AEOTEC

MICRO MOTOR CONTROLLER

(In-Wall Z-Wave Motor Controller)

View the expanded manual:
http://aeotec.com/support

1 Aeotec by Aeon Labs Micro Motor Controller.

Aeon Labs Micro Motor Controller is a low-cost Z-Wave motor controller specifically used to enable Z-Wave command and control (up/down/stop) for existing window covering motors.

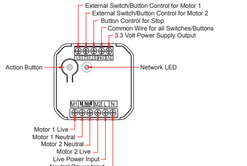
The wireless module is powered from the mains supply. In the event of power failure, non-volatile memory retains all programmed information relating to the units operating status.

It also is a repeater in the Z-Wave network. Acting as a bridge for communication, it will forward Z-Wave command messages to their destinations if the originating controller is out of range from the destination node.

By taking advantage of the Z-Wave mesh network, commands can be routed to their destination via intermediary "listening" Z-Wave products. Products that are Z-Wave certified can be used and communicate with other Z-Wave certified devices.

2 Familiarise yourself with your Micro Motor Controller.

The Aeon Labs Micro Motor Controller must first be powered by AC power system in order to operate. The wiring diagram as show below:



IMPORTANT: A licensed electrician with knowledge and understanding of electrical systems and electrical safety should complete the electrical installation inside the main circuit box.

IMPORTANT: The electricity to the circuit must be shut off during installation for safety and to ensure that wires are not short circuited during installation which will cause damage to the Micro Module.

3 Quick start.

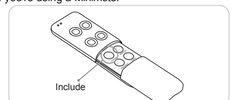
Aeon Labs Micro Motor Controller must be paired (included) into a Z-Wave network before it can receive Z-Wave commands to turn on/off. The Motor Controller can only communicate to devices in the same Z-Wave network.

Let your Micro Motor Controller to be connected to the AC power supply. The following instructions tell you how to link your Micro Motor Controller to your Z-Wave network via using Aeotec by Aeon Labs' Z-Stick or Minimote controllers. If you are using other products as your main Z-Wave controller, such as a Z-Wave gateway, please refer to the part of their respective manual that tells you how add new devices to your network.

If you're using a Z-Stick:

1.Connect your Micro Motor Controller to AC power supply. Its Network LED will begin to blink.
2.If your Z-Stick is plugged into a gateway or a computer, unplug it.
3.Take your Z-Stick to your Micro Motor Controller.
4.Press the Action Button on your Z-Stick.
5.Press the Action Button on your Micro Motor Controller.
6.If Micro Motor Controller has been successfully linked to your Z-Wave network, its Network LED will no longer blink. If the linking was unsuccessful and the Network LED continues to blink repeat the above steps.
7.Press the Action Button on the Z-Stick to take it out of installation mode and return it to your gateway or computer.

If you're using a Minimote:



1.Decide on where you want your Micro Motor Controller to be placed and plug it in to a wall socket. Its Network LED will begin to blink.
2.Take your Minimote to your Micro Motor Controller.
3.Press the Include button on your Minimote.
4.Press the Action Button on your Micro Motor Controller.
5.If Micro Motor Controller has been successfully linked to your Z-Wave network, its Network LED will no longer blink. If the linking was unsuccessful and the Network LED continues to blink repeat the above steps.
6.Press any button on your Minimote to take it out of inclusion mode.

With your Micro Motor Controller now working as a part of your smart home, you'll be able to configure it from your home control software. Please refer to your software's user guide for precise instructions on configuring Micro Motor Controller to your needs.

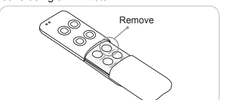
✳ Removing your Micro Motor Controller from a Z-Wave network.

Your Micro Motor Controller can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller to do this and the following instructions tell you how to do this using Aeotec by Aeon Labs' Z-Stick and Minimote controllers. If you are using other products as your main Z-Wave controller, please refer to the part of their respective manuals that tells you how remove devices from your network.

If you're using a Z-Stick:

1.If your Z-Stick is plugged into a gateway or a computer, unplug it.
2.Take your Z-Stick to your Micro Motor Controller.
3.Press the Action Button on your Z-Stick.
4.Press the Action Button on your Micro Motor Controller.
5.If your Micro Motor Controller has been successfully removed from your network, its Network LED will blink. If the removal was unsuccessful, the Network LED will not blink.
6.Press the Action Button on the Z-Stick to take it out of removal mode.

If you're using a Minimote:



1.Take your Minimote to your Micro Motor Controller.
2.Press the Remove Button on your Minimote.
3.Press the Action Button on your Micro Motor Controller.
4.If your Micro Motor Controller has been successfully removed from your network, its Network LED will blink. If the removal was unsuccessful, the Network LED will not blink.
5.Press any button on your Minimote to take it out of removal mode.

4 Advanced functions.

✳ Controlling the Micro Motor Controller.

Use any of the below methods to control the Micro Motor Controller.

1. Pressing the button on the external (Wall) switch will be able to spin the motor up/down/stop.
2. Through the usage of Z-Wave commands built into Z-Wave certified controllers and gateways. (The specific Z-Wave commands supporting this function are the Basic Command Class and Multilevel Switch Command Class.) Please consult the operation manual for these controllers for specific instructions on controlling the Motor Controller.
3. A short press on the button on the Motor Controller will spin the motor up/down/stop.

✳ Change Mode on the External Switch/Button Control.

The Aeon Labs Micro Motor Controller by default is set to be controlled via 2-state (flip/flop) external wall switch. Pushing the button 6 times in quick succession on the Micro Motor Controller will swap between this default mode and the momentary push button external wall switch mode.

⑤ Technical specfications.

Module Number: DSC14104-ZWEU/US. DSC14103-ZWAU.
Operating Temperature: 0~45°C.
Operating Distance: Up to 100feet/30 metres indoors and 300feet/100 metres outdoors.
AC input:

Version	Input	Working band
AU	230V 50Hz, Max: 2.5A	921.42MHz
BR	220V 60Hz, Max: 2.5A	921.42MHz
CN	220V 50Hz, Max: 2.5A	868.42MHz
EU	230V 50Hz, Max: 2.5A	868.42MHz
IN	230V 50Hz, Max: 2.5A	865.22MHz
UK	230V 50Hz, Max: 2.5A	868.42MHz
US	120V 60Hz, Max: 2.5A	908.42MHz

⑥ Warranty.

Aeon Labs warrants to the original purchaser of Products that for the Warranty Period (as defined below), the Products will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the Products in accordance with installation instructions and the operating manual supplied to Customer. Warranty claims must be made by Customer in writing within thirty (30) days of the manifestation of a problem. Aeon Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, replace or correct any such defect that was present at the time of delivery, or to remove the Products and to refund the purchase price to Customer.

The "Warranty Period" begins on the date the Products is delivered and continues for 12 months.

Any repairs under this warranty must be conducted by an authorized Aeon Labs service representative and under Aeon Labs' RMA policy. Any repairs conducted by unauthorized persons shall void this warranty.

Excluded from the warranty are problems due to accidents, acts of God, civil or military authority, civil disturbance, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components.
The "Warranty Period" begins on the date the Products is delivered and continues for 12 months.

Aeon Labs does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein.

Aeon Labs will pass on to Customer all manufacturers' Material warranties to the extent that they are transferable, but will not independently warrant any Material.

Customer must prepay shipping and transportation charges for returned Products, and insure the shipment or accept the risk of loss or damage during such shipment and transportation. Aeon Labs will ship the repaired or replacement products to Customer freight prepaid.

Customer shall indemnify, defend, and hold Aeon Labs and Aeon Labs' affiliates, shareholders, directors, officers, employees, contractors, agents and other representatives harmless from all demands, claims, actions, causes of action, proceedings, suits, assessments, losses, damages, liabilities, settlements, judgments, fines, penalties, interest, costs and expenses (including fees and disbursements of counsel) of every kind (i) based upon personal injury or death or injury to property to the extent any of the foregoing is proximately caused either by a defective product (including strict liability in tort) or by the negligent or willful acts or omissions of Customer or its officers, employees, subcontractors or agents, and/or (ii) arising from or relating to any actual or alleged infringement or misappropriation of any patent, trademark, mask work, copyright, trade secret or any actual or alleged violation of any other intellectual property rights arising from or in connection with the products, except to the extent that such infringement exists as a result of Aeon Labs' manufacturing processes.

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➲ FCC NOTICE (for USA)

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.
STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS. DO NOT IMMERSE IN WATER. NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.

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.

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.
- Consul the dealer or an experienced radio/TV technician for help.

➲ Warning

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

➲ Certifications (regional)

Version: 501001400004-AA

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