

# 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.

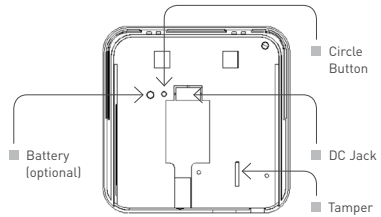
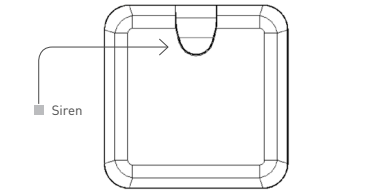
## INTRODUCTION

Zipato Indoor Siren is a wireless siren, based on Z-Wave technology. It is the Z-Wave plus product, it supports the security, OTA... all the 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. 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 is based on 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, about 10 meters improvement indoors.
- Supports 100 Kbps transmission speed

## OVERVIEW



### PACKAGE CONTENT

- Indoor Siren (1PC)
- Screws pack (1PC)
- Power adapter (1PC)
- Power cable (1PC)
- Quick installation guide (1PC)

## SPECIFICATION

PROTOCOL	Z-Wave Plus
POWER	DC 5V, Li-Ion battery (optional)
BATTERY CAPACITY	1150mAh
OPERATING VOLTAGE:	3.7V
OPERATING CURRENT	150 mA
OPERATING TEMPERATURE	0°C ~ 40°C
WEIGHT	113g
DIMENSIONS	22mm x 110mm x 110mm
PACKAGE WEIGHT	217g
PACKAGE DIMENSIONS	117mm x 50mm x 117mm
REGULATIONS	EMC 2004/108/EC, R&TTE 1995/5/EC, LVD 2006/95/EC, FCC PART 15
WARRANTY	1 year

### MODEL AND FREQUENCIES

EUROPEAN UNION - EU version	868.42, 869.85 MHz
UNITED STATES - US version	908.42, 916.00 MHz
RUSSIA - RU version	ph-pse02.ru / 869.02MHz
ISRAEL - IS version	ph-pse02.is / 916.02MHz
AUSTRALIA - AU version	ph-pse02.au / 921.42MHz
INDIA - IN version	ph-pse02.in / 865.20MHz
JAPAN/TAIWAN - JP/TW	922-927 MHz

## POWER UP PROCEDURE

### NWI (NETWORK WIDE INCLUSION)

When the device is powered on, the device will check if it is already added to the network? If it is not, it will auto start the NWI mode. The LED will flash every second and continue to do so for 3 minutes until timeout or successful inclusion by the 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, its 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, until the DC power recovery.

## ADDING TO Z-WAVE NETWORK

There are tamper and circle buttons on back side of device. Both of them can add, remove, or reset a device in Z-Wave network. You must add the device into the Z-Wave network. First, make sure the Z-Wave controller is in the adding/inclusion mode. And then power on the device. The device will auto start the NWI mode. Inclusion should be done in 5 seconds. LED should light up for 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 in inclusion mode.</li> <li>2   Press the tamper key three times within 1.5 seconds to enter the inclusion mode.</li> <li>3   After successful inclusion, the LED will light up for 1 second.</li> </ol>
Remove	<ol style="list-style-type: none"> <li>1   Have Z-Wave Controller entered in exclusion mode.</li> <li>2   Press the tamper key three times within 1.5 seconds to enter the exclusion mode. Node ID has been excluded.</li> </ol> <p><i>Notice: Use this procedure only in the event that the primary controller is lost or inoperable.</i></p>
Reset	<ol style="list-style-type: none"> <li>1   Press tamper key four times within 1.5 seconds and do not release the tamper key in the 4th pressed, and the LED will light ON.</li> <li>2   After 3 seconds the LED will turn OFF, then 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   Press the tamper key three times within 1.5 seconds to enter the association mode.</li> </ol> <p><i>Notice: The device supports 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

By default the device uses Notification Report to represent the trigger event, but 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 for over 5 seconds. The device will

go into the alarm state. In that state, if the tamper key be released, the device will 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 starts playing or stops the alarm sounds, the device will 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

- For all of the configuration, the data size is 1.
- The configuration parameters marked with star[\*], mean that after device removal, settings will be kept, without restoring default factory values, unless user executes "RESET" procedure.
- The reserve bit or not supported bit is allowed any value, but it has no effect.

NO.	NAME	DEF.	VALID	DESCRIPTION
7[*]	Costumer Function	4	All	Customer function switch, using bit control.
		0		Bit4: Notification Type, 0: Using Notification Report. 1: Using Sensor Binary Report.
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.
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 defined as follows:

- 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 supports the security function. When device is included by security controller, it will auto switch to the security mode. In

the security mode, the following commands need to be wrapped in Security Command Classes, otherwise there will be no 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
```

## Z-WAVE COMMAND CLASSES

```
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
```

## OVER THE AIR FIRMWARE UPDATE (OTA)

The device supports Z-Wave firmware update Over The Air (OTA). Before starting the procedure, please remove the back cover of the device. Otherwise the hardware check will fail. Put the Z-Wave Controller into the firmware update mode, and then press the front tamper key once to start the update.

After the firmware download completes, the LED will start flashing repeatedly in 0.5 seconds intervals. During that time, **please don't cut off the power**, otherwise firmware update will fail, leading to possible device malfunction. After the LED stops flashing, it is recommended that the user powers up the device. **Caution:** After powering off the device, please wait about 30 seconds, and then re-plug the power line.

## TROUBLESHOOTING

### Having trouble installing your new product?

Zipato's website contains the latest user documentation and software updates for Zipato products and services:  
[www.zipato.com](http://www.zipato.com)

You can also find answers in the Zipato Community at:  
[community.zipato.com](http://community.zipato.com)  
Zipato Support: [support@zipato.com](mailto:support@zipato.com)

## 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. EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, ZIPATO MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ZIPATO EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED

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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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FAX +385 (0)1 4004 405

## DECLARATION OF CONFORMITY



The manufacturer Tri plus grupa d.o.o declares under our sole responsibility that the product:

Marketing model: Indoor Siren  
Regulatory model: ph-pse02  
Trade/Brand name: Zipato

is in conformity with the Low Voltage Directive 2006/95/EC, EMC Directive 2004/108/EC and R&TTE Directive 1995/5/EC and carries the CE marking accordingly.  
The following harmonized standards were applied:

### R&TTE (1995/5/EC)

EN 300 220-1: V2.4.1  
EN 300 220-2: V2.4.1  
EN 61000-3-2:2006 + A1:2009 + A2:2009, Class A  
EN 62479:2010  
EN 55022:2010 /AC:2011

### EMC (2004/108/EC)

EN 301 489-1: V1.9.2  
EN 301 489-3: V1.6.1  
EN 61000-3-3:2013

### LVD (2006/95/EC)

EN 60950-1:2006 + A1:2009 + A1:2010 + A12:2011 + A2: 2013

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

When it reaches end of life, dispose of the product according to your local environmental laws, guidelines and regulations.

### BATTERY DISPOSAL

Dispose of batteries according to your local environmental laws, guidelines and regulations.



This symbol on the product or packaging means that according to local laws and regulations needs to be disposed of separately from household waste. 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.

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