

MICROMODULE MOTOR CONTROLLER

QUICK INSTALLATION GUIDE
v1.3

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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.

DANGER

RISK OF ELECTROCUTION

All work on the device should only be carried out by trained and skilled electricians. Observe the country-specific regulations.

CAUTION

The connected devices and the flush-mounted receiver can become damaged if devices are operated that do not correspond to the technical specifications (see technical data).

DANGER

RISK OF FATAL INJURY FROM ELECTRIC CURRENT.

The device has no basic insulation and must therefore be installed in a way that protects against accidental contact.

DANGER

RISK OF FATAL INJURY FROM ELECTRIC CURRENT.

When installing a wall plate, the distance between the cover's fixing brackets or screws and the connections of the flush-mounted MicroModule Motor Controller must be at least 4 mm once installed. If the distance is less than 4 mm, a deeper installation box must be used. The fixing brackets or screws of the cover must not press against the housing. Only insulated tools may be used for operation on the device, e.g. an insulated phase tester.

INTRODUCTION

TECHNICAL SPECS

NORMAL OPERATING VOLTAGE	250V-A.C.,50Hz
MAXIMUM LOAD	1.8 HP
FREQUENCY RANGE	868.42MHz
WIRELESS RANGE	Up to 30m line of sight

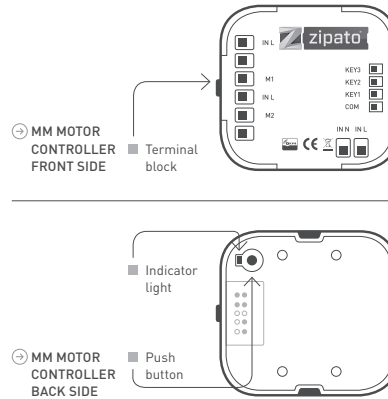


FIGURE 1

BASIC OPERATIONS

- The MicroModule Motor Controller can be remotely controlled.
- The MicroModule Motor Controller can be add/remove from the network by continuously switch on and switch off the external switch 3 times quickly.
- The MicroModule Motor Controller's indicator light will indicate the status of the MicroModule Motor Controller.

MOUNTING

- Turn OFF power by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
- Ensure MicroModule Motor Controller capacity matches the load requirements.
- Wall Installation: Connect it with your existing external switch, default is one push button switch. Please see below Wiring Diagrams & Configuration Parameters.
- Reapply power to the circuit at fuse box or circuit breaker to test the system carefully, if the indicator light on MicroModule Motor Controller blinks 30 seconds and then keep breathing, it means the installation is in good condition.
- Turn OFF the power again.
- For Wall Installation: Insert your external switch together with MicroModule Motor Controller into switch box being careful not to pinch or crush wires, and secure it with screws. Reapply power to the circuit at fuse box or circuit breaker.

MAXIMUM LOAD: 250V - A.C. 50HZ, 1.8HP

Wall Installation Wiring Diagram, connect with push button switch: (see Figure 1, 2 and 3)

PLEASE NOTE: A 6A external fuse before the red wire Live of the MicroModule Motor Controller module must be installed in the installation for protect the MicroModule Motor Controller switch overload. (see Figure 2 and 3) Red wire refers to Live, blue wire refers to Neutral, and black wire refers to connecting with switch.

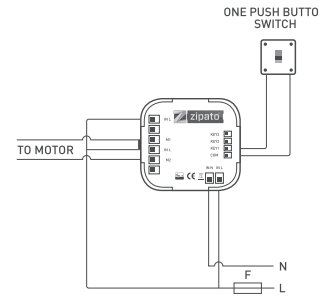


FIGURE 2 Connect with 1 Gang Push Button Switch

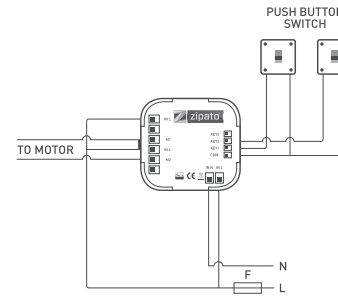


FIGURE 3 Connect with 2 Gang Push Button Switch

NETWORK WIDE INCLUSION

When the MicroModule Motor Controller is not yet included in a Z-Wave network, NWI will be started automatically for 30 seconds when the MicroModule Motor Controller is power ON.

Make sure your Z-Wave controller is in the correct operating mode (inclusion).

NORMAL INCLUDE OR EXCLUDE

Make sure your Z-Wave controller is in the right operation mode (include or exclude). Continuously switch on and switch off the external switch 3 times quickly to start the inclusion or exclusion process (indication mode: Ready for learn mode).

MANUAL CONTROL

1 | Connect the terminal block COM,KEY1,KEY2 with your existing external switch, as per the wiring diagram.

2 | Push/rotate the external switch to control with UP, DOWN and STOP function of the shutter motor.

REMOTE CONTROL

The MicroModule Motor Controller can be remote controlled by several Z-Wave controllers or devices.

INDICATION MODES

The indicator gives various statuses of the device as follows:

- 1 | automatically add: blinks 30 seconds.
- 2 | Ready for learn mode: Indicator light Breathing.
- 3 | Learn in progress (add): Indicator light blinks 1 time.
- 4 | Learn in progress (remove): Indicator light blinks 1 second (8 times).
- 5 | Learn mode success: Indicator light is on for 1 time. (and then if load is on, indicator light keep on; if load is off, indicator light keep breathing)
- 6 | Learn mode failed: Indicator light blinks fast.

TECHNICAL MANUALS

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	110-230VAC,50/60Hz
MAXIMUM LOAD	1.8HP
WIRELESS RANGE	Up to 30m line of sight
STORAGE TEMPERATURE	-5 ° C to +65 ° C
STORAGE HUMIDITY	10% to 70%
OPERATING TEMPERATURE	0 ° C to 50 ° C
OPERATING HUMIDITY	30% to 80%

FREQUENCY

wt-mmdim.eu - 868.42 MHz [EU] / wt-mmdim.us - 908.42MHz [US]
wt-mmdim.ru - 869.02MHz [RU] / wt-mmdim.is - 916.02MHz [IS]
wt-mmdim.au - 921.42MHz [AU] / wt-mmdim.in - 865.20MHz [IN]

ROUTING SLAVE

This Z-Wave product will be used as slave. Slave nodes are nodes in a Z-Wave network that receive commands and perform actions based on the command. A routing slave can route Z-Wave messages to other nodes in the network.

This device is always awake and does not go to sleep mode because it is an AC powered device. This device can act as a wireless repeater to forward commands for another device in the Z-Wave network to expand the range of the network. This function works for every Z-Wave device from any manufacturer when included into the same Z-Wave network.

Unlike a normal slave a routing slave can store a number of static routes which he uses to send a routed rf frame to another node.

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. The Manufacturer ID of Wintop is 0x97, Product ID: 0x24.

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).

➔ SUPPORTING COMMAND CLASSES

BASIC CLASS SLAVE WITH ROUTING CAPABILITIES
 GENERIC CLASS MULTILEVEL SWITCH
 SPECIFIC CLASS MOTOR CONTROL CLASS C

CLASS: 0x27 COMMAND_CLASS_ALL_SWITCH
 CLASS: 0x8E COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION
 CLASS: 0x70 COMMAND_CLASS_CONFIGURATION
 CLASS: 0x72 COMMAND_CLASS_MANUFACTURER_SPECIFIC
 CLASS: 0x75 COMMAND_CLASS_PROTECTION
 CLASS: 0x77 COMMAND_CLASS_NODE_NAMING_AND_LOCATION
 CLASS: 0x86 COMMAND_CLASS_VERSION
 CLASS: 0x25 COMMAND_CLASS_BINARY_SWITCH
 CLASS: 0x20 COMMAND_CLASS_BASIC
 CLASS: 0x26 COMMAND_CLASS_MULTILEVEL_SWITCH
 CLASS: 0x87 COMMAND_CLASS_INDICATOR
 CLASS: 0x85 COMMAND_CLASS_ASSOCIATION
 CLASS: 0x2B COMMAND_CLASS_SCENE_ACTIVATION
 CLASS: 0x2C COMMAND_CLASS_SCENE_ACTUATOR_CONFIGURATION

CONFIGURATION PARAMETERS

PARAMETER	No. 1	Size 1	Default 0
NAME	Buttons mode		

➔ DESCRIPTION

ONE PUSH BUTTON

One button is used [chase any], press while moving up and down, stops, while stopped moves to opposite direction to previous.

TWO BUTTONS WITH NEUTRAL POSITION

Up click moves up if stopped and stops if moving down, Down click moves down if stopped and stops if moving up, Hold Up/Down moves in up/down, Release stops.

TWO TOGGLE SWITCH

Switch to Up/Down moves up/down.

TWO PADDLES WITH POWER AND DIRECTION

Hold Up button to move blinds up.
 If Down button is pressed, blinds will move down.
 Release Up button to stop.

➔ TYPE

Rangemapped

➔ VALUES

0	One push button
1	Two paddles with Power and Direction
2	Two toggle switch
3	Two buttons with neutral position

PARAMETER	No. 7	Size 1	Default 1
NAME	LED mode		

➔ DESCRIPTION

Set LED indication mode

➔ TYPE

Rangemapped

➔ VALUES

0	Disabled
---	----------

1	Show working state
2	Allways on
3	Show opened state
4	Indicator Command Class

PARAMETER	No. 2	Size 2	Default 2
NAME	Automatically close after		

➔ DESCRIPTION

If not zero, automatically close blind after a user defined time

➔ TYPE

Range

➔ VALUES

0	Disabled
1 - -1	sec

PARAMETER	No. 3	Size 1	Default 0
NAME	What to do on RF close command		

➔ DESCRIPTION

Description Defines how to interpret RF Off command. Can be used in conjunction with Auto Close function: Ignore - to open the door by motion detectors and close it back after some amount of time: in case of multiple motion detectors each would try to open that would break logics; Open - to open on both On and Off paddle press on the remote and close after some amount of time. Button close click will still work (if button operations are not disabled). Note that Dim Down command will still begin close motion.

➔ TYPE

Rangemapped

➔ VALUES

0	Close
1	Ignore
2	Open
3	Open if closed, otherwise Close

PARAMETER	No. 10	Size 1	Default 60
NAME	Full close time		

➔ DESCRIPTION

Time to go from opened to closed state. Used to estimate the current level. Note that in Permanent motion mode the reported value would a be Closed or Opened, while all Basic and Multilevel Set values [1-99, 255] would Open except 0 value that would Close.

➔ TYPE

Range

➔ VALUES

0	Keep in permanent motion
1 - -1	Seconds

PARAMETER	No. 11	Size 1	Default 60
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NAME	Full open time
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➔ DESCRIPTION

Time to go from closed to open state.
 This value may differ from Full close time for some blinds due to gravity. Used to estimate the current level.

Note that in Permanent motion mode the reported value would a be Closed or Opened, while all Basic and Multilevel Set values [1-99, 255] would Open except 0 value that would Close.

➔ TYPE

Range

➔ VALUES

0	Keep in permanent motion
1 - -1	Seconds

PARAMETER	No. 12	Size 1	Default 0
NAME	Node Id of the blocking device		

➔ DESCRIPTION

Id of the device which commands would be interpreted not as Open/Close, but as block/unblock.

Useful with door opening detector: if the door is open, block the blind not to break shades while they move.

➔ TYPE

Range

➔ VALUES

0	Disabled
1-24	Node Id

PARAMETER	No. 13	Size 1	Default 0
NAME	On which command from blocking node to enable the protection		

➔ DESCRIPTION

Defines which command from blocking device to interpret as closed door and hence, unprotected.

➔ TYPE

Rangemapped

➔ VALUES

0	on On
1	off Off

PARAMETER	No. 14	Size 1	Default 0
NAME	Invert open and close relays		

➔ DESCRIPTION

Allow exchanging open and close relays if blind control is wired to the motor incorrectly

➔ TYPE

Rangemapped

➔ VALUES

0	No
---	----

1	Yes
---	-----

PARAMETER	No. 4	Size 1	Default 50
NAME	Invert open and close relays		

➔ DESCRIPTION

Allow exchanging open and close relays if blind control is wired to the motor incorrectly

➔ TYPE

Rangemapped

➔ VALUES

0	No
1	Yes

PARAMETER	No. 4	Size 1	Default 50
NAME	Typical click timeout		

➔ DESCRIPTION

Typical time used to differentiate click, hold, double and triple clicks

➔ TYPE

Range

➔ VALUES

0	No
1-100	in 10ms units

PARAMETER	No. 5	Size 1	Default 50
NAME	Invert buttons		

➔ DESCRIPTION

Typical time used to differentiate click, hold, double and triple clicks

➔ TYPE

Rangemapped

➔ VALUES

0	No
1	Yes

PARAMETER	No. 6	Size 1	Default 1
NAME	Invert buttons		

➔ TYPE

Rangemapped

➔ VALUES

0	No
1	Yes

PARAMETER	No. 6	Size 1	Default 1
NAME	Action on button press or hold		

➔ DESCRIPTION

Defines which command should be sent to Association group on

button press or hold. Scene mode will send 1 for Up event, 2 for Stop, 3 for Down.

TYPE

Remapped

VALUES

1	Switch On, Off and dim using Basic Set and MultiLevel Start/Stop Changing
2	Send Scene

ASSOCIATION GROUPS

GROUP NUMBER	MAX NODES	DESCRIPTION
1	10	Click, press and hold of up/down buttons
2	10	Send Reports on blind state change

TROUBLESHOOTING

FREQUENTLY ASKED QUESTIONS

Q | Why does the push button on the switch not work?

A | Check if the MicroModule Motor Controller is completely wiring.

Q | I can't have my MicroModule Motor Controller 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 MicroModule Motor Controller cannot be included or excluded.

2. The MicroModule Motor Controller is already included into a Z-Wave network. Exclude this MicroModule Motor Controller and try to include it again.

Q | Why does the indicator light not work?

A | Check if the MicroModule Motor Controller is fully wiring. The indicator light will not work if there is no power supplied to the MicroModule Motor Controller.

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

CONTACT SUPPORT

E-MAIL: support@zipato.com
(Mon-Fri) 9.00am-05.00pm (CET)

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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 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	MicroModule Motor Controller
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.
Banjavecova 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. hereby declares that the product:
Zipbox 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 61000-4-4 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 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 de l'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: Changes or modifications not expressly approved by Zipato for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

DISPOSING AND RECYCLING YOUR PRODUCT



This symbol on the product or packaging means that according to local laws and regulations needs to be disposed of separately from household waste and sent to recycling because it contains electronic components. 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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