Key Fob Gen 5 (User Manual)

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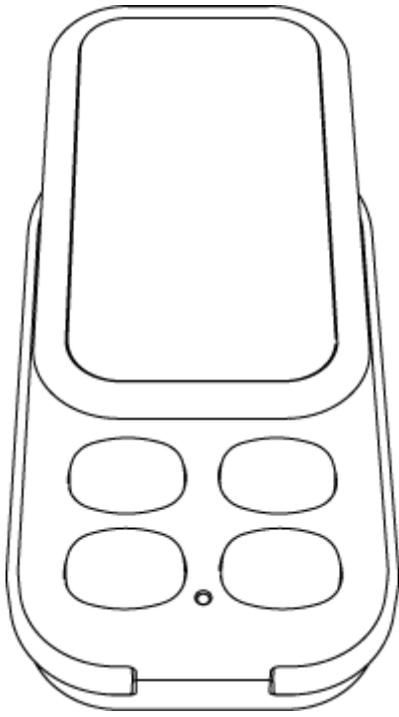
Remote controls revolutionized the way we could do things. They changed the way we watch TV. They changed the way we listen to music. They even changed the way we park our cars. And then they stopped revolutionizing and instead evolved to become more and more complex. They became bigger. They became weighed down with too many buttons, too many confusing things that you could do.

Aeotecs Key Fob, from our Gen5 range of products, takes the remote back to where it began. It's easy to use. It's simple. It's small. It's there for when you need it and it's out of sight for when you don't.

Get To Know Your Key Fob.

Package Contents:
Key Fob Gen5
Battery
Button pin
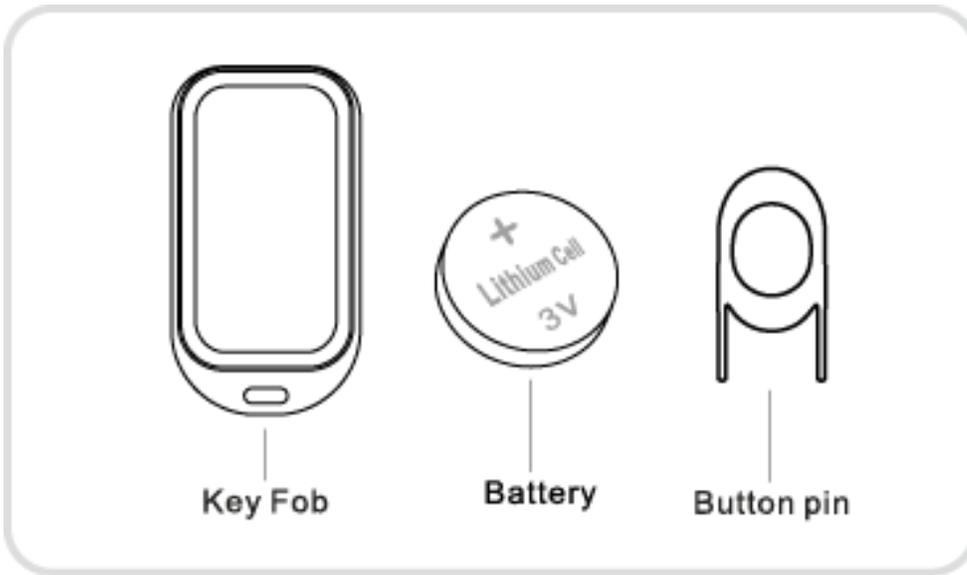
Your Key Fob has four buttons. Each button offers different functionality depending on whether your remote is in Use or Setup mode.

These two modes have very different purposes:
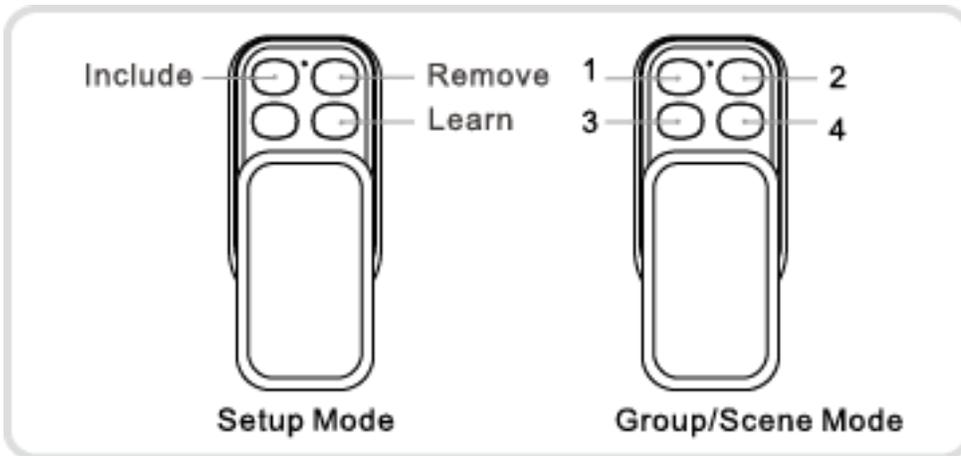
Setup Mode can be used to create a new Z-Wave network or to add or remove devices from an existing Z-Wave network. **Use Mode** allows you to use your Key Fob to have full control of devices within your Z-Wave network. Use Mode can be changed to function as a Group or Scene controller. For further information on your Key Fob's Use Mode, please refer to the section 'Your Key Fob is a secondary controller' under the section 'Creating a scene to control'.

Quick start.

The first step to setting up your Key Fob is to power it up.
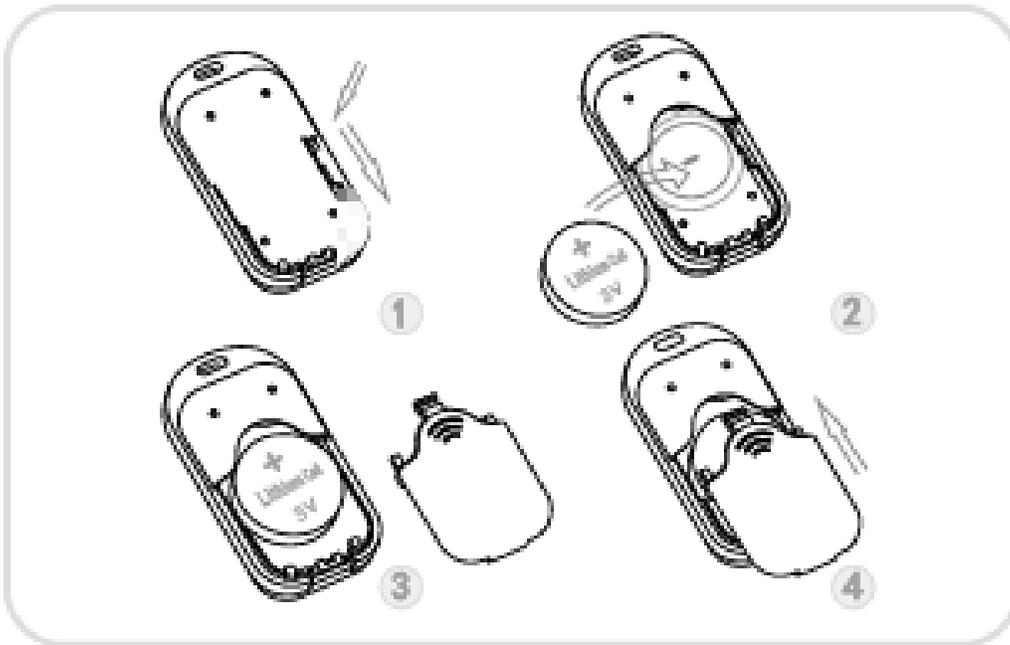
1. Take the CR2450 battery out of the box.

2. Remove your Key Fob's battery cover.

3. Insert the battery with the positive side (+) on top.

4. Reattach the battery cover.

Your Key Fob is now powered on for the first time. As it's the first time you're using it, it is by default in Setup Mode.

Now you need to either create a new Z-Wave network for your Key Fob to control, or to add it to your existing network.

If you already have an existing Z-Wave network.

During the following steps, your Key Fob should be in close to your primary Z-Wave controller. This is likely to be a gateway or hub. You may also refer to our secondary controller quick start article here:
https://aeotec.freshdesk.com/solution/articles/6000125215-secondary-controller-quick-start-key-fob-gen5
(https://aeotec.freshdesk.com/solution/articles/6000125215-secondary-controller-quick-start-key-fob-gen5)

1. Put your primary Z-Wave controller into inclusion mode. If you're unsure of how to do this, refer to the part of its user manual that describes adding new Z-Wave devices to your network.

2. Press the Learn button on your Key Fob with the pin or press the bottom- right action button. Your Key Fob's green light will begin to pulse.

Once the controller and your Key Fob have successfully exchanged information, the green light on your remote will stay lit for 2 seconds. If the exchange of information fails, the red light on your remote will stay lit for 2 seconds. If this occurs, please repeat the process from step 1 ensuring that your primary Z-Wave controller is in inclusion mode.

Your Key Fob will now work as a remote control within your Z-Wave network, allowing it to both control associated devices and act as a tool for adding devices to and removing devices from your Z-Wave network.

Please skip to the 'Change your remote's mode' section of this guide to continue.

If you need to create a new Z-Wave network.

Your Key Fob can be set up as the primary controller of a Z-Wave network. This is ideal for a situation where you don't have an existing Z-Wave network setup, and you're either starting out or intending to set up only a small network.

To create a new Z-Wave network, you need to associate your Key Fob with any Z-Wave devices you want it to control - this will set up a new Z-Wave network for you. These Z-Wave devices cannot be part of an existing network. To do this, refer to the section, 'Adding devices to your Z-Wave network' in the Advanced Functions part of this guide, and follow the instructions.

Change your remote's mode.
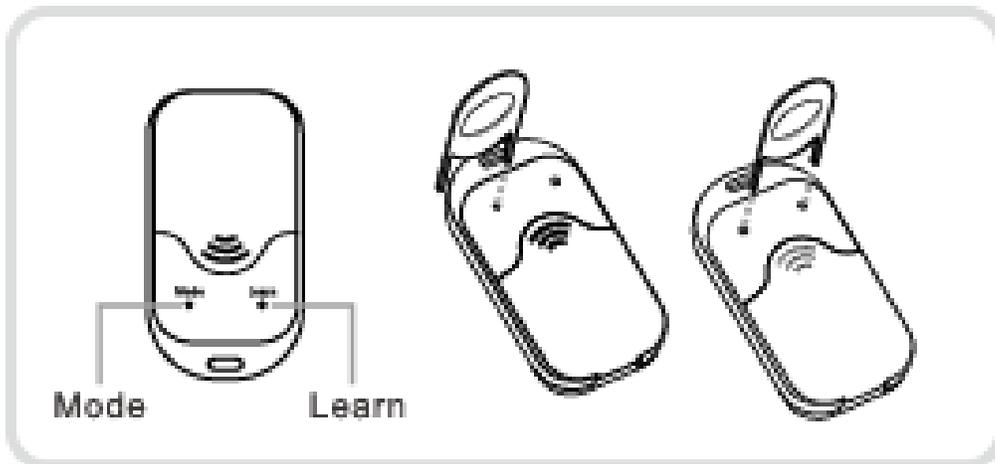
Your Key Fob is now setup and is either part of an existing Z-Wave network or is the primary controller of a new Z-Wave network.

For all the previous steps your Key Fob has been in Setup Mode. It's now time to change it to Use Mode. This will allow your Key Fob to function as a remote control.

1. Slide to open the main panel of your Key Fob so that the buttons are revealed. 2. Press and hold the Mode button and Learn button with 2 pins for 3 seconds.
3. Your remote's red light will illuminate for 3 seconds, then the green light will stay solid for 1 second to confirm that the mode has been successfully changed.
If, at a later stage, you wish to change your Key Fob back to Setup Mode, please repeat the previous steps.

Creating a scene to control.

Before giving your Key Fob control over other Z-Wave devices, it's important to understand how many scenes each button can control. A scene is a grouping of multiple devices and each button on your Key Fob is capable of controlling multiple devices (aka a scene) with the push of a single button.
If you set your Key Fob up as a primary controller in the previous steps by creating a new network, each button is capable of controlling 1 individual scene.
If you added your Key Fob to an existing Z-Wave network, it can control either 1 or 2 individual scenes per button. The distinction here is whether your Key Fob is Use (Group) Mode or in Use (Scene) Mode. In Use (Group) Mode, you can control 1 scene from each button. In Use (Scene) Mode you can control 2 different scenes from each button.

The following sections give directions on creating scenes relative to how your Key Fob is setup.

Your Key Fob is a primary controller.

In this mode, each of the 4 different scenes which your Key Fob can control will need to be manually programmed.

Please refer to the 'Selecting which devices to control' section of this guide for a step-by-step instruction on how to do this. Your Key Fob is a secondary controller.

By default your Key Fob, when added to an existing network, is in Use (Group) Mode. To change the mode please refer to the 'Setting your Key Fob's use mode' under the 'Advanced Function' section of this manual.

Your Key Fob is in Use (Group) Mode.

In order to program each button of your Key Fob, please refer to the 'Selecting which devices to control' section of this guide.

Your Key Fob is in Use (Scene) Mode.

In this mode, your Key Fob communicates directly with your Z-Wave network's primary controller, generally a gateway or hub. By pressing each scene button,

your Key Fob will send out a scene ID telling the primary controller to activate customized scenes that need to be setup via your controller's interface. Please refer to your primary controller's user manual for instructions on how to program individual scenes and how to activate these with your Key Fob.
Using your Key Fob.

With your Key Fob now setup, it's time to use it. That's as simple as pushing a button to activate or deactivate scenes. If your Key Fob is in Use (Scene) Model, the following table illustrates the button presses your remote will understand in order to control 8 different scenes with only 4 buttons.

Advanced functions.

Adding devices to your Z-Wave network.

Your Key Fob has been designed with the ability to add Z-Wave devices to its network. During the following setup process, you need to ensure that your Key Fob is in Setup Mode. Refer to 'Change your remote's mode' for instructions on how to change modes.
1. Press the include button, your Key Fob's green light will pulse slowly.
2. Press the Z-Wave button on the device that you wish to add. If you're unsure of how to do this, refer to its user manual
3. Once the inclusion is successful, the green light on your Key Fob will stay lit for 2 seconds and then blink again. Otherwise, the red light on your Key Fob will stay lit for 2 seconds before the green light blinks again.
4. Repeat step 2 for any other devices you wish to add to your network.
5. Once you're finished, press any button on your Key Fob to exit this mode.

Removing devices from your Z-Wave network.

Your Key Fob is capable of removing devices from your Z-Wave network when it is either your network's primary controller or your network permits your Key Fob, as a secondary controller, to permanently remove devices.
1. Press your Key Fob's remove button. Your Key Fob's red light will pulse slowly.
2. Press the Z-Wave button on the device that you wish to remove. If you're unsure of how to do this, refer to its user manual.
3. If the removal is successful, the green light on your Key Fob will stay lit for 2 seconds and then its red light will blink. Otherwise, the red light will stay lit for 2 seconds before again blinking.

4. Repeat step 2 for any other devices you wish to remove from your network. 5. Once you're finished, press any button on your Key Fob to exit removal mode.

Selecting which devices to control.

Your Key Fob has two use modes, Scene Mode and Group Mode. When in Scene Mode, your select which devices your Key Fob can control by using your primary controller, generally a gateway or a hub.

If in Group Mode, you configure your Key Fob to directly control devices as follows;

1. Press and hold your Key Fob button that you wish to use to control a Z-Wave device. Do not release the button until step 4. Your Key Fob's green light will blink rapidly when it's ready for the following steps.

2.Press the Z-Wave button on the device that you wish to control. If you're unsure of how to do this, refer to its user manual. If your Key Fob is able to control the Z-Wave device, its green light will stop blinking and remain solid for 2 seconds. If the Z-Wave device cannot be controlled, its green light will still keep blinking or its red light will blink only once when you short press the Z-Wave button.

3. Before you release the button, you must determine what you want it to do.

 a) If the Z-Wave device that you want to control is ON when you release the button, it will toggle the Z-Wave device on and off.
 b) If the Z-Wave device that you want to control is OFF when you release the button, it will only allow you to turn the Z-Wave device off.

If the Z-Wave device that you want to control is at a PERCENTAGE (ie. 20%, 35%, 70% power) when you release the button, it will allow it you toggle the Z-Wave device between that percentage and off

4. Release the button you held down in step 1.
5. Repeat the steps above if you wish to control more Z-Wave devices from your Key Fob. You can add multiple devices to each button in order to create a scene. You can add up to 40 Z-Wave devices to each button.

Removing devices from a button.

You can disassociate Z-Wave devices from a button on your Key Fob when it's in Group Mode. If you wish to do this;

1.Press and hold the button that you want to remove control of the Z-Wave device from. Your remote's green light will blink rapidly when it's ready to continue.
2. Press the Z-Wave button on the device. If you're unsure of how to do this, refer to its user manual.
3. If the device has been disassociated, your Key Fob's green light will stop blinking and the red light will stay illuminated.
4. Release the button you held down in step 1.
5. Repeat the above steps to remove other Z-Wave devices.

Resetting your Key Fob.

Your Key Fob can be reset to default factory settings with ease .
1. Press and hold the Mode button for 20 seconds with a pin.
2. The green and red light will alternate for 20 seconds, then the green light will stay solid for 2 seconds to indicate a successful reset.

Setting your Key Fob's use mode.

Each brand of Z-Wave gateway / hub has its own unique method for setting your Key Fob's user mode as a Group or Scene controller. Please refer to your gateway's user manual for detailed instructions on this. In some cases, you will need to utilise the technical parameter settings available in your Key Fob.

Parameter 250 [1 byte] = 1

1. Go to the parameter settings page, specific to your Key Fob, within your gateway's user interface.
2. If it does not already exist, add a new row or column to add Parameter number 250.
3. Set the size of the parameter to be 1 byte.
4. Set the value in order to place your Key Fob into Group or Scene Mode. Group Mode has a value of 0, Scene Mode has a value of 1.

Technical specifications.

Model Number: ZW088
Battery: lithium cell CR2450 3 volt battery Operating temperature: -10 C to 50 C
Relative humidity: 8% to 80% Operating distance: Up to 300 feet/100 metres outdoors.