

AC MOTOR CONTROL MODULE GC274C

**INSTALLATION and PAIRING INSTRUCTIONS
REV.12302015**



RV AWNING PRODUCTS

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Girard Systems awnings may be operated in light wind and rain conditions. When periods of heavy rain and or high wind are expected the awning must be closed. Never leave the awning open and unattended.

Damage caused by wind and rain is not covered by warranty.

All awnings must be closed prior to moving the vehicle for any reason. As an extra safety precaution a visual check that every awning is fully closed is required.

Damage caused by failure to comply with these instructions is not covered by warranty.

Before using your awning, ensure that the area into which the awning will be deployed is free of obstructions (Trees, walls, pillars, posts, other vehicles etc.)

Damage caused by collisions with any of the above or similar is not covered by warranty.

Before using your awning make sure that all of your electrical circuits are operating correctly. Recreational Vehicles can generate AC power from three separate sources. The electrical system transfer switch in your vehicle will select power for the awning as follows:

Shore Power – if connected;

Generator Power – if the generator is running;

Inverter Power – batteries must be charged for inverter operation.

Girard Systems awnings are supplied with an electric motor appropriate to the product.



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THE G-LINK SYSTEM

The G-Link motors and control modules provided by Girard Systems communicate by use of RF signals on a frequency of 433.92 MHZ. This eliminates the need for wiring and the drilling of holes in the vehicle. These components must be electronically matched, programmed or paired before use. This is usually done at the Girard Systems factory. Should the need arise for the user to pair a device with the motor controller they must refer to the appropriate manual for the devices applicable to their particular installation.

PRODUCT DESCRIPTION

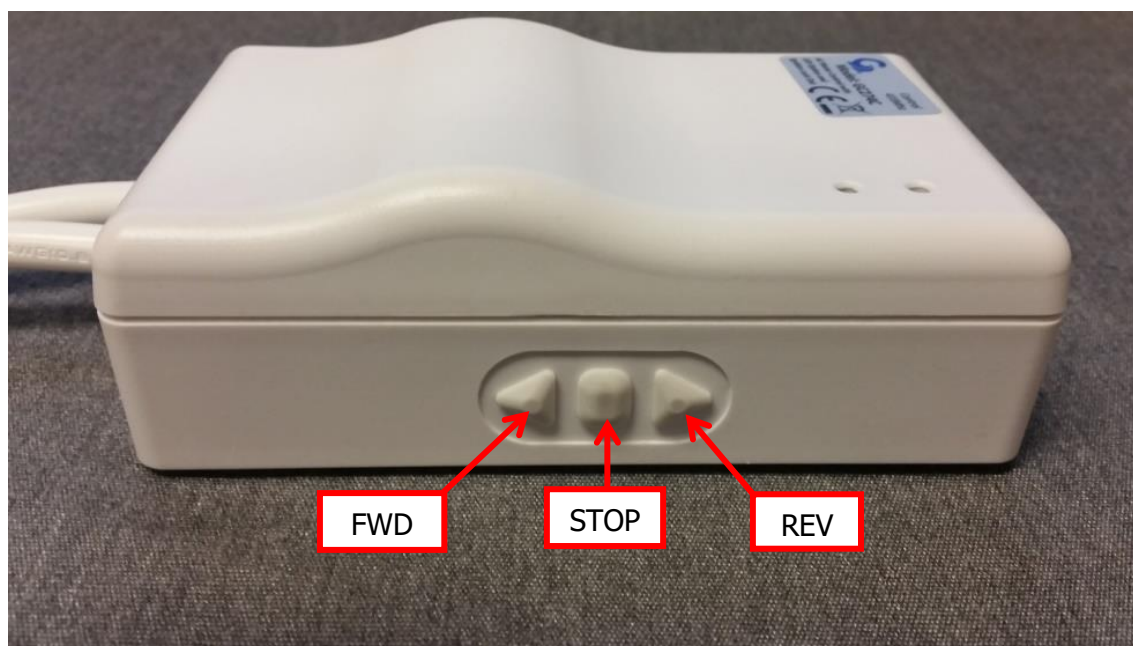


Fig.1

This module is designed to control a single Standard 110v AC Motors UP to 8 Amps. It can be remotely operated with any paired G-Link handset or wall switch. The controller will receive signals from a distance of more than 500ft in open air and more than 100ft in the presence of obstructions. The RF transmission frequency is 433.92MHZ.

The awning may be operated from the **GC274C** using the FWD/STOP/REV buttons (see figure 1.). The direction of travel of the motor can be reversed without the need of changing the wiring by pressing the Left and Right buttons of the module simultaneously for least 6 seconds.

The **GC274C** may be programmed with up to 20 compatible remote modules. If an additional module is programmed it will replace the most recently programmed module. The previous 19 modules will remain unchanged.

The **GC274C** operates in Continuous mode.

Continuous mode means that a single press of the button on the module or the Remote handset will cause the Awning to move in the chosen direction until the limit switch is actuated, unless the Stop button is pressed.



Specifications

Power: 110VAC / 60Hz

AC Input: White = Neutral / Black = Live / Green = Earth

To the Motor: White = Neutral / Red = Direction 1 / Black = Direction 2 / Green = Earth

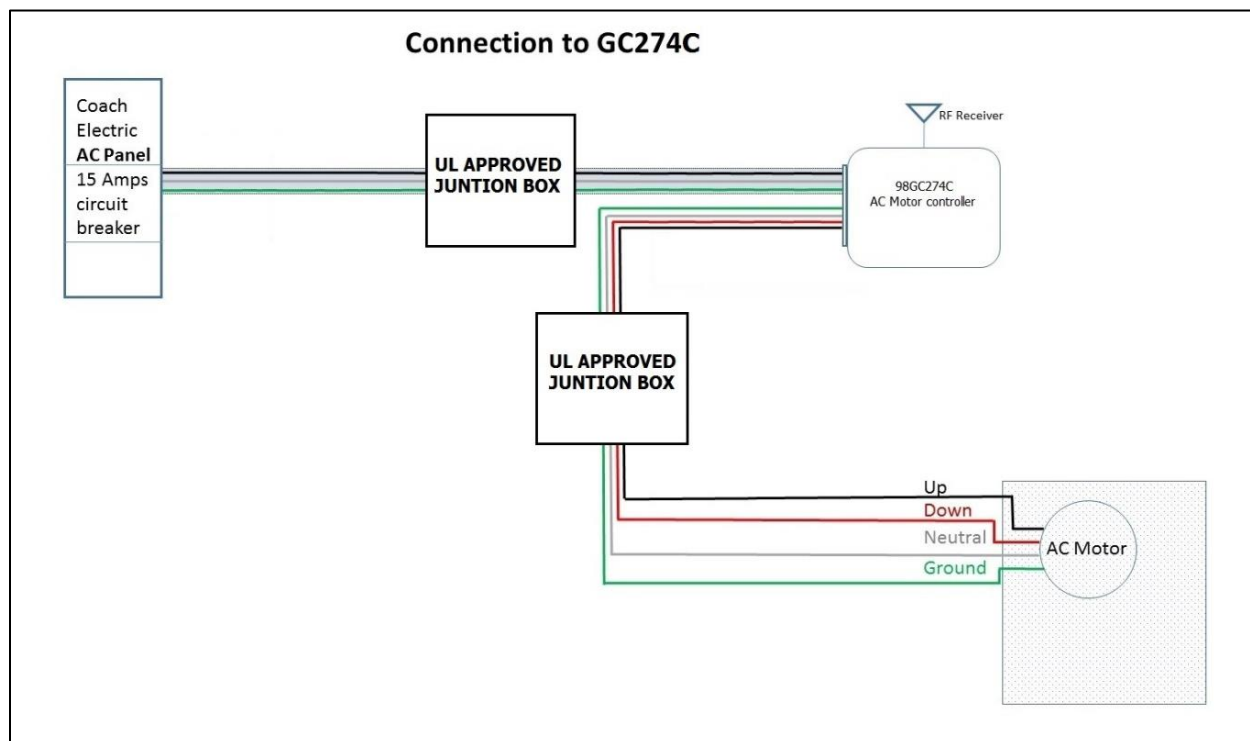
Ambient T: 0 - 130°F

Installation

A circuit breaker protected 15A/115v AC power supply is required from the Vehicles power distribution panel as shown in the diagram below.

1. Install a UL approved 110VAC junction box in which to make the electrical connections.
2. Route the Awning's Motor cable to this location and make the connections to the GC274C in accordance with NEC requirements.

Mount the GC274C on the wall using the screws and tape provided.





SETUP AND PROGRAMMING

1. Change motor direction

- a. Supply power to the **GC274C**
- b. Simultaneously press the **LEFT** and **RIGHT** buttons of the **GC274C** for at least 6 seconds. The Green LED will illuminate and then blink a few times. When the Green LED extinguishes, the operation is complete.

To access the Program Mode of the GC274C Simply press and hold the middle and right buttons of the controller simultaneously for 10 seconds. The green LED will begin to flash. Then press the stop button and the LED will remain illuminated. The module is now awaiting a signal from the remote handset. When it receives that signal the green LED will extinguish.

Note; when carrying out this part of the procedure each step must be executed within 10 seconds of the previous one or the module will revert to factory settings. It is highly recommended that you read and understand the following sequence before attempting to execute it.

2. Programming the GC274C to a Remote handset or Wall switch

- a. Supply power to the GC274C
- b. Access the program mode of the GC274 (Fig 2) the Green LED will start blinking.
- c. Press STOP (Fig. 1): The Green LED will stop blinking and remain illuminated.
- d. Press the **UP** button on the REMOTE DEVICE being programmed. The Green LED on the motor controller will extinguish.

3. Cancel one Remote from the GC274C

- a. Supply power to the GC274C
- b. Access the program mode of the GC274C (Fig 2) the Green LED will start blinking.
- c. Press STOP (Fig. 1): The Green LED will stop blinking and remain illuminated.
- d. Press the **DOWN** button on the REMOTE DEVICE being cancelled. The Green LED will extinguish.

4. Cancel all of the Remotes from the GC274C

- a. Supply power to the GC274C
- b. Simultaneously press the **STOP** and **LEFT** button of the GC274C for at least 6 seconds: The Green LED will first illuminate and then blink a few times. When the Green LED extinguishes the operation has been completed.

5. Programming the GC274C to a Dry Contact Module GC1149A

MODES OF OPERATION

The GC1149A has 3 modes of operation;

1. Continuous Mode (Default) – A single press of a command button will allow the awning to fully extend or retract unless interrupted by the STOP button.
2. Step Mode (Selected) – The command button must be held down to allow the awning to fully extend or retract. The motor will stop as soon as the command button is released.
3. Secondary Continuous Mode (Selected) – A single press of a command button will allow the awning to fully extend or retract unless interrupted by pressing either the same command button or the stop button.

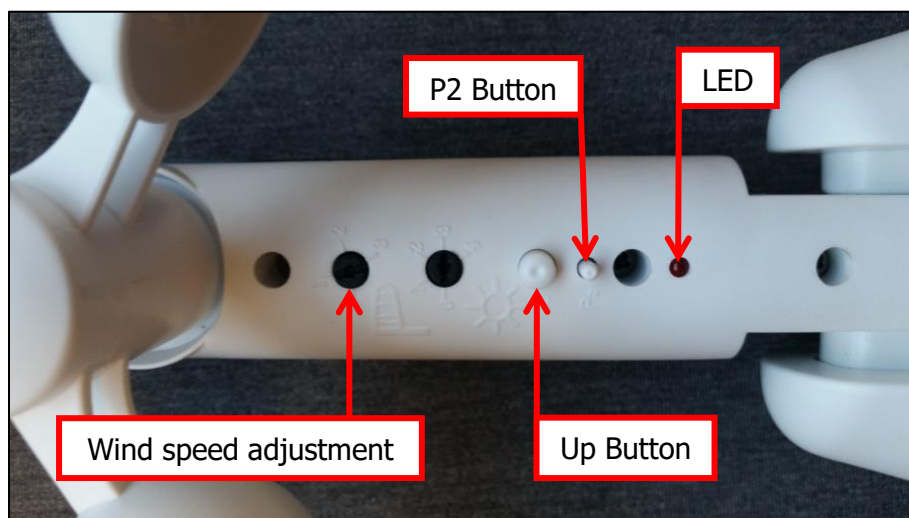
To select each mode the module must be connected to a 12v power supply.

- Use a small screwdriver or similar tool to press and hold the SET button, a blue/purple LED next to the set button will begin to flash 5 times slowly and then ONCE quickly to indicate the DEFAULT mode.
- Continue to hold the set button (for about 12 seconds) until the LED flashes TWICE quickly. This will select the STEP mode.
- Continue to hold the set button (for about 20 seconds) until the LED flashes 3 TIMES quickly. This will select the secondary continuous mode.



NOTE:

- **Before starting this procedure the GC274C must be without power (OFF) for at least 10 seconds.**
 - **During the programming function the interval between each step required must be less than 10 seconds**
- a. Connect the Dry Contact Control Module (GC1149A) to 12 Volts DC (Fig.1)
 - b. Make sure that the motor controller is powered ON
 - c. Access the program mode of the GC274C.
 - d. Press the Retract button on the dry contact or using a small jumper from Common to Retract, which will link the GC1149A to the motor controller: The Green LED on the GC274C will extinguish.
 - e. Note: Blue / purple light will flash on the GC1149A every time it transmits.
 - f. Try to operate the Awning by using the system or by using small jumpers from common to retract terminal. If the Awning does not move, repeat steps "a" to "e".

6. Programming the GC274C to an Anemometer (98GC116I)

- a. Set the wind speed adjustment dial of the anemometer to between 1-2.
- b. Supply power to the GC274C and the GC116I(Leave them on if already on)
- c. Press the PROGRAM button on the GC274C (the Green LED will start to blink)
- d. Press the STOP button on the GC274C (The Green LED will remain illuminated)
- e. Press the UP button on the GC116I.
- f. Extend awning using a Manual Remote Control and press the UP button again on the GC116I to verify that the unit is working properly (the awning should Retract)

7. Programming the GC274C to a Motion Sensor (98GC779G)

This procedure will require opening up the motion sensor module by following the directions below;

- a. Remove the 2 small cross head screws which secure the motion sensor to the mounting bracket. See Fig.1.



Fig.1

- b. Detach the motion sensor from the bracket, the base plate is magnetized so will need to be gently lifted off. Then turn it over. See Fig.2.



Fig.2

- c. Remove the 4 cross head screws holding the module together. Remove the back plate and silicone insert. See Fig.3.

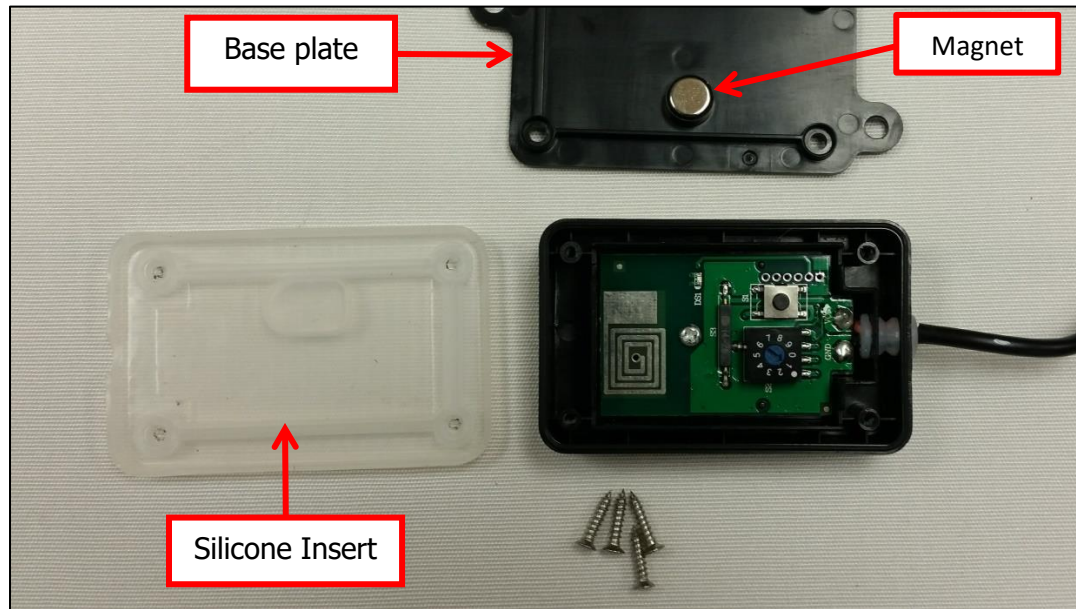


Fig.3

- d. Turn the base plate over (Magnet down). Then place the motion sensor on top of it so that the magnet is aligned with the reed switch. See fig.4. **If this is not done the default program cannot be changed.**

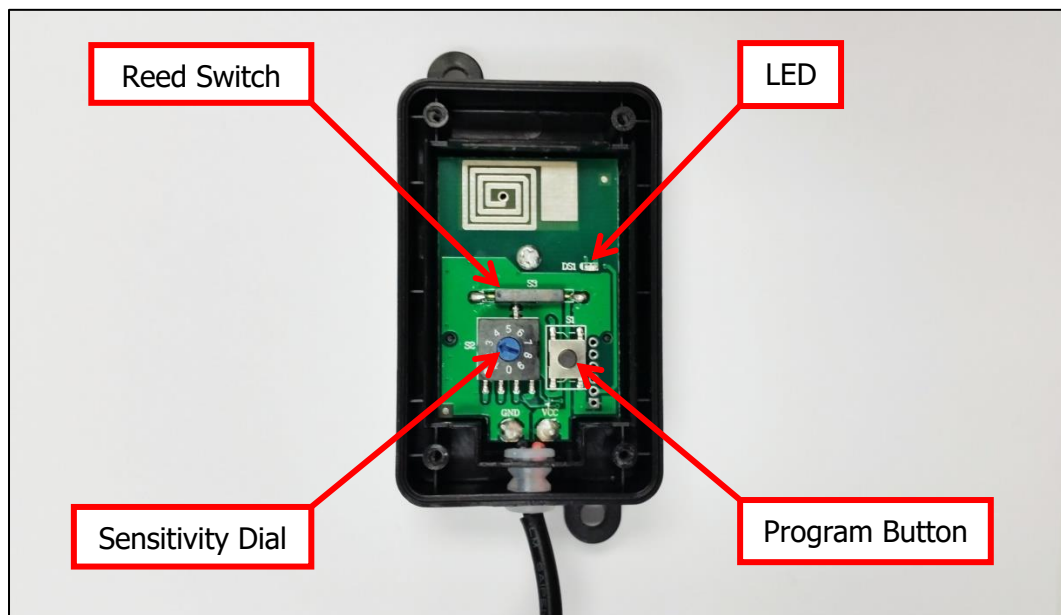


Fig.4



Note; when carrying out this part of the procedure each step must be executed within 10 seconds of the previous one or the module will revert to factory settings. It is highly recommended that you read and understand the following sequence before attempting to execute it.

- a. Set the Motion sensor Adjustment Dial to level 5. (See Fig.4)
- b. To initiate the programming sequence, power to the motor controller must be disconnected for at least 10 seconds then reconnected.
- c. Connect the GC779G Motion sensor to a 12volt DC circuit. At this point the Purple LED will illuminate and then begin to blink. If it does not, the module is not receiving the correct power. Ensure that the magnet and reed switch are aligned and verify the electrical connection before proceeding.
- d. Press the program button on the Motor controller (see fig.6). The green LED will start blinking.
- e. Press the Stop button on the Motor controller (see fig.4). The green LED will illuminate continuously.
- f. Press the programming button on the GC779G Motion sensor (See Fig.4). Both the Purple LED on the Motion sensor and the green LED on the Motor controller will flash once and extinguish. This completes the programming sequence.
- g. Ensure that the code was accepted by pressing the Program button on the GC779G Motion sensor again. The Awning should retract.
- h. If the Awning does not retract, repeat steps a. to f.
- i. Set the Adjustment Dial to the desired sensitivity level 1 to 5. **Never set higher than 5.** (The factory setting is 3).

Once programming is complete, reassemble the motion sensor module and mount on the awning lead rail.

For queries or assistance with programming any of your G-Link devices please call Girard Systems TOLL FREE on 800-382-8442 between 7:30am and 3:30pm P.S.T.



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