



Included in this Kit:

- (1) LRF240VPR1L Receiver**
- (1) 2-Button Transmitter** *Image shown with standard transmitter*
- (1) Long Range Antenna**

Available accessories:

- **Additional Transmitter KF340-2**
- **Waterproof Transmitter KF340-2WP**
- **Rechargeable Battery Transmitter GKF-WPTX-2**
- **Wall Mount Power Supply EPS120050**
- **6-Pack of Replacement A-23 12V Batteries A23-6**

The LRF240VPR1L is an RF receiver operating at a fixed frequency of 340 MHz. The receiver operates from 240VAC single-phase input power and provides a polarity reversing output for use with four/six wire lead AC motors rated at 1.5-Horsepower. Up to thirty transmitters can be programmed and used to activate the receiver's relay. The receiver has terminal blocks for connecting the input power and output relay contacts to the motor.

Each transmitter has a unique address that is transmitted when a button is pressed. A "program" button is provided on the receiver to program the transmitter(s) address into the receiver's memory. An LED on the receiver indicates the receiver's programming status and illuminates when the receiver is energized. The receiver is encased in a waterproof enclosure. The operating range is at least 100 feet.

Operating temperature range: - 0° F to 160° F.

Polarity reversing output: The transmitter has two buttons assigned to the motor output. The up (^) button runs the motor in one direction and down (v) button runs the motor in the opposite direction.

Maximum ratings: Power for the receiver can be in the range of 200 to 260 VAC. The relay contacts are rated at 20 Amps.

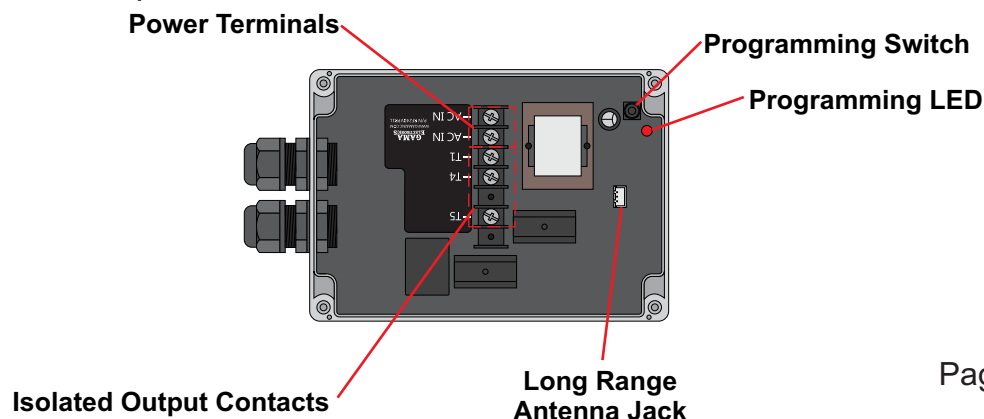
Dimensions: Receiver dimensions are approximately 5.75" L x 4" W x 2.5" H.

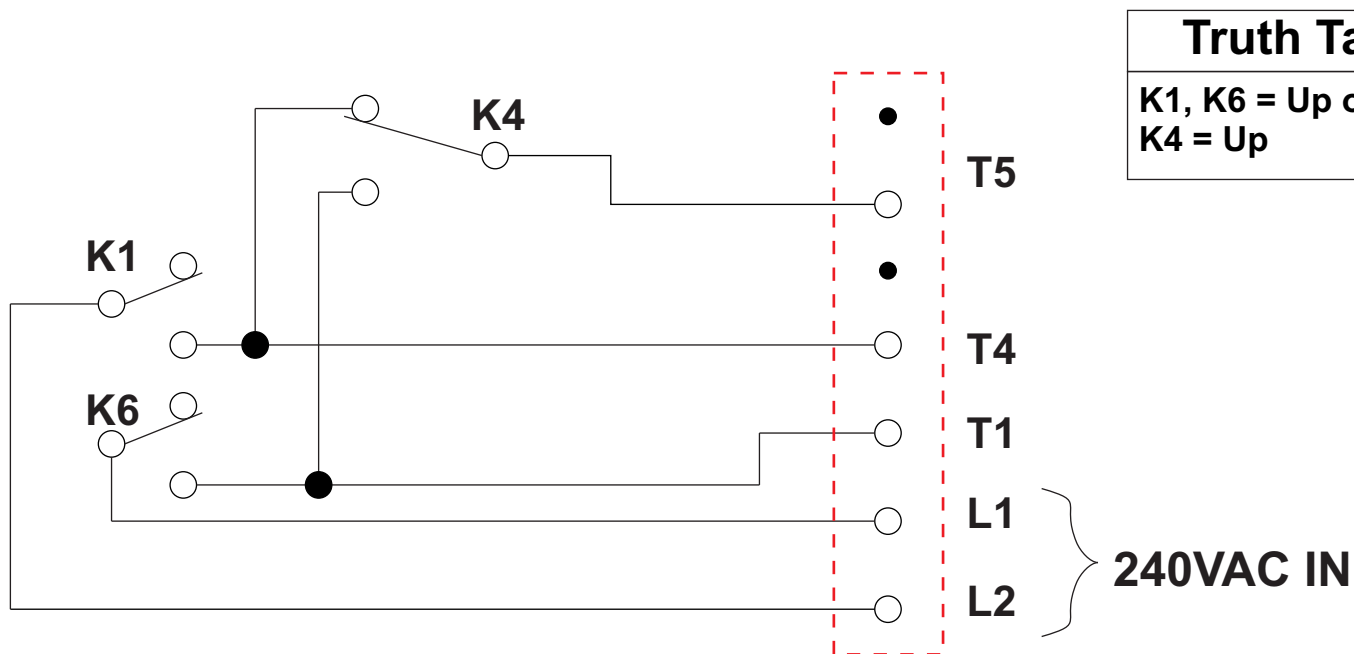
For wiring detail, see schematic on page 3.

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 30 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. To configure the receiver for latching output, go to Step 4.
3. To configure the receiver for momentary output, press and release the UP button on the transmitter and verify that the red program LED extinguishes and then illuminates (blinks once). Proceed to Step 5.
4. To configure the receiver for latching output, press and release the DOWN button on the transmitter and verify that the red program LED extinguishes and illuminates (blinks once).
5. Repeat the previous step for additional transmitters that will operate with this particular receiver. The red LED on the receiver will extinguish and illuminate (blink once) for the first transmitter being programmed, twice for the second, three times for the third, etc. The receiver will not respond to transmitters that have already been programmed. The first transmitter that is programmed determines the receiver's relay operating mode.
6. The receiver will return to normal mode if no transmitter buttons 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.





Truth Table

K1, K6 = Up or Down
K4 = Up

Relays shown in off position

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 200-260VAC. 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 programmed 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.