.02.2015

Changes or modifications not expressly approved by Tri plus grupa d.o.o. for compliance could void the user's authority to operate the equipment.



### 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.

**NOTE: Changes or modifications not expressly approved by Zipato for compliance could void the user's authority to operate the equipment.** 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.

### ➤ DISPOSING AND RECYCLING YOUR PRODUCT



This symbol on the product or packaging means that according to local laws and regulations needs to be disposed of separately from household waste and sent to recycling because it contains electronic components and a battery. Once this product has reached the end of its life, please take it to a collection point (recycle facilities) designated by your local authorities, some will accept your product for free or simply drop it off at your Zipato re-seller store. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health. At Zipato, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimize this impact Zipato designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

### ➤ CONTACT SUPPORT

E-MAIL: [support@zipato.com](mailto:support@zipato.com)  
(Mon-Fri) 9.00am-05.00pm (CET)  
[www.zipato.com](http://www.zipato.com)

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