



## QUICK SETUP GUIDE

# Wi-Fi Smart Garage Door Controller

DWH-01 Rev. 1.3

## PACKAGE CONTENTS

- Garage door opener controller
- Door sensor
- Motor control cable
- Quick Setup Guide

Before using your product, please read these instructions to prevent damage.

# COMPATIBILITY REQUIREMENTS

## Garage Door

- Your garage door wall control inside your garage does NOT have a learn button  
*Note: Compatible wall controls are likely a single- or three-button design. Check with your garage door opener manufacturer for more information.*
- Sectional, roll up garage door (does not work with one-piece or swinging-door-style garage doors)

## System requirements

- Home Wi-Fi network
- Setup HomeKit app ( e.g.: Elgato Eve)
- To control this Apple HomeKit-enabled accessory, iOS 10.3.2 or later is recommended.  
Compatibility: iOS 10.3.2 or later

# SAFETY INFORMATION

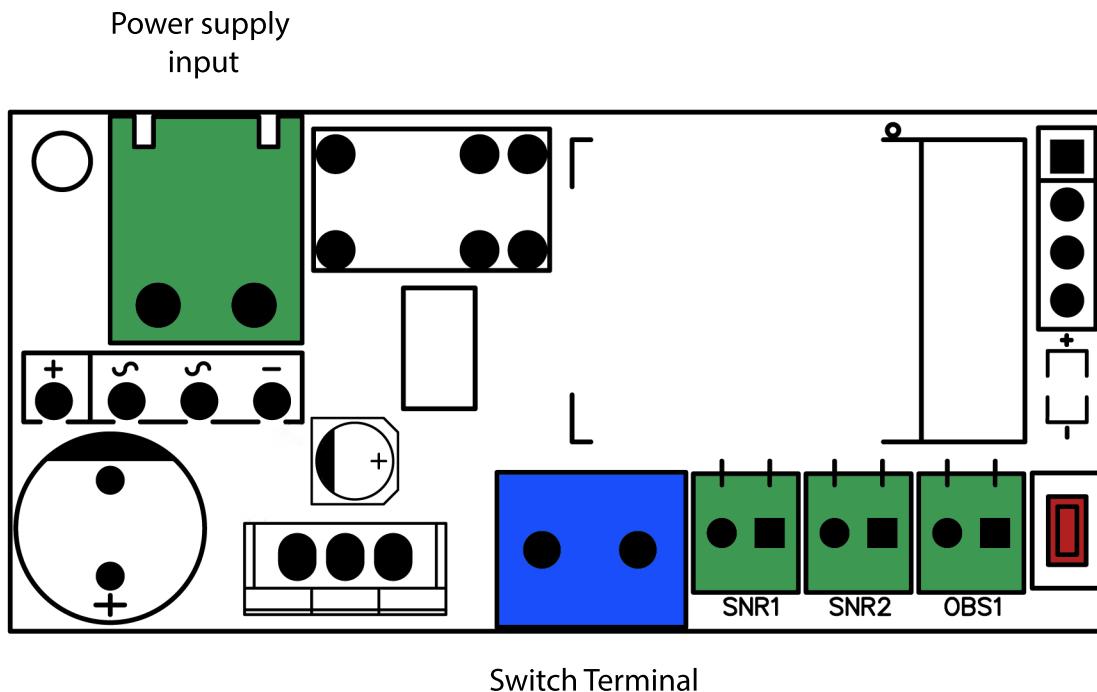
- **WARNING:** To reduce the risk of injury to persons, only enable [+] feature when installed with a sectional door, where + is the unattended operation function.
- For use only with garage door openers complying with UL 325, manufactured after 1993.
- **DO NOT** install this door control module on garage door openers controlling one-piece ot swing doors.

# INSTALLING GARAGE DOOR SENSOR & CONTROLLER

## Connections:

- Power supply -> Input voltage 24V AC MAX or DC12V
- SNR1-> Door closed sensor.
- SNR2 -> Door opened sensor (Optional, but recommended).
- OBS -> Door obstruction sensor (Optional. When obstruction is detected, relay is disabled).
- Switch terminal -> Two motor cables that connects your garage door with the Wi-Fi module
- RESET button -> The factory reset button marked as red

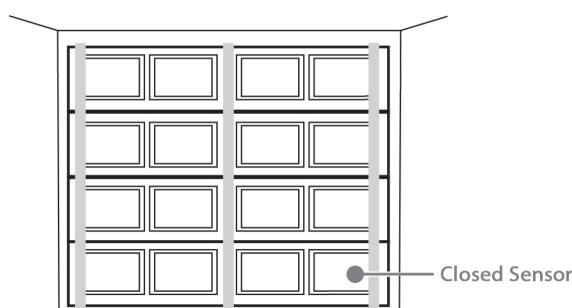
**Note:** At least closed sensor is **necessary** because if you don't use it, HomeKit doesn't know real door status when it is opened with the factory RF remote.



## Attach the door sensor(s)

**1** Close your Garage door. Decide whether to attach the sensor(s) to your garage door with screws and adhesive tape. Clean the area if you using adhesive. It should be attached to the inside of the garage door.

**2** The Door Closed Sensor (labeled SNR1) is necessary for proper operation. Place the sensor for contacting when the garage door is closed.



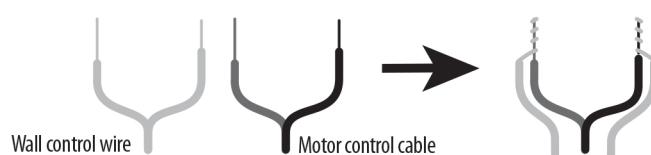
## Connecting the controller

- 1 Connect your iOS device to your home Wi-Fi network, and then hold it next to the ceiling power outlet near your garage door motor. Use your mobile device to make sure that Wi-Fi signal is strong.
- 2 Close your garage door.
- 3 Disconnect the power to your garage motor by unplugging it from the ceiling power outlet. If your garage motor is hardwired, locate your circuit breaker and turn the power to your garage off. After the power is disconnected, try to operate the garage door with the wall-mounted button (if available) to make sure that the power is off.
- 4 Place the module near the Garage opener and power the module. If your garage door has 24V AC output, you can use your Garage Opener to power up the module. If your Garage Opener doesn't have output, use an external 12V DC power supply.

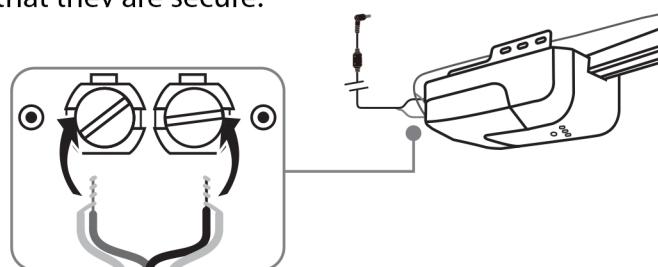
- 5 Connect the motor cable to your Garage motor. Motor cable goes from the module's "Switch Terminal" to your Garage motor.

**A** Follow the wires back from the terminals to identify which two wires connect to your garage door wall control button.

**B** Loosen a terminal with the screwdriver, then twist a wall control wire together with the motor control cable.



**C** Secure the wires back under the terminal with a screwdriver. Pull on the wires slightly to make sure that they are secure.



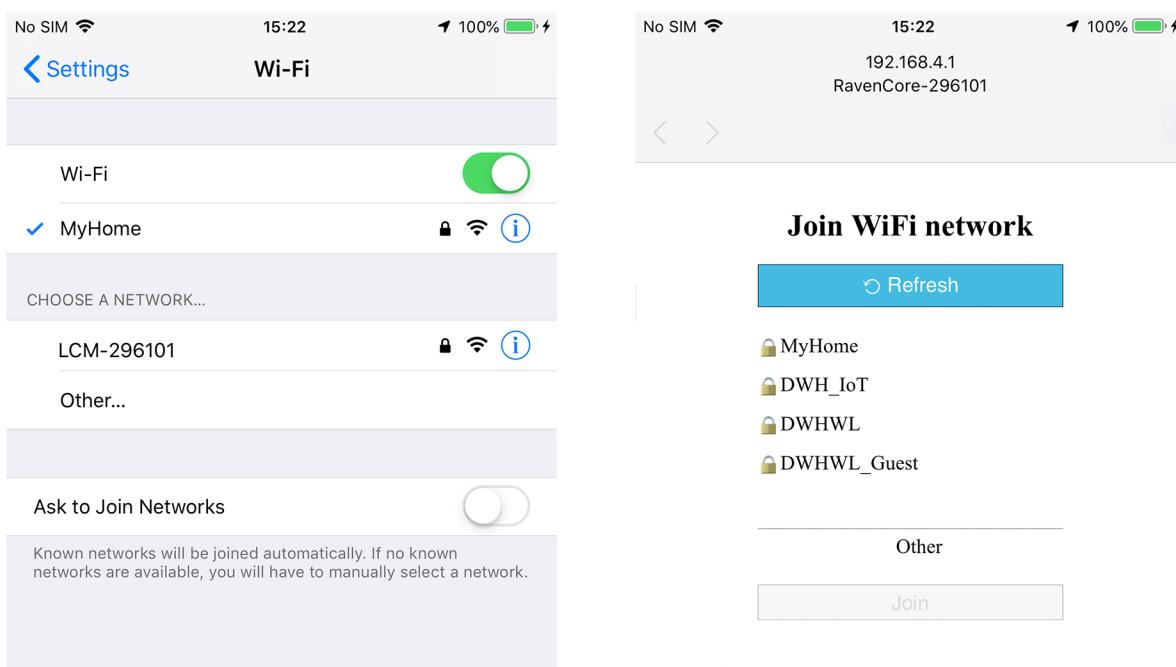
**D** Repeat step B-C to connect the second motor control cable.

**Note:** If your garage door doesn't have wall controller, contact your garage door's manufacturer and read the user manual. Most garage openers have terminals for connecting external button.

- 6 Follow the instructions at "CONNECT TO WI-FI" page.

# CONNECT TO WI-FI

- 1 After powering up the module you must configure wifi network. To configure wifi settings, device generates its own WiFi in AP mode. You must connect to it in order to setup your wifi network. Simply take your iOS device, go to Setting -> Wi-Fi, and search a SSID with LCM- or RavenCore- followed by your device's MAC address. Connect to it and wait a few seconds until a web appears showing you all wifi networks that the device has found. Select yours, and enter your Wi-Fi password.
- 2 To finish initial setup, click Join button and wait about 7 minutes until process finish. After that, LED turns on for a couple of seconds and you will be able to add your accessory to your HomeKit ecosystem using Home App.  
**Note:** while installation is working, device doesn't show anything, and buttons don't work. If the accessory unreachable after more than 10 minutes, unplug and replug the power and wait 7 minutes again. If installation fails, you must start all process again from step 1.



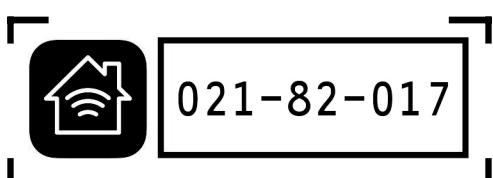
## HOMEKIT SETUP PROCESS

You can control your Smart Garage Door Controller with Apple Home app. In your iOS device, open Home App and follow normal steps to add a new accessory.

Pairing setup takes about 30 to 60 seconds.

**Note:** If pairing fails, you can unpower your device, repower it, and start HomeKit setup again (Wifi settings keep configured).

### Your HomeKit Code:



# USER SETTINGS

This module can be customized using Eve for HomeKit App.



Download Eve app

## Show Setup [Default: ON]

Reboot required when changed. An automatic reboot is performed when set to ON after 5 secs.

Show a virtual accessory that let you to configure your main accessory.

### VERY IMPORTANT:

It is highly recommended that you disable it when you finish the configuration.

## Board Type [Default: 1]

Board type must be set to 1.

Reboot required when changed, so set the Reboot option to ON.

## Device Type [Default: 1]

Device Type must be set to 8.

Reboot required when changed, so set the Reboot option to ON.

## Button Filter [Default: 0]

Reboot required when changed.

Determines the grade of hardness of the interferences filter used to manage buttons, toggles and reed sensors. 0 is the softest value, with a quick response, and 200 is the hardest with a slow response. Higher values are recommended when sensors are used for garage door.

## Reboot [Default: OFF]

When set to ON, a reboot is performed after 5 secs.

## Wifi IP Addr

Shows actual IP address for device wifi network interface.

## Wifi Reset [Default: OFF]

Reboot required when changed.

Set it to ON to remove actual wifi settings with the next reboot.

## Firmware Update [Default: OFF]

When set to ON, after 5 secs device reboot and load OTA firmware that search for new version of firmware. If a new version is found, it will be downloaded and installed (This process can take some minutes). After you activate it, close EVE App, open Home App and wait until accessory become responsive again.

**Note:** Firmware updates may contain bugs, do it by your own risk! Sometimes, device keep in Firmware Update process (no AP mode and no response). If you push device button and LED doesn't turn on, device is in Firmware Update mode, and the only way without refresh is to wait 5 minutes, power off and on again, and wait 5 minutes, doing this until device button turn on led again, indicating that device has loaded RavenCore firmware instead OTA firmware. You can check the firmware version number in details of your device, in Home App.

## Reverse SW[1-4] [Default: OFF]

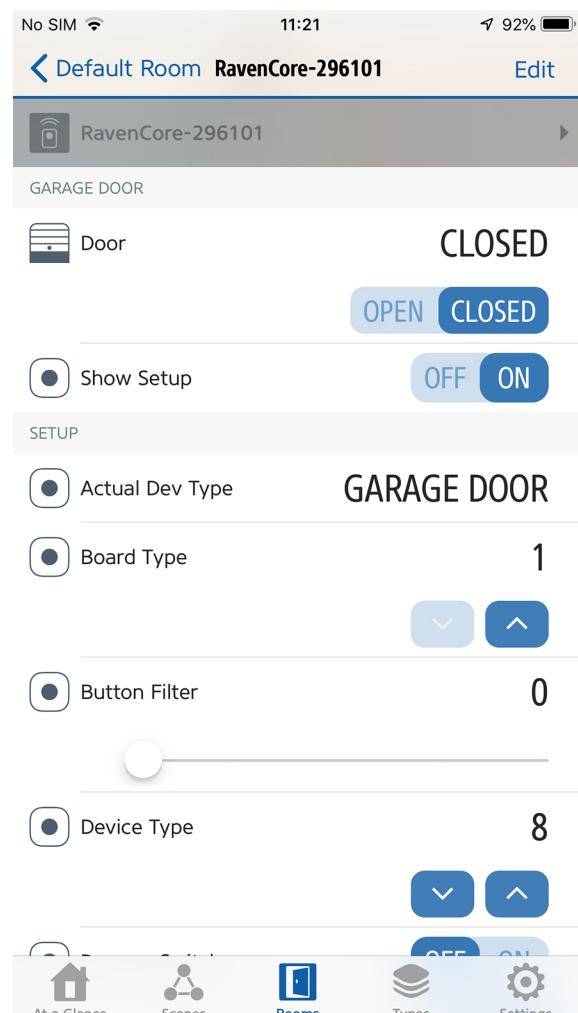
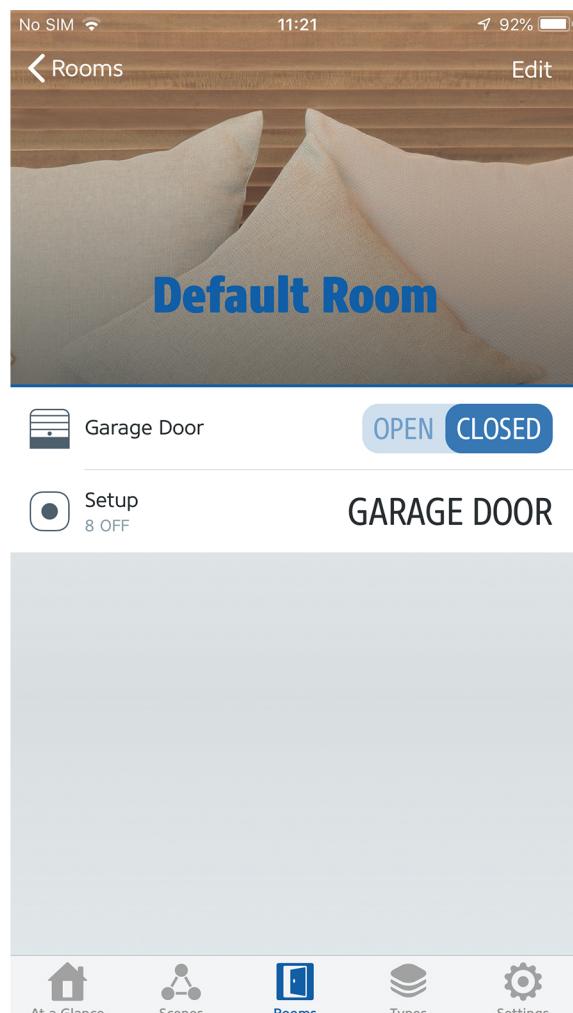
Configure relay to set the opposite state of the HomeKit switch.

## Dummy Switch [Default: OFF]

Reboot required when changed.

When set to ON, it creates a virtual HomeKit switch that doesn't control any relay, and appears as an additional accessory. It is useful for complex automations.

**Important note:** Dummy Switch has a different function when is used with Garage Door device type.



## Connections:

- SNR1-> Door closed sensor.
- SNR2 -> Door opened sensor (Optional, but recommended).
- OBS -> Door obstruction sensor (Optional. When obstruction is detected, relay is disabled).

At least closed sensor is **necessary** because if you don't use it, HomeKit doesn't know real door status when it is opened with the factory RF remote or wall push-button. And the idea is the possibility to get notifications when your garage door is opened, for security purposes.

When obstruction sensor is triggered, HomeKit system is notified and relay is disabled to avoid possible damages until obstruction is removed.

If Dummy Switch is enabled, it is used to securely lock your garage door.

## Has Opened Sensor [Default: 0]

Reboot required when changed.

Indicates if a sensor is connected to SNR2 to control door status when is completely opened.

Sensor type:

- 0 Not used
- 1 NO: Normally-Opened
- 2 NC: Normally-Closed

## Has Stop [Default: ON]

If your garage door stops when is moving and you push action button, you must set it to on.

## Sensor Close NC [Default: OFF]

Reboot required when changed.

If your GPIO14 sensor is NO (Normally Opened), set it to OFF; but if your sensor is NC (Normally Closed), set it to ON.

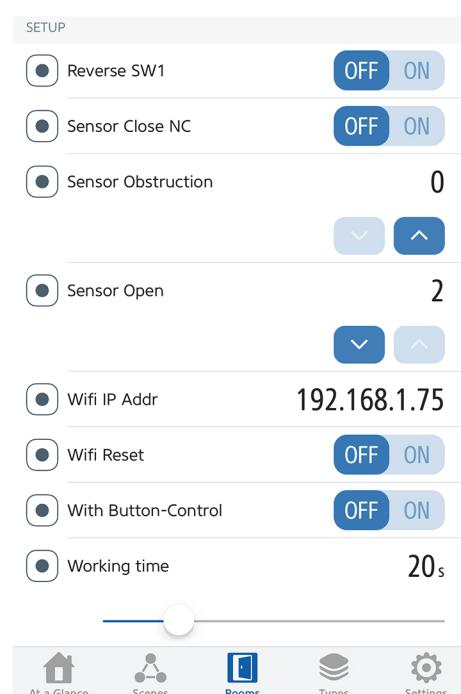
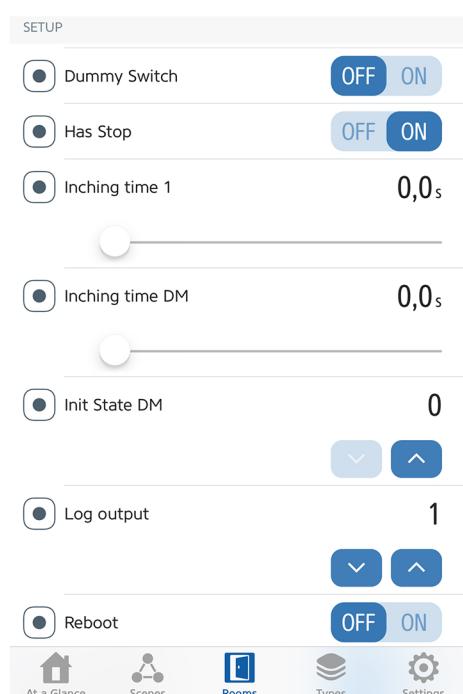
## With Button-Control [Default: OFF]

By default, built-in RESET button only works to perform a factory reset (Holding it for 10 seconds);

If you want to use it for control your garage door, set it to on. It's recommended to keep it turning off to avoid any kind of interference and avoid undesired openings, for security purposes.

## Working Time [Default: 20]

If an opened sensor is not used, it's necessary to set the time that garage door need to perform a complete opening operation. Requires Has Opened Sensor = OFF. The time is in seconds.



# TROUBLESHOOTING

## Resetting device to factory defaults

Within first minute since device boots, wait about 5 seconds to allow device to boot completely, and then toggle any switch quickly (from Home App or from external switch labeled as RESET) at least 10 times. All configured settings will be removed and the device is restarting. This removes **both** HomeKit and wifi settings, and your device will go to Access Point mode next time in order to reconfigure wi-fi as in Step 1.

## Reconnecting to Wifi network

If wifi network becomes unreachable, device will keep searching wifi automatically until it can connect again when wifi becomes available.

## Entering Wifi AP mode

When a power cycle occurs, device will try to connect to its known wifi network. If after 5 minutes wifi network is unreachable, device will enter in AP mode so you can connect to it and reconfigure wifi settings.

