

houEvolve
Garage Door Controller
User Manual and Installation Guide

Introduction

Thank you for purchasing a FREEVOLVE® product. We designed it to provide you with years of reliable service.

The following setup instructions will help you get up and running quickly. While we hope all our products are self-explanatory, the enclosed user guide should cover all questions you may have. Please refer to the “Support” section of our website – www.freevolve.com – for additional information.

Warranty Information

All FREEVOLVE® products are covered against manufacturing defects for a period of 2 years from the date of purchase. During the warranty period we will replace any defective unit free of charge.

The warranty does not cover any problem caused by accident; abuse; neglect; improper installation, operation or modification; any misuse contrary to the instructions in this user guide.

Installation and Configuration

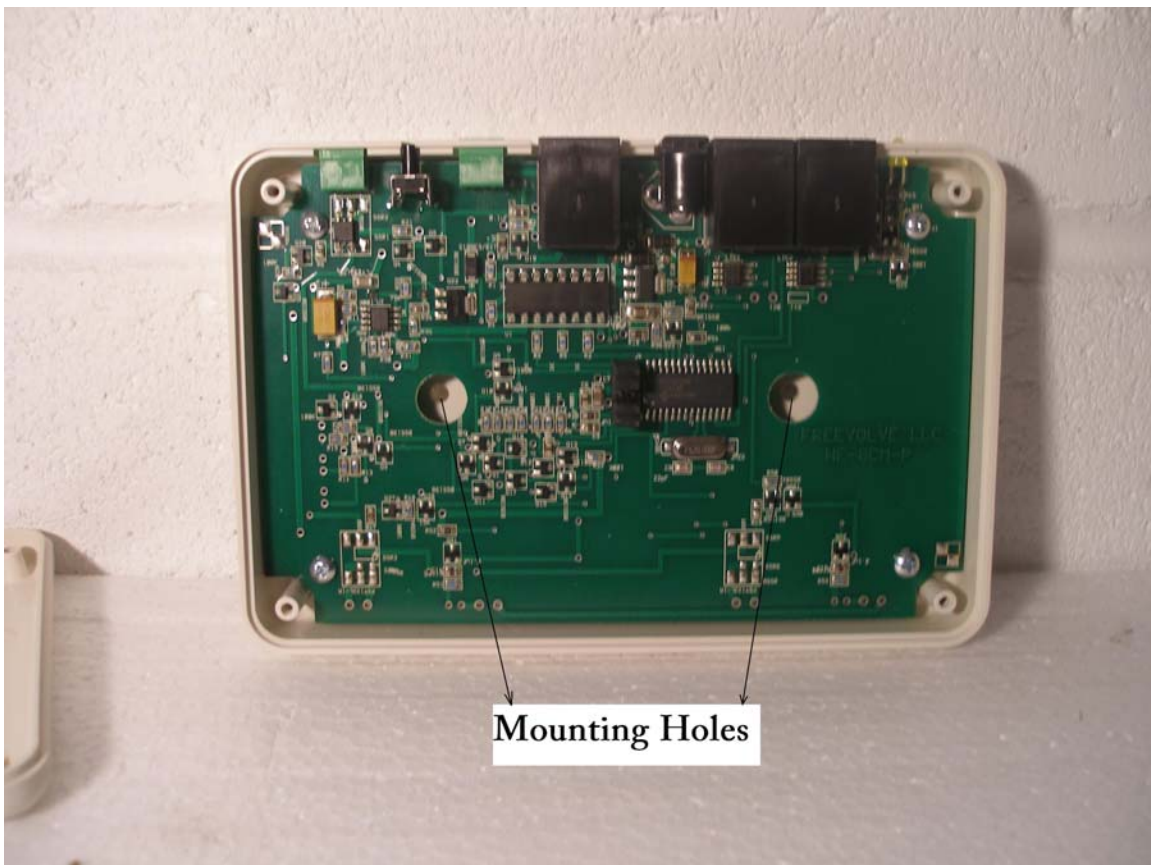
The Garage Door Controller is supplied with:

- two 25ft network cable
- one 25ft signal cable
- one 3ft signal cable
- one network termination plug
- two 3-inch wood screws
- two 1-inch mounting screws
- two 2-inch mounting spacers
- one magnetic proximity sensor and associated actuator mounting hardware.



1. Installation

- We recommend that this installation be performed by a qualified person.
The housEvolve Garage Door Controller was designed to be compatible with all garage door opener brands.
- Unplug your garage door opener.
- Open the cover of your housEvolve Garage Door Controller by removing the 4 retaining screws. Note the location of two mounting holes as shown below:



- The Garage Door Controller can be mounted on any accessible location (wall, ceiling, etc). In this example we decided to attach the Garage Door Controller directly to the case of the Garage Door Opener. For this, one of the Garage Door Opener case screws was removed and then re-attached through one of the Garage Door Controller mounting holes:



- Replace the cover to the Garage Door Controller



- Door proximity detector: The Garage Door Controller relies on information provided by the proximity detector to relay door position information to the Main Controller (Door Open/Door

Closed). The image below shows the two proximity sensor elements:

- i. The Contact element, identified by the presence of two screw-type wire terminals
- ii. The magnetic element, identified by the absence of any terminals



- The Magnetic Element must be mounted somewhere on the Garage Door and the Contact Element must be mounted somewhere on the Garage Door so that:
 - i. The Magnetic Element must be parallel with and at a distance of less than 1.5in from the Contact Element when the Garage Door is closed
 - ii. The Proximity Sensor must not obstruct the garage door movement in any way



- In this installation example, the Contact Element is mounted above the garage door (on the door frame), at a height that ensures unobstructed door motion (the garage door's tracks begin pulling the door away from the frame by the time the top edge of the door becomes parallel to the Contact Element). The Magnetic Element is mounted on the top edge of the door, at a height that places it within the required distance and alignment of the Contact Element when the door is fully closed:



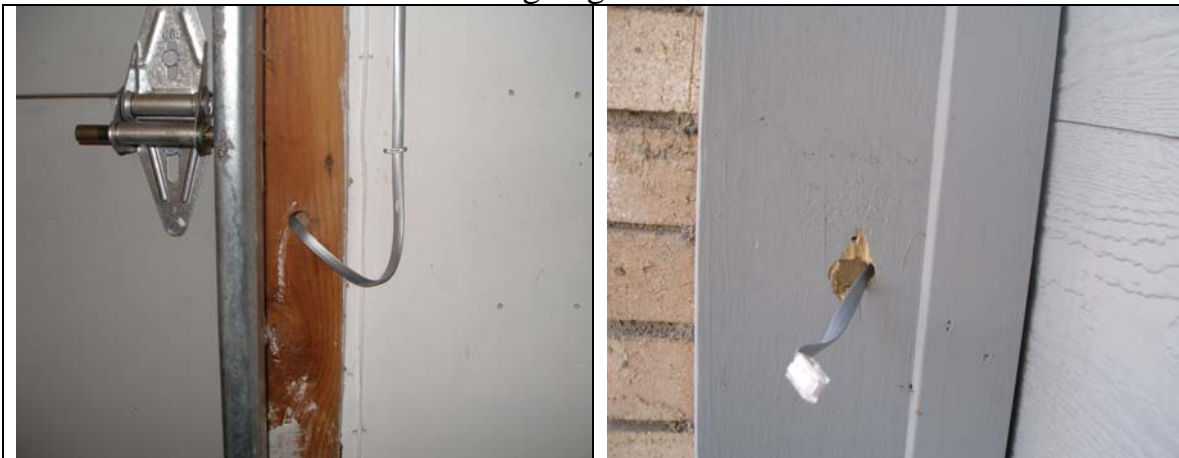
- If your Garage Door Controller Module is equipped with the optional Access Keypad Module (see below), please follow the next steps to install it:



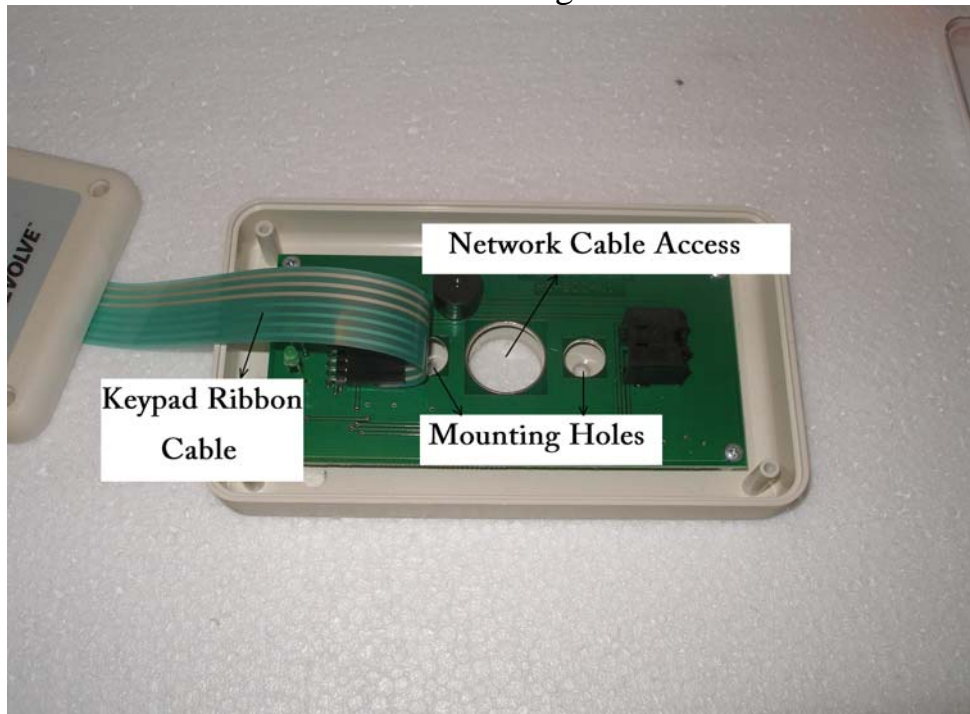
- 1. Using a 5/8" wood bit, drill a hole through the side of the garage door frame at the desired height at which the Access Keypad Module will be mounted (enclosure center).



- 2. Feed the end of one of the 25ft network cables provided through this hole so that about a 6in length of cable is available on the outside of the garage door frame.



- 3. Open the cover of the Access Keypad Module by removing the 4 retaining screws. Note the position of the keypad ribbon cable inside and the two mounting holes:



- 4. Disconnect the Keypad Ribbon Cable from the Access Keypad Module's Circuit Board. Feed the protruding network cable through the Network Cable Access hole and mount the device to the Garage Door Frame.



- 5. Connect the network cable to the Circuit board and pull the excess cable back through the door frame.



- 6. Re-connect the ribbon cable to the Circuit Board

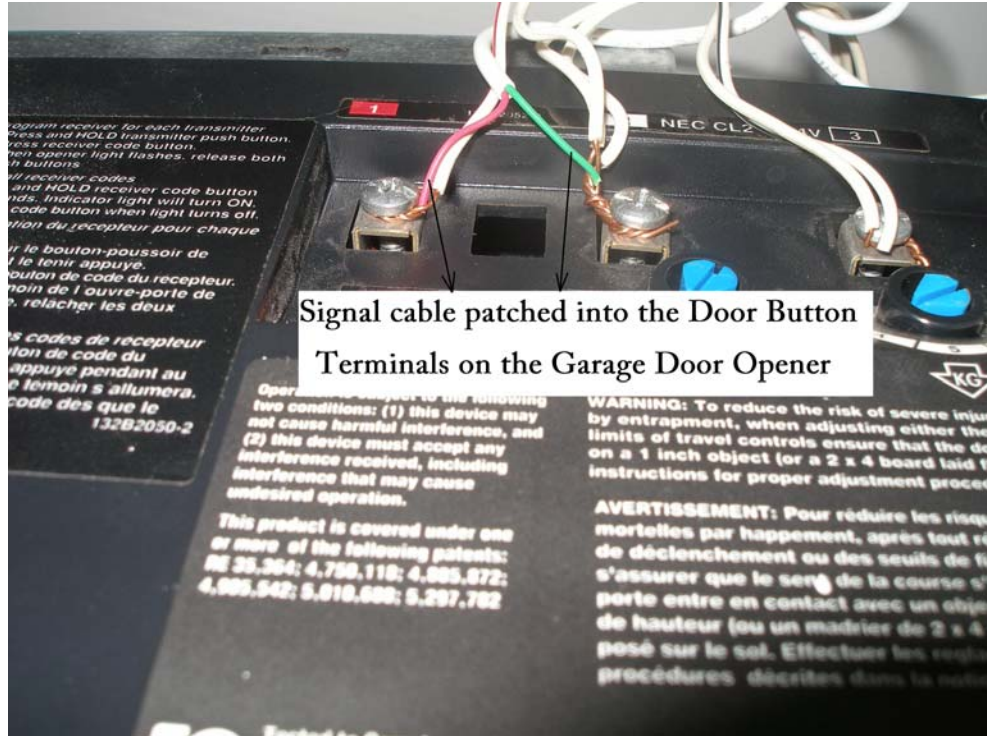


- 7. Carefully replace the Access Keypad Module Cover and the four mounting screws.



- Connect the Access Keypad Module Network Cable to the “KEYPAD” port on the Garage Door Controller. Any excess cable length should be coiled and tied to one of the support arms of the Garage Door Opener. Ensure the cable is clear of the drive chain.
- Connect the 25ft signal cable provided to the “SENSOR” port of the Garage Door Controller using the pre-attached connector. Run this cable to the Contact Element of the proximity sensor. Cut off or coil any excess cable, strip about 0.5” of wire on each conductor and connect the cable to the Contact Element of the proximity sensor.
- If the Garage Door Controller is part of a housEvolve system, use the second Network Cable provided to connect one of the “SYSTEM” ports to the housEvolve network. The remaining “SYSTEM” port should be connected to the Network Termination Plug provided or to another housEvolve component.
- Trace the cable connecting your Garage Door Opener to the Door Open/Close button. Note the two terminals where this cable connects to your Garage Door Opener. Connect the 3ft

signal cable provided to the “DOOR” port of the Garage Door Controller using the pre-attached connector. Run this cable to the Garage Door Opener terminals identified above. Cut off or coil any excess cable length, strip off about 1” of wire on each of the two conductors and connect each one to one of the Door Button terminals:



Here is the installed Garage Door Controller:



2. Testing the Garage Controller Installation

Power up the Garage Door Controller by connecting it to an active houseEvolve network. The yellow light next to the SYSTEM ports should be ON, (indicating network power). The green light next to the SYSTEM ports will blink about once a second. If the device is a stand-alone installation, use the enclosed 15V DC adapter. Note that the SYSTEM lights will be off because there is no network connection detected.

Manually close the Garage Door. The proximity sensor should engage and the green light next to the SENSOR port should be ON. If the Sensor light is not ON, check

- that the Garage Door Controller is powered
- that the Magnetic and Contact Elements of the proximity sensor parallel and within 1.5in of each other

- the connections at both ends of the sensor cable

If installed, check the Access Keypad Module. The yellow light should be blinking (if no password is defined) or the green light should be ON (if password is defined).