

# MULTI SENSOR TRIPLE

## QUICK INSTALLATION GUIDE v1.2

### 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 HF signals must neither be manipulated nor damaged.

### 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.

## INTRODUCTION

### TECHNICAL SPECS

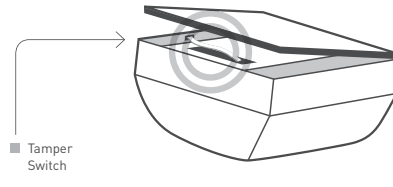
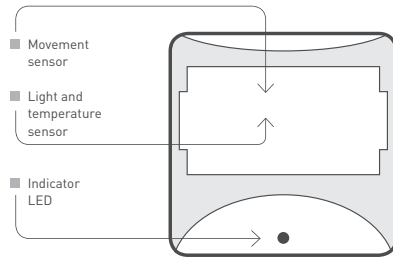
|                             |                                   |
|-----------------------------|-----------------------------------|
| NORMAL OPERATING VOLTAGE    | 2x AA 1,5V batteries              |
| FREQUENCY RANGE             | 868.42 MHz                        |
| RANGE                       | Up to 30m in line of sight        |
| TEMPERATURE SENSOR ACCURACY | +/- 2,5° C from -55° C to +130° C |
| MOTION SENSOR RANGE         | Max. 10 meters under a 110° angle |

### BASIC OPERATIONS

- The Multi Sensor Triple can detect movement, measure light intensity and temperature.
- The Multi Sensor Triple can trigger a security system.

### MOUNTING

- Use a flat screwdriver at the inlets on the sides to gently unlock the back cover.



- Use the designated holes on the back cover to screw mount the Multi Sensor Triple. For optimal use, mount the Multi Sensor Triple between 1,8 m and 2,4m above ground (A rotating bracket is available to adjust the direction the Multi Sensor Triple is pointing to).
- Place two AA 1,5V batteries into the device.
- Mount the Multi Sensor Triple onto the back cover and be sure to close it on all sides and that the tamper gets through the back cover of the Multi Sensor Triple (indication mode: Tamper pressed/released).
- After 3 seconds startup routine begins (indication mode: Ready for learn mode).
- After 5 more seconds (8 seconds in total) mounting is completed. (indication mode: Mounting successful)
- The Multi Sensor Triple has to start up for 10 seconds.
- After 10 seconds the Multi Sensor Triple is ready for detection.

### INCLUDE OR EXCLUDE IN Z-WAVE NETWORK

- Make sure your Z-Wave controller is in the right operation mode (include or exclude).
- When the Multi Sensor Triple is mounted, remove it from the back cover as explained in step one of the Mounting instructions.
- Press and hold the tamper for 4 seconds (indication mode: Ready for learn mode). Now release the tamper switch to start the inclusion or exclusion process (indication mode: Learn in progress).
- The product will start NWI automatically after unsuccessful normal inclusion)

### INDICATION MODES

- The indicator light gives various statuses of the device as follows:
  - Ready for learn mode: indicator light blinks every second.
  - Learn in progress (add): indicator light 2 times every second.
  - Learn in progress (remove): indicator light 3 times every second.
  - Learn mode success: indicator light is on for one second.
  - Learn mode failed: indicator light blinks 8 times rapidly.
  - Tamper pressed/released indicator light blinks 3 times rapidly.
  - Mounting successful indicator light is on for 1 second.

## TECHNICAL MANUAL

### 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.

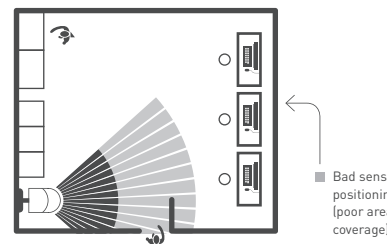
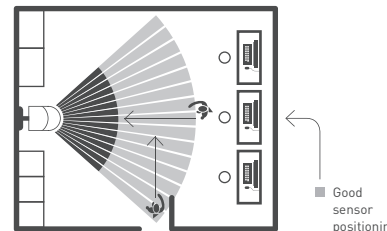
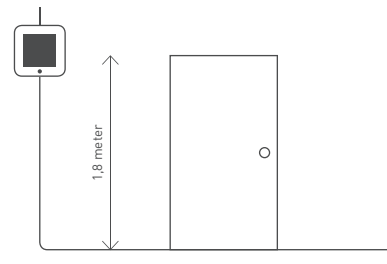
- Do not expose this product to excessive heat or moisture.
- Prevent long term exposure to direct sunlight.
- Do not attempt to repair this product. If the product is damaged or if you are in doubt about the proper operation, take the product back to the place of purchase.
- Do not clean the product with any liquid.

### TECHNICAL DETAILS:

|                             |                                                                               |
|-----------------------------|-------------------------------------------------------------------------------|
| NORMAL OPERATING VOLTAGE    | 2x AA 1,5V batteries<br>From 2,3 to 4,0V<br>do not use rechargeable batteries |
| FREQUENCY RANGE             | 868.42 MHz                                                                    |
| WIRELESS RANGE              | Up to 30m in line of sight                                                    |
| TEMPERATURE SENSOR ACCURACY | +/- 2,5° C from -55° C to +130° C                                             |
| MOTION SENSOR RANGE         | Max. 10 meters under a 110° angle                                             |
| STORAGE TEMPERATURE         | -5°C to +65°C                                                                 |
| STORAGE HUMIDITY            | 10% to 70%                                                                    |
| OPERATING TEMPERATURE       | 0°C to 50°C                                                                   |
| OPERATING HUMIDITY          | 30% to 80%                                                                    |

### DETAILED INSTRUCTION

We advise the Multi Sensor Triple to be mounted between 1,8m and 2,4m from the ground, flat on the wall and not facing down. With an optional bracket, the direction the Multi Sensor Triple is points at can be changed (up/down and left/right). The Multi Sensor Triple detects movement up to 10 meters. Without bracket attached, it is recommended to place the Multi Sensor Triple in the middle of the wall (see 'Good sensor positioning').



### SUPPORTING COMMAND CLASSES

|               |                            |
|---------------|----------------------------|
| BASIC TYPE    | BASIC TYPE_ROUTING_SLAVE   |
| GENERIC TYPE  | GENERIC TYPE_SENSOR_BINARY |
| SPECIFIC TYPE | SPECIFIC TYPE_NOT_USED     |
| LISTENING     | FALSE, Z-Wave Lib: 4.51    |



CLASS: 0x30 COMMAND\_CLASS\_SENSOR\_BINARY  
CLASS: 0x31 COMMAND\_CLASS\_SENSOR\_MULTILEVEL  
CLASS: 0x60 COMMAND\_CLASS\_MULTI\_CHANNEL\_V2  
CLASS: 0x70 COMMAND\_CLASS\_CONFIGURATION  
CLASS: 0x71 COMMAND\_CLASS\_ALARM  
CLASS: 0x72 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
CLASS: 0x80 COMMAND\_CLASS\_BATTERY  
CLASS: 0x84 COMMAND\_CLASS\_WAKE\_UP  
CLASS: 0x85 COMMAND\_CLASS\_ASSOCIATION  
CLASS: 0x86 COMMAND\_CLASS\_VERSION  
CLASS: 0xEF COMMAND\_CLASS\_MARK  
CLASS: 0x20 COMMAND\_CLASS\_BASIC

### 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 the include initiator 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 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.

### 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.

### 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 0X20 COMMAND\_CLASS\_BASIC

When a movement is detected a basic set frame with value 255 is sent to the associated nodes. If the configured time is done with no movement is detected a basic set frame with value 0 is sent to the associated nodes. This is the controlling role of the basic command class. The supporting role of the basic command class is mapped to the sensor binary command class.

### CLASS: 0X30 COMMAND\_CLASS\_SENSOR\_BINARY

The Sensor Binary Command Class can be used to check if motion is detected, value 0 means that there is no motion detected and therefore a associated node is off, value 255 means that a associated node is on.

### CLASS: 0X80 COMMAND\_CLASS\_BATTERY

This class is used to request and report battery levels for a given device.



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When battery level is lower than 20% the Multi Sensor Triple 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: 0X86 COMMAND\_CLASS\_VERSION

This Command Class is used to obtain information about the Multi Sensor Triple. The Z-Wave library type, the Z-Wave protocol version and the application version will be reported.

### ⌕ CLASS: 0X72 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC

This will report information about the manufacturer. This product will contain the manufacturer ID of Wintop. Manufacturer ID of Wintop is 97, the ID of this product is 80.

### ⌕ CLASS: 0X70 COMMAND\_CLASS\_CONFIGURATION CONFIGURE PARAMETERS:

0 | Not used  
1 | Set to default  
■ **DESCRIPTION:**  
Get all config 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 | Mode timeout  
■ **DESCRIPTION:**  
The time used in mode 2 to turn the sensor off. This Time will start running as soon as detection is seen.  
■ **DEFAULT VALUE:** 0x0384 = 900 sec = 15 min  
■ **SIZE:** 2 bytes (integer)\*  
■ **PARAM1:** the most significant byte of the integer  
■ **PARAM2:** the least significant byte of the integer  
■ **PARAM3,4:** not used

3 | Switch off time  
■ **DESCRIPTION:**  
The switch off time will start running as soon as mode timeout is done. Motion sensor is turned on and when movement is detected again the mode timeout [cfg param 1] will start running all over again. When switch off time is done a basic off message is sent to the associated node.  
■ **DEFAULT VALUE:** 0x0ABC = 2700 sec = 45 min.  
■ **SIZE:** 2 bytes (integer)\*  
■ **PARAM1:** the most significant byte of the integer  
■ **PARAM1:** the least significant byte of the integer  
■ **PARAM3,4:** not used

4 | Sensitivity  
■ **DESCRIPTION:**  
the sensitivity of the motion circuit  
■ **DEFAULT:** 0x50 = 80  
■ **SIZE:** 1 byte\*  
■ **PARAM1:** Sensitivity value between 0 and 127 (values above 127 will be reported as the set value but will be handled in SW as 127). 0 is least sensitive and 127 is most sensitive.  
■ **PARAM2,3,4:** not used

5 | The mode  
■ **DESCRIPTION:**  
The mode that is entered after detection  
■ **DEFAULT:** 0x02  
■ **SIZE:** 1 byte\*  
■ **PARAM1:** mode 1, 2 or 3.  
■ **MODE 1:** no detection possible. Battery save mode  
■ **MODE 2:** normal operation mode: send on after detection and off after given time no detection.  
■ **MODE 3:** Z-Wave chip is always on to request e.g. version or manufacturer id. If mode is 0 or higher than 3, that value will be reported after a get but will be handled in SW as mode 2.  
■ **PARAM2,3:** not used.

5 | The temperature offset  
■ **DESCRIPTION:**  
A offset for the temperature.  
■ **DEFAULT:** 0x00  
■ **SIZE:** 2 bytes\*  
■ **PARAM1,2:** A signed integer to determine the offset off the temperature.  
■ **PARAM3,4:** not used.

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

### ⌕ CLASS: 0X31 COMMAND\_CLASS\_SENSOR\_MULTILEVEL

**Sensor\_multilevel\_get**  
The Sensor Multilevel Command Class is used to get a report from the Multi Sensor Triple. The returned value is the measured temperature inside the housing with 2 decimals.

⌕ CLASS: 0X60 COMMAND\_CLASS\_MULTI\_CHANNEL\_V2  
**Request temperature**  
■ **CHANNEL 1**  
**NOTE:** The returned value is the measured temperature (+/- offset) inside the housing with 2 decimals.

**Request light / lux**  
■ **CHANNEL 2**  
**NOTE:** The returned value is the measured LDR resistance in %.

⌕ CLASS: 0X85 COMMAND\_CLASS\_ASSOCIATION  
The Association Command Class is used to associate other devices with the Multi Sensor Triple. The devices that are associated can be controlled on application level. The Multi Sensor Triple can be associated into a grouping. If so, the Multi Sensor Triple can control another Z-Wave device.

Number of groupings: 1  
Maximum supported nodes per group: 5

Because only one group is supported grouping identifier is ignored in all cases.

⌕ CLASS: 0X84 COMMAND\_CLASS\_WAKE\_UP  
The Wake Up Command Class is used at battery-operated devices. This class allows the Multi Sensor Triple to wake up occasionally to notify others devices, that the Multi Sensor Triple is ready to receive commands. After receiving the commands the Multi Sensor Triple 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. To do this press and hold the tamper switch for 8 seconds.  
When the wake up time is set to 0 a wake up notification is never sent periodically, only on user interaction.

⌕ CLASS: 0X71 COMMAND\_CLASS\_ALARM  
This command class is used to identify the state of the tamper alarm.

The device will send an unsolicited report to the controller if the status is changed, the value 0x00 will indicate that the tamper is placed correctly on the wall. The value 0xFF will indicate a tamper alarm.

There is 1 alarm type:  
3: Tamper switch

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

## CONFIGURATION RESET

The Multi Sensor Triple 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 or 0xAA)

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

### CONFIGURATION\_REPORT

■ **PARAMETER:** 0x01  
■ **VALUE 0x55:** Device doesn't have all his configuration settings anymore. Even when a configuration parameter is changed back to the default value  
■ **VALUE 0xAA:** Devices still has all his factory settings. This is only configuration parameters, wake up interval can be changed.

## ALWAYS AWAKE MODE

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

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 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 ca 10 seconds  
3 | Replace batteries

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

## TROUBLESHOOTING

### ⌕ FREQUENTLY ASKED QUESTIONS

**Q | I can't have my Multi Sensor Triple 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 Multi Sensor Triple can not be included or excluded.  
1 | The Multi Sensor Triple is already included in a Z-Wave network. Exclude the Multi Sensor Triple and Try to include it again.

**Q | Why doesn't the Multi Sensor Triple detect any movement?**

A | 1 | The Multi Sensor Triple isn't included in a Z-Wave network. Include it and try it again.  
2 | The batteries are almost empty, try putting new ones in.

**Q | The temperature report of the Multi Sensor Triple is incorrect.**  
A | 1 | The Multi Sensor Triple is placed directly in the sun, which makes the temperature in the housing of the Multi Sensor Triple hotter than elsewhere in the room.  
2 | The calibration is not the same as your other temperature sensor, it is possible to do a re-calibration of the temperature sensor with Vera or other gateway.

**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 of limit.

**Q | When I mount the Multi Sensor Triple 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 | Multi Sensor Triple is not included  
2 | Multi Sensor Triple is not associated  
3 | Multi Sensor Triple can't reach his destination  
If all three options are corrected, Multi Sensor Triple is will operate correctly and can be mounted again.

**Q | When I exclude the Multi Sensor Triple the configuration times are reset back to default.**

A | That is correct when the Multi Sensor Triple is excluded all configurations including wake up timings are reset back to default. You will need to configure the device again after included into the controller. By forcing the tamper switch a wake up message (broadcast) will be send to easily change the configuration.

### ⌕ TECHNICAL SUPPORT

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)

### ⌕ CALL SUPPORT

+ 385 1 4004 404  
(Mon-Fri) 9.00am-06.00

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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 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        | Product Warranty Period |
|---------------------|-------------------------|
| MULTI SENSOR TRIPLE | 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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Banjovci 11  
10 000 Zagreb  
CROATIA

TELEPHONE +385 (1) 444 444 00  
FACSIMILE +44(0)208 955 9001

### DECLARATION OF CONFORMITY

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

Zipbox Smart home controller 1



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

EN 61326 EN 61000-3-3 EN 61000-4-4 EN 61000-4-11  
IEC/EN 55011 EN 61000-6-2 EN 61000-4-5 EN 301 489-1-3  
EN 300 220-2 EN 61000-4-2 EN 61000-4-6 AS/NZS/IEC 60335-2-97  
EN 61000-3-2 EN 61000-4-3 EN 61000-4-8 EN 60335-1

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  
01.09.2012

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.
- Le présent 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.

**NOTE:** 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 this product should be not be disposed of in the household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

#### ZIPATO AND THE ENVIRONMENT

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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