

RFR120V-1MB Instruction Manual



Included in this Kit: (1) RFR120V-1MB Receiver

Available accessories:

- 12-Button Transmitter KF340-12
- Clear Protective Transmitter Pouch ZLB-67
- 6-Pack of Replacement A-23 12V Batteries for Transmitter A23-6

This receiver is a 340 MHz AC motor control and is used in conjunction with the KF340-12 Transmitter. The unit operates on 120 VAC and provides one 120 VAC output. The receiver can be configured for either momentary or latching operation. All of the electronic components are encapsulated so the receiver is capable of being operated in harsh environments. The receiver can be set up to respond to any switch or switches on any KF340-12 transmitter. Up to 42 switches can be stored in the receiver's memory. The desired switches are programmed into the receiver's memory during the programming. Each transmitter has a unique address that is transmitted along with the switch number when a transmitter switch is pressed. The receiver is housed in a NEMA-4 enclosure and encapsulated in a urethane potting compound for weatherproofing. The receiver and transmitter have an operating range of at least 100-feet. Input/output wiring is terminated to a 4-position terminal block in the receiver.

Latching or Momentary Operation: When the receiver is configured for the latching mode the relay will toggle ON and OFF each time a programmed transmitter switch is pressed. When the receiver is configured for momentary mode the relay will energize for as long as the transmitter switch is pressed.

Maximum Ratings: Input power to the receiver can be in the range of 90 to 132VAC. The relay contacts are rated at 20A at 120VAC, 1 HP.



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Programming Instructions

Each transmitter has its own unique internal address along with the data as to which button is pressed and transmitted. The receiver needs to be programmed to respond only to the specific transmitter it is intended to operate with. The following steps configure the receiver to operate with a particular transmitter. Up to 42 transmitters can be programmed to one receiver. Please read the entire programming procedure before starting. When the receiver enters program mode, all previous transmitter addresses that were programmed will be erased from the receiver's memory.

1. Locate the pushbutton labeled "PROGRAM" on the receiver. Press and hold this button until the red LED next to the program button illuminates (approximately 3 seconds). The receiver is now in the transmitter program mode. Release the button. At this point all previously programmed transmitter addresses are erased from the receiver's memory.

2. On the 12 button transmitter, press the desired switch you wish the receiver to respond to. The red LED on the receiver extinguishes and then illuminates (blinks once). Release the switch.

3. Repeat previous step for additional transmitter switches that you desire this receiver to respond to. The red LED on the receiver will blink each time a new switch is pressed.

4. Latching/Momentary: If a transmitter switch is pressed that has already been programmed the receiver mode will change to "Latching" mode. If the same switch is pressed again, "momentary" mode will be selected again. The receiver will alternate between modes each time a programmed switch is pressed. When in the "latching" mode the LED will flicker as each new switch is programmed instead of blinking off then on.

5. The receiver will return to normal mode if no transmitter switches are pressed for 5-seconds. The red LED on the receiver will blink rapidly, then extinguish. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all of its programming even when power is removed.



Wiring Diagram



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Troubleshooting

All remote-control systems shipped by GAMA Electronics are 100% functionally tested just prior to shipment.

If your RF remote control system does not work out of the box, stops working or functions intermittently please take the following steps to resolve common issues. Please note that you must be 2-3 feet away from the receiver when operating the remote control. Operating within 2-3 feet may result in no operation or intermittent operation.

1. Replace the A23 12V Battery in the transmitter

• The remote control can activate during shipping and drain the battery that is installed in the control. We send a replacement battery with the system if this occurs.

2. Check the voltage supply at the receiver

• The receiver is designed to function at 120VDC. Voltage on the (+) and (-) terminals on the control should be within this range.

3. Reprogram the remote control

If the system is non-functional try to reprogram the remote control. The program may not have taken during the programming process or the program button may have been pressed. If the program button is pressed the memory of the remote controls programed to the receiver are erased.

4. Listen and look for functionality on the receiver.

The LED that is used for programming the system will illuminate when the receiver is activated. You will also hear a "click" when the internal relays engage. If you can see the LED illuminate and you hear the relay "click" the issue is most likely in the wiring or device being controlled.