INTRODUCTION

MINI KEYPAD RFiD/Z-WAVE

QUICK INSTALLATION GUIDE

TRADEMARKS

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ELECTROMAGNETIC COMPATIBILITY

In proper state and when operated properly, the product complies with all the requirements in respect of interference radiation according to EN 301 489-17, EN 301 489-1 and EN 300 328. The connections conducting RF signals must not be manipulated or damaged.

TAKE CARE OF YOUR SAFETY

Display extreme caution when using ladders or steps, please follow manufacturer’s instructions. Be careful when using hand tools and power tools and follow the manufacturer’s guidelines when using them. Take care that the correct tools are used. Wear protective glasses or clothing where required.

TECHNICAL SPECS

NORMAL OPERATING VOLTAGE

2x AA, 1.5V batteries

FREQUENCY RANGE

868.42 MHz

RANGE

Up to 30m line of sight

PROTOCOLS SUPPORTED

ISO15493, ISO18000-3, Z-Wave, RF

BUZZER-SOUND

Approximately 46dB at 10cm distance

OPERATING HUMIDITY

10% to 70%

OPERATION TEMPERATURE

5°C to 40°C

STORAGE TEMPERATURE

-25°C to +85°C

GENERAL SPECIFICATIONS

MAXIMUM POWER CONSUMPTION

< 60mW

POWER SUPPLY

From Node 0x0000 in Z-Wave network

COMMUNICATION PROTOCOL

Z-Wave network

DATA RATE

100 kbps

DATA FORMAT

Manchester

INDICATIONS

Alarms

1 |

Mounted successful indicator light is on for 1 second.

2 |

Learn mode success: Indicator light is on for 1 second.

3 |

Learn mode failed: Indicator light blinks 8 times fast.

4 |

Tamper pressed/released indicator light blinks 3 times rapidly.

5 |

Learn mode success: Indicator light blinks 3 times per second.

6 |

Learn in progress (remove): Indicator light blinks 3 times per second.

7 |

Tamper pressed/released indicator light blinks 2 times rapidly.

8 |

Busy sending an RF message: Indicator light is blinking each second, while most of the time on.

9 |

RF message sent failed: indicator light blinks 4 times rapidly.

QUICK INSTALLATION GUIDE

1. Use a flat screwdriver at the inlets on the sides to gently unlock the back cover.
2. Place two AA, 1.5V batteries into the device.
3. Mount the Mini Keypad RFiD/Z-Wave onto the back cover, be sure to close it on all sides and that the tamper gets through the back cover of the Mini Keypad RFiD/Z-Wave. (Indication mode: Tamper pressed/released).
4. After 1 seconds startup routine begins (indication mode: Ready for learn mode).
5. After 3 more seconds (4 seconds in total) mounting is completed. (Indication mode: Mounting successful).
6. Make sure your Z-Wave controller is in the right operation mode (activate or deactivate).
7. Press and hold the tamper for 1 seconds and release to start the inclusion/exclusion process (Indication mode: Ready for learn mode).
8. The product will start NW automatically after unsuccessful normal inclusion.
9. Switch 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. UserCodes are to be stored in the Mini Keypad RFiD/Z-Wave, using the USER_CODE_SET command when the UserCodes are in use.
10. The Z-Wave range has a range of up to 30 meters in line of sight. This way the range of the Z-Wave network existing with product from other manufacturers.

CONTROL

Basic command class only has a supporting role and is typically done by some kind of static controller or gateway (for instance the Winop (plate)). After sending a User Code Set, including a unique User Identifi er (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 notification can be used in combination with the Alarm 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 device in its association group with the UID 0x00. The value in this message can be used to configure new tags.

TECHNICAL DETAILS:

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RF message sent failed: indicator light blinks 4 times rapidly.

Installation guide supersedes all previous versions.

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

1 | When pressing Home/Away, the manual codes (1-4) can be pressed according to the above mentioned commands. The Mini Keypad RFiD/Z-Wave's indicator light will react differently on each action.
2 | The power consumption is less (because it works on batteries). In sleep mode the device is not active listening, the device will wake up according to the wake-up command class.
3 | The Mini Keypad RFiD/Z-Wave has some special procedures. Some examples are given at the Typical operation diagrams chapter in this Technical manual.
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**MINI KEYPAD RFID/Z-WAVE**

**QUICK INSTALLATION GUIDE**

**v1.2**

### CLASS: 0x080 COMMAND_CLASS_BATTERY

This class is used to request and report battery levels for a given device. When battery level is lower than 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: 0x085 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.

**PARAMETERS:**
- **PARAM1:** Not used
- **PARAM2:** Not used
- **PARAM3:** Not used
- **PARAM4:** Not used

### CLASS: 0x084 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 again the wake up interval can be set using the WAKE_UP_INTERVAL_SET command.

The default value is 0x1C0 = 7200 sec = 2 hour.

When the value of the timer expires the device will send a Wake Up Notification automatically after 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: 0x070 COMMAND_CLASS_CONFIGURATION_V1

**CONFIGURE PARAMETERS:**

- **PARAM1:** Set to default
- **PARAM2:** Set all configuration values to default values (factory settings).
- **PARAM3:** Set all configuration values to default values (factory settings).
- **PARAM4:** Read more in chapter Configuration Reset.

**PARAMETERS:**
- **PARAM1:** Not used
- **PARAM2:** Not used

**SIZE:** 1 byte

**DESCRIPTION:** To configure the time the beeps is automatically turned off in seconds.

When the value of configuration value is requested 2 possible values can be returned:

- **Value: 0x01 (can't be different from 1)
- **Value: 0x00 (can be any value except for 0x55)

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**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

The always awake mode is used to request different values from the device e.g. version and manufacturer specific.

**NOTE:** it is 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
- **VALUE:** 0x00 (mode 3)

The Mini Keypad RFID/Z-Wave will send a Wake Up Notification. This notification sound can be turn on/off by using the Wake Up Notification command. See the section about the Wake Up Command Class for information on when a Wake Up Notification is send.

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### 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 turn on/off by using the Wake Up Notification command. See the section about the Wake Up Command Class for information on when a Wake Up Notification is send.

### CONFIGURE A NEW TAG

(For changing new codes, you can skip directly to the WAKE_UP_NOTIFICATION.)

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

** CONFIGURATION_SET**

- **PARAMETER:** 0x05
- **SIZE:** 0x01
- **VALUE:** 0x00 (default)

**NOTE:** in always awake mode the batteries will be drain very fast, we do not recommend to use this mode for a longer period.

### 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.

**ALWAYS AWAKE MODE**

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**MINI KEYPAD RFiD/Z-WAVE QUICK INSTALLATION GUIDE v1.2**

**Controller**
- Press HOME button
- Hold tag in front of the RFiD or enter user code and press ENTER

**RFID**
- RFID recognizes tag
- Controller processes information and disables the alarm system
- WAKE UP NOTIFICATION
- OPTIONAL ACKNOWLEDGE
- SWITCH BINARY SET (Dallas DS18)
- WAKE UP NO MORE INFORMATION

**ALARM REPORT**
- v2
- Z-Wave Alarm Event
- v1.2

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**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 Triplus grupa d.o.o. (Europe) (hereinafter 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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**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 time 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 lift 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 evidence 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.

**PRODUCT WARRANTY PERIOD TABLE**

<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>Product Warranty Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini Keypad RFiD/Z-Wave</td>
<td>One (1) year</td>
</tr>
</tbody>
</table>

**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.

**WE MAKE EVERY HOME SMART**

**wWw.zipato.com**
DECLARATION OF CONFORMITY

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

Zipabox Smart home controller 1

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&TTE Directive is in conformity with the applicable requirements of the following documents:

EN 61326  EN 61000-3-3  EN 61000-4-11  IEC/EN 55011  EN 61000-4-2  EN 61000-4-6  EN 61000-4-8  AS/NZS/IEC 60335-2-97  EN 61000-4-3  EN 61000-4-11  EN 61000-4-2  EN 61000-4-11  EN 61000-4-8

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
01.09.2012

Changes or modifications not expressly approved 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.

La présente appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:
1. L’appareil ne doit pas produire de brouillage, et
2. L’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

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