zipato
everything under control

MINI KEYPAD RFiD/Z-WAVE

QUICK INSTALLATION GUIDE
v1.4

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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.

CAUTION

- This device is using a radio signal that passes through walls, windows and doors. The range is strongly influenced by local conditions such as large metal objects, house wiring, concrete, furniture, refrigerators, microwaves and similar items. On average, the indoor range is approximately 30 meters.
- Do not expose this product to excessive heat or moisture.
- Prevent long term exposure to direct sunlight.
- Do not attempt to repair this product. If the product is damaged or if you are in doubt about the proper operation, take the product back to the place of purchase.
- Do not clean the product with any liquid.

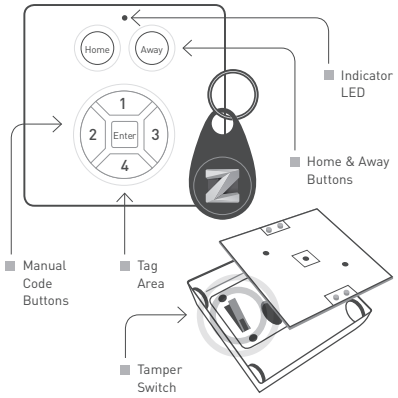
Z-WAVE COMPATIBILITY

Because this is a Z-Wave device, it means it can co-operate with other Z-Wave devices of other manufacturers. It can co-exist in a Z-Wave network existing with product from other manufacturers.

INTRODUCTION

Zipato Mini RFID Keypad combines RFID and Z-Wave protocol for access control purposes. The user can identify themselves either by using manual code buttons on the numeric keypad, or by using a RFID key fob. The keypad fully supports Zipato automated security systems but also works with other Z-Wave enabled networks. "Home" and "Away" buttons allow the arming and disarming of security system or running any automation scenario.

OVERVIEW



PACKAGE CONTENTS

1PC	Mini Keypad RFiD/Z-Wave
1PC	RFiD tag
2PC	AA 1,5V batteries

FEATURES

- Arms or disarms security system
- User identification over numeric keypad or RFID key fobs (1 included)
- Can be used with any Z-Wave network/controller, regardless of the manufacturer
- Very low power consumption
- Low power indication
- Low battery auto report
- Easy installation and relocation

SPECIFICATION

TECHNICAL SPECIFICATION

PROTOCOL	Z-Wavetm, RFID, Tag-it, ISO15693, ISO18000-3
POWER	2 x AA 1,5V batteries
RANGE	Minimum 30m indoor / 70m outdoor
STORAGE TEMPERATURE	-5°C – 65°C
STORAGE HUMIDITY	10% to 70%
OPERATING TEMPERATURE	10°C – 40°C
OPERATING HUMIDITY	30% to 80%
WEIGHT	45g
DIMENSIONS	17mm x 62mm x 62mm
PACKAGE WEIGHT	150g
PACKAGE DIMENSIONS	122mm x 95mm x 35mm
REGULATIONS	EMC 2004/108/EC, R&TTE 1995/5/EC, LVD 2006/95/EC, FCC PART 15
WARRANTY	1 year

MODELS AND FREQUENCIES

EUROPEAN UNION - EU version	wt-rfid.eu / 868.42 MHz
UNITED STATES - US version	wt-rfid.us / 908.42MHz
RUSSIA - RU version	wt-rfid.ru / 869.02MHz
ISRAEL - IS version	wt-rfid.is / 916.02MHz
AUSTRALIA - AU version	wt-rfid.au / 921.42MHz
INDIA - IN version	wt-rfid.in / 865.20MHz

INSTALLATION AND OPERATION

1 | Use a flat screwdriver at the inlets on the sides to gently unlock the back cover.
2 | Use the designated holes on the back cover to screw and mount the Mini Keypad RFiD/Z-Wave.
3 | Place two AA 1,5V batteries into the device.
4 | Mount the Mini Keypad RFiD/Z-Wave onto the back cover, be sure to close it on all sides, turn the back cover as shown in the picture in overview section. Be sure that the tamper is place on the right spot on the back cover. Mini Keypad RFiD/Z-Wave. (indication mode: Tamper pressed/released).
5 | After 1 seconds startup routine begins (indication mode: Ready for learn mode).
6 | After 3 more seconds (4 seconds in total) mounting is completed. (indication mode: Mounting successful)
7 | The Mini Keypad RFiD/Z-Wave is now ready to use.

LED INDICATION

The indicator gives various statuses of the device as follows:
1 | Ready for learn mode: Indicator light blinks every second.
2 | Learn in progress (add): Indicator light blinks 2 times per second.
3 | Learn in progress (remove): Indicator light blinks 3 times per second.
4 | Learn mode success: Indicator light is on for 1 second.
5 | Learn mode failed: Indicator light blinks 8 times fast.
6 | Tamper pressed/released indicator light blinks 3 times rapidly.
7 | Mounting successful indicator light is on for 1 second.
8 | Busy sending an RF message Indicator light is blinking each second, while most of the time on.
9 | RF message send failed indicator light blinks 6 times rapidly

CONTROL

The Mini Keypad RFiD/Z-Wave operates as an access control device, using the combination of the USER_CODE command class and the ALARM_V2 command class. User Codes are to be stored in the Mini Keypad RFiD/Z-Wave, using the USER_CODE_SET command. When the User Codes are stored in the Mini Keypad RFiD/Z-Wave, the ALARM_REPORT_V2 will have the corresponding USER_ID with the used USER_CODE.

- **There are two types of Access Control with User Codes:**

1 | Manually by using the buttons on the Mini Keypad RFiD/Z-Wave
2 | Using the Mini Keypad RFiD/Z-Wave reader and Tags

- **The difference in using one of the above mentioned methods is:**

1 | When pressing Home/Away, the manual codes (1-4) can be pressed within 1 second. After entering the code the user must press ENTER and the USER_CODE_REPORT or ALARM_REPORT_V2 will be sent.
2 | When the user waits 1 second after pressing Home/Away, the Mini Keypad RFiD/Z-Wave reader is started and a Tag needs to be placed on, brought directly on the Mini Keypad RFiD/Z-Wave.
After successful read, the USER_CODE_REPORT or ALARM_REPORT_V2 will be sent.
Because the RFID code are not readable on the Tags, the Mini Keypad RFiD/Z-Wave has some special procedures. Some examples are given at the **Typical operation diagrams** chapter in the **Technical Manual**.

- **There are some situations:**

1 | IN CASE AN UNKNOWN MANUAL CODE ENTERED OR UNKNOWN TAG PRESENTED.
In this case, the Mini Keypad RFiD/Z-Wave will send an unsolicited USER_CODE_REPORT with **UserID 0** and **UserID Status 0.** A controller will receive this report and can initiate a USER_CODE_SET to the Mini Keypad RFiD/Z-Wave.
2 | IN CASE A KNOWN MANUAL CODE OR TAG IS PRESENTED.
This means, this code was previously SET using the USER_CODE_SET command. Then the Mini Keypad RFiD/Z-Wave will respond with a ALARM_REPORT_V2 with **Type 6** and **Event 0x05** or **0x06**. When the user presses **Home**, event **0x06** (Keypad Unlock) will be used. When the user presses **Away**, event **0x05** (Keypad Lock) will be used.

ADDING TO Z-WAVE NETWORK

INCLUDE OR EXCLUDE IN Z-WAVE NETWORK

1 | Make sure your Z-Wave controller is in the right operation mode (include or exclude)
2 | Press and hold the tamper for 1 seconds and release to start the inclusion/exclusion process
(indication mode: Ready for learn mode).
3 | (The product will start NWI automatically after unsuccessful normal inclusion)

TECHNICAL MANUAL

NOT LISTENING ROUTING SLAVE

This Z-Wave product will be used as routing slave. Slave nodes are nodes in a Z-Wave network that receive commands and perform actions based on the command. This device will always be in sleep mode because it works on batteries. In sleep mode the device is not active listening, the device will wake up according to the wakeup command class.

INCLUDE INITIATOR

The include initiator is used when Primary and Inclusion Controllers include nodes into the network. When both include initiators have been activated simultaneously the new node will be included to the network (if the node was not included previously).

EXCLUDE INITIATOR

The exclude initiator is used by Primary and Inclusion Controllers to exclude nodes from the network. When the exclude initiator and a slave initiator are activated simultaneously, it will result in the slave being excluded from the network (and reset to Node ID zero). Even if the slave was not part of the network it will still be reset by this action.

HOPS & RETRIES

The Z-Wave range has a range of up to 30 meters in line of sight. This signal is not limited to the 30 meter range due to routing the Z-Wave message to other nodes in the network. This way the range of the Z-Wave network can be expanded to 150 meters indoors (limit of 4 hops).

CLASS: 0X63 COMMAND_CLASS_USER_CODE

The purpose of the User Code Command Class is to configure the Mini Keypad RFiD/Z-Wave to accept certain RFID Tags or codes. This is typically done by some kind of static controller or gateway. After sending a User Code Set, including a unique User Identifier (UID), the in-use state (0x01) and the Tag code or keypad sequence using ASCII codes, the Mini Keypad RFiD/Z-Wave will accept the code and notify any other device using the Alarm Command Class. This other device can be configured using the Association Command Class and is typically the same controller or gateway. When a tag or code is not known to the Mini Keypad RFiD/Z-Wave, it will send an unsolicited report to the devices in its association group with the UID 0x00. The value in this message can be used to configure new tags.
NOTE: Code length must be 4 to 10 ASCII digits.

CLASS: 0X86 COMMAND_CLASS_VERSION

This Command Class is used to obtain information about the Mini Keypad RFiD/Z-Wave. The Z-Wave library type, the Z-Wave protocol version and the application version will be reported.

CLASS: 0X72 COMMAND_CLASS_ MANUFACTURER_SPECIFIC_V2

This will report information about the manufacturer. This product will contain the manufacturer ID. Manufacturer ID is 0x97, the ID of this product is 0x31. This command class can be used to request the

serial number of the device.

CLASS 0X20 COMMAND_CLASS_BASIC
The basic command class only has a supporting role and is mapped to the Switch Binary Command Class.

CLASS 0X25 COMMAND_CLASS_SWITCH_BINARY
The Switch Binary Command Class is used to enable or disable the notification sound. This sound is typically used to notify a user when the alarm system is being activated. See also the 'Sound Notification' section.

CLASS: 0X80 COMMAND_CLASS_BATTERY
This class is used to request and report battery levels for a given device. When battery level is lower then 20% the Mini Keypad RFiD/Z-Wave will send a battery warning (value 255) after every wake up notification. A battery get will report the actual value even if below 20%.

CLASS: 0X85 COMMAND_CLASS_ASSOCIATION
The Association Command Class is used to associate the Mini Keypad RFiD/Z-Wave to other devices. When a tag or code is read, the Mini Keypad RFiD/Z-Wave will send a notification to the Z-Wave devices in its association group. It will also report the state of the tamper alarm to the devices in this association group.
- **Number of groupings:** 1
- **Maximum supported nodes per group:** 5

CLASS: 0X84 COMMAND_CLASS_WAKE_UP
The Wake Up Command Class is used at battery-operated devices. This class allows the Mini Keypad RFiD/Z-Wave to wake up occasionally to notify others devices, that the Mini Keypad RFiD/Z-Wave is ready to receive commands. After receiving the commands the Mini Keypad RFiD/Z-Wave will go into sleep mode again. The wake up interval can be set using the WAKE_UP_INTERVAL_SET command.

The default value is 0x1C20 = 7200 sec = 2 hour
The default node is 0xFF = 255 (broadcast)

It is possible to send a **wake up notification** on user interaction. Besides sending a Wake Up Notification automatically every 2 hours (or any other time that is configured using the Wake Up Interval Set command), the Mini Keypad RFiD/Z-Wave also sends a Wake Up Notification when:
- The tamper alarm state changes (Mini Keypad RFiD/Z-Wave is mounted or removed from the wall)
- A tag read
- A code is entered using the keypad

When the wake up time is set to 0 a **wake up notification** is never send periodically, only on user interaction.

CLASS: 0X70 COMMAND_CLASS_CONFIGURATION_V1

CONFIGURE PARAMETERS:

1 | Set to default
- **DESCRIPTION:**

Set all configuration values to default values (factory settings).
Read more in chapter Configuration Reset.
- **SIZE:** 1 byte*
- **PARAM1:** if 0xFF then set to default
- **PARAM2,3,4:** not used

2 | Feedback time
- **DESCRIPTION:**

To configure the time the beep is automatically turned off in seconds.
- **DEFAULT:** 0x0F
- **PARAM1:** 0x00 means disabled, 0xFF is endless.
- **PARAM2,3,4:** not used
- **SIZE:** 1 byte*

3 | Feedback timeout
- **DESCRIPTION:**

To configure the timeout to wait for a WAKEUP_NO_MORE_INFORMATION before the error beep is automatically sound.
The error beeps are fixed 8 beeps shortly after each other.
- **DEFAULT:** 0x00
- **PARAM1:** 0x00 means disabled
- **PARAM2,3,4:** not used
- **SIZE:** 1 byte*

4 | Feedback beeps per second
- **DESCRIPTION:**

To configure the number of beeps per second.
Every beep is fixed about 10ms.
- **DEFAULT:** 0x02
- **PARAM1:** nr of beeps per second
- **PARAM2,3,4:** not used
- **SIZE:** 1 byte*

5 | The mode
- **DESCRIPTION:**

To configure the operating mode.
- **DEFAULT:** 0x01
- **SIZE:** 1 byte*
- **PARAM1:**
- **MODE 1:** Normal operating mode.
- **MODE 3:** Z-Wave chip is always on to request e.g. version or manufacturer id. If any mode other then 3, that value will be reported after a get but will be handled in SW as mode 1.
- **PARAM2,3:** not used.

* if a size is other then given size the frame is ignored totally so configuration values are not changed

CLASS: 0X71 COMMAND_CLASS_ALARM_V2
In the Mini Keypad RFiD/Z-Wave, this Command Class has two purposes:
1 | Identify the state of the tamper alarm. The device will send an unsolicited report to the devices in its association group if tempering is detected. The state of the tamper alarm can also be requested by any other device.
2 | Report tags or codes that are entered. The Mini Keypad RFiD/Z-Wave will send an unsolicited report to the devices in its association group with the UID that belongs to the code or tag and whether the alarm system should be armed (Away) or disarmed (Home).

Every other alarm type that is requested will be ignored by application.

CONFIGURATION RESET

The Mini Keypad RFiD/Z-Wave supports a configuration reset function.
CONFIGURATION RESET MEANS
- All configuration values are defaulted.
- Wake up interval is defaulted.

This function can be activated by sending a configuration set frame:
CONFIGURATION_SET
- **PARAMETER:** 0x01
- **SIZE:** 0x01 (can't be different from 1)
- **VALUE:** 0xFF (can be any value except for 0x55)

When the value of configuration value is requested 2 possible values can be returned CONFIGURATION_REPORT
- **PARAMETER:** 0x01
- **VALUE 0X55:** Configuration settings of the device are altered.

The device will report this even if the configuration parameters are changed back to the default value.
- **VALUE 0XAA:** Configuration of the device is untouched.

Note that this value will not change to 0x55 upon modifying the wake up interval and that re-setting the value to 0xAA will always reset the wake up interval.

ALWAYS AWAKE MODE

The always awake mode is used to request different values from the device e.g. version and manufacturer specific.
NOTE: in always awake mode the batteries will be drain very fast, we do not recommend to use this mode for a longer period. Always awake mode should only be used in order to configure the device.
NOTE: it is not possible to use the buttons of the Mini Keypad RFiD/Z-Wave while it is operating in always awake mode.

The always awake mode can be activated by:
CONFIGURATION_SET
- **PARAMETER:** 0x05
- **SIZE:** 0x01 (can't be different from 1)
- **VALUE:** 0x03 (mode 3)

The LED of the device will toggle on and off every second to notify you that it is functioning in always awake mode.

The always awake mode can be deactivated by:
CONFIGURATION_SET
- **PARAMETER:** 0x05
- **SIZE:** 0x01 (can't be different from 1)
- **VALUE:** Any value except 3

A second option to deactivate mode 3 is:
1 | Remove batteries.
2 | Wait approximately 10 seconds
3 | Replace batteries

SOUND NOTIFICATION

The Mini Keypad RFiD/Z-Wave is capable of playing a notification sound. This feature is typically used to notify a user that an alarm system is being activated. Since the Mini Keypad RFiD/Z-Wave is a non-listening device, the feature can not be controlled at all times.
It requires the Mini Keypad RFiD/Z-Wave to wake up and send a Wake Up Notification. After sending a notification that a tag/code is read (either an unknown or already configured code), the Mini Keypad RFiD/Z-Wave will send a Wake Up Notification. The notification sound can be turned on/off upon receiving any Wake Up Notification.
See the section about the Wake Up Command Class for information on when a Wake Up Notification is send.

NOTIFICATION SOUND AND ACKNOWLEDGEMENT
The Mini Keypad RFiD/Z-Wave supports 3 types of notification sound configurations:

1 | Notification sound disabled (configuration parameter 2 set to zero)
2 | Notification sound enabled (default, configuration parameter 2 set to auto-stop time).
3 | Notification sound and acknowledgement enabled (configuration parameter 3 set to acknowledgement timeout). In the first mode, any Basic or Switch Binary commands that are received are ignored.
The second mode, the default, can be used to inform a user that the alarm system is armed or disarmed. To use this, you can send a Basic or Switch Binary set on (0xFF) after receiving an Alarm Report and the Wake Up Notification following it.

The last mode can be used in situations where, for example, users can only disarm the alarm system at certain times. In this case, the user can be notified whether or not its code or tag is accepted.
By configuring configuration parameter 3, you can set an acknowledge timeout. Whenever a Lock/Unlock Alarm Report containing an UID is send by the Mini Keypad RFiD/Z-Wave, the acknowledgement timeout timer is started.

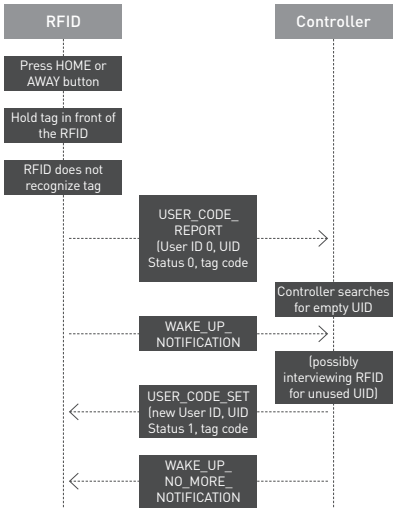
AFTER THIS THERE ARE TWO POSSIBILITIES:
1 | The Mini Keypad RFiD/Z-Wave does not receive anything (or receives a Wake Up No More Information upon its Wake Up Notification). It starts the error sound to notify the user of the unaccepted code.
2 | The Mini Keypad RFiD/Z-Wave receives either a Basic (or Switch Binary) on (to start the normal notification sound) or off (to silently acknowledge the code). The acknowledgement timer is stopped.

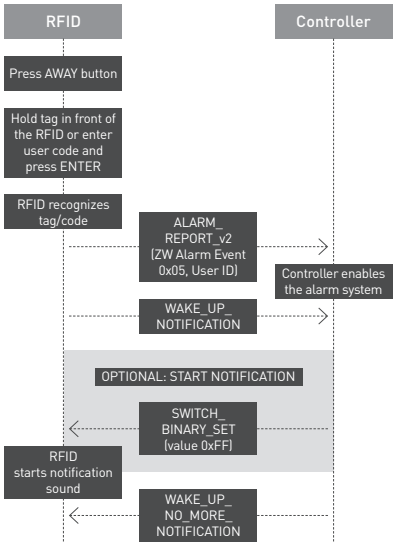
Note that it is actually possible to disable notification sound, but enable acknowledgement. In this case a silent acknowledgement can be both a Basic/Switch Binary on (0xFF) or off (0x00).

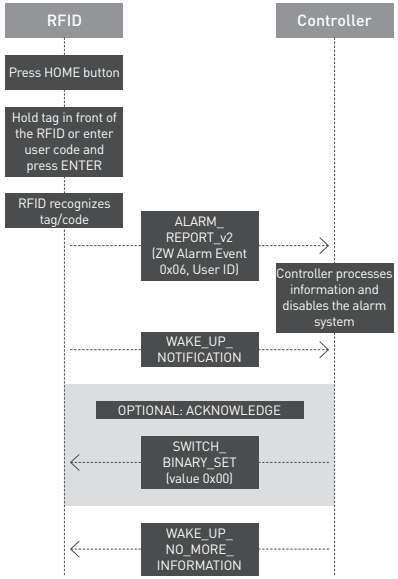
TYPICAL OPERATION DIAGRAMS

The following diagrams show the user action that is required and the messages which are being sent from/to the Mini Keypad RFiD/Z-Wave for several basic operations, including optional functionality as the sound notification and UID acknowledgement.

CONFIGURE A NEW TAG
(for configuring new codes, you can skip directly to the WAKE_UP_NOTIFICATION).







TROUBLESHOOTING

FREQUENTLY ASKED QUESTIONS

Q | Why doesn't the Mini Keypad RFiD/Z-Wave read tags?
A | 1. The device is not (correctly) included in a Z-Wave network. Include the device and try it again.
2. Are you using the right tags? The supported protocols are ISO15693, ISO18000-3, Tag-it™.
3. The batteries are so empty that the device cannot startup, try putting new ones in.
4. The tamper switch is not fully or properly pressed. You should hear a clicking sound when the Tamper switch is pressed in completely.

Q: The buttons don't work, even when the batteries are in.
A | 1. The tamper switch is not fully or properly pressed. You should hear a clicking sound when the tamper switch is pressed in completely.
2. The batteries could be empty. Put new batteries in and try it again.

Q | I can't have the Mini Keypad RFiD/Z-Wave included into my Z-Wave network, what am I doing wrong?
A | 1. Is the controller ready to include any device into the Z-Wave network? If the controller is not in Include or exclude mode, the Mini Keypad RFiD/Z-Wave will not be included or excluded.
2. The Mini Keypad RFiD/Z-Wave is already included in a Z-Wave network. Exclude the Mini Keypad RFiD/Z-Wave and Try to include it again.

Q | I have configured a value but when I request it, it is not changed?
A | It is mandatory that the correct size is used while configure a parameter; go to the documentation about the configuration command class to check if the right size is used during configuration. If the wrong size is used the frame is ignored totally.

Q | I have configured a new value and when I request it the correct value is returned but the behavior is still the same?
A | Some configuration parameters have limits of what they can do, go to the documentation about configuration to check if the value of the configured parameter is out off limit.

Q | When I mount the Mini Keypad RFiD/Z-Wave it performs its standard mounting routine but after 8 seconds the indicator light doesn't go on for 1 second but blinks 6 times.
A | blinking 6 times can mean:
1. Mini Keypad RFiD/Z-Wave is not included
2. Mini Keypad RFiD/Z-Wave is not associated
3. Mini Keypad RFiD/Z-Wave can't reached his destination
If all three options are corrected, the Mini Keypad RFiD/Z-Wave is will operate correctly and can be mounted again.

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

You can also find answers in the Zipato Community at:
community.zipato.com

Zipato Support: **support@zipato.com**

Z-WAVE COMMAND CLASSES

BASIC TYPE	BASIC_TYPE_ROUTING_SLAVE
GENERIC TYPE	GENERIC_TYPE_ENTRY_CONTROL
SPECIFIC TYPE	SPECIFIC_TYPE_NOT_USED
LISTENING	FALSE, Z-Wave Lib: 4.51

CLASS: 0x85 COMMAND_CLASS_ASSOCIATION
CLASS: 0x80 COMMAND_CLASS_BATTERY
CLASS: 0x84 COMMAND_CLASS_WAKE_UP
CLASS: 0x86 COMMAND_CLASS_VERSION
CLASS: 0x72 COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
CLASS: 0x71 COMMAND_CLASS_ALARM_V2
CLASS: 0x70 COMMAND_CLASS_CONFIGURATION
CLASS: 0x25 COMMAND_CLASS_SWITCH_BINARY
CLASS: 0x63 COMMAND_CLASS_USER_CODE

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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

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

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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	Mini Keypad RFiD/Z-Wave
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** 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
Tri plus grupa d.o.o.
Banjavciceva 11
10 000 Zagreb
CROATIA

TEL +385 (0)1 4004 404
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: Mini Keypad RFiD/Z-Wave
Regulatory model: wt-rfid
Trade/Brand name: Zipato

is in conformity with the Low Voltage Directive 2006/95/EC, EMC Directive 2004/108/EC, 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

EMC (2004/108/EC)
EN 301 489-1: V1.9.2
EN 301 489-3: V1.6.1
LVD (2006/95/EC)
EN 60669-2-1:2004 + A1:2009 + A12:2010 used in conjunction with EN 60669-1:1999 + A1:2002 + A2:2008

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 enviromental laws, guidelines and regulations.

BATTERY DISPOSAL
Dispose of batteries according to your local enviromental 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 facilites) 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.

ZIPATO AND THE ENVIRONMENT

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