**LIST OF AVAILABLE MODELS AND COMPONENTS**

**Model** | **Description** | **Specifications**
---|---|---
RC613 | Single Channel Receiver | 15 Amp Resistive, 10 Amp (1200 Watt) Tungsten, 1 HP Motor Load - 120 Volt
RC613L | Single Channel Receiver with .36 in. Lead | 15 Amp Resistive, 10 Amp (1200 Watt) Tungsten, 1 HP, -120 Volt, Single Pole Single Throw Contacts.
RC613E | Heavy-Duty Receiver and Relay Assembly | 30 Amp Resistive - 120/240 Volt, 12.5 Amp (1500 Watt) Tungsten - 120 Volt, 1.5 HP - 120 Volt, 3 HP - 240 Volt Double Pole Single Throw Contacts.
RC615 | Single Channel Receiver | 15 Amp Resistive, 10 Amp (1200 Watt) Tungsten, 1 HP Motor Load - 120 Volt
RC939 | 3 Channel Transmitter | Operates on 9 Volt Battery
P1103ME | 24 hr. Timer Mechanism Only | 20A, Resistive, 120-240V, 10A, Tungsten, 120V, 1.5 HP, 3HP-240V, 50/60 Hz, DRY

**TROUBLESHOOTING**

**Symptom** | **Possible Cause(s)** | **Corrective Action**
---|---|---
No response to transmitter signal at anytime | No power | Turn ON power at main panel
Low battery/low battery on receiver and/or load | Check connections
Transmitter battery dead | Replace battery
Receiver and transmitters are on different codes | Change code settings (see page 3)
Faulty transmitter | Check battery connections, replace transmitter
Faulty receiver | Replace Receiver Module

**Symptom** | **Possible Cause(s)** | **Corrective Action**
---|---|---
No response to transmitter signal some of the time | Weak Battery | Replace battery
Appliance with brush type motor is in use | Relocate appliance and/or connect to another circuit
Other radio transmitter (police, etc) is operating nearby | Change master code of transmitter (See page 3)
Receiver is at edge of range | Mount Receiver closer or higher
Insufficient Range | Weak battery | Replace battery
Antenna too close to ground | Relocate Receiver Module
Transmitter is held too close to ground | Hold transmitter at least 3 ft. above ground
Weak signal due to obstruction | Remote/relocate Receiver Module
Nuisance operation | Other radio transmitter (police, etc) is operating nearby | Change master code of transmitter (See page 3)
Fluctuating supply voltage due to surge, etc. | If frequent - install surge suppressor
Faulty receiver | Replace receiver module

**LED CONTROL PERFORMANCE GUARANTEED**

If within the warranty period specified, this product fails due to a defect in material or workmanship, Inertmatic Incorporated will repair or replace it, at its sole option, the unit free of charge. This warranty applies only to the original purchaser and is not transferable. This warranty does not apply to (a) damage caused by accident, abuse, mishandling, acts of God, or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart, or otherwise modified; (c) units not used in accordance with instructions; (d) units failing the cost of the product. Some states do not allow a limitation of damages, so the foregoing limitation may not apply to you. This warranty is subject to the following conditions:

- This product is specifically designed for indoor or outdoor use, and can handle a variety of switching applications, typical around the house or farm. The push of a button on the face of the transmitter, the user is able to turn ON/OFF the connected load (lights, pump, etc.) from any remote location or, safely and conveniently. In addition, a single transmitter can operate up to four Receivers and is able to “teach” each Module a different code. (Transmitters are sold separately).

**LIMITED ONE YEAR WARRANTY**

If within the warranty period specified, this product fails due to a defect in material or workmanship, Inertmatic Incorporated will repair or replace it, at its sole option, the unit free of charge. This warranty applies only to the original purchaser and is not transferable. This warranty does not apply to (a) damage caused by accident, abuse, mishandling, acts of God, or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart, or otherwise modified; (c) units not used in accordance with instructions; (d) units failing the cost of the product. Some states do not allow a limitation of damages, so the foregoing limitation may not apply to you. This warranty is subject to the following conditions:

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**Inertmatic Incorporated**, SPRING GROVE, IL 60081-9689
http://www.intermatic.com

**INSTALLATION & OPERATION MANUAL**

**SINGLE CHANNEL RADIO RECEIVERS**

**Model:** RC613, RC613L Switching Module / Model: RC615 Timer Override Module

For indoor and outdoor use, suitable for Pool/Spa equipment control

**ELECTRICAL RATING:** 15 Amp Resistive, 1200 Watt Tungsten, 1 HP Motor Load - 120 Volt.

**IMPORTANT SAFETY INSTRUCTIONS**

1. This Control must be installed by a qualified electrician, according to National and Local Electrical Codes.
2. USE COPPER CONDUCTORS ONLY. If applicable, install this Control not less than 5 feet (3 meters for Canadian installations) of inside edge of pool or spa.
3. Do not exceed the maximum ratings of individual components, wiring devices, and current carrying capacity of conductors.
4. For grounding of the installation, refer to section 250 and 680 of the National Electrical Code.
5. This Control should not operate any equipment which would cause bodily injury or property damage should it be activated unexpectedly.
6. Always disconnect electricity at main panel before servicing this Control or the equipment(s) connected to it. THIS CONTROL IS NOT TO BE USED AS A POWER DISCONNECT.

**READ, FOLLOW AND SAVE THIS INSTRUCTION MANUAL**

**GENERAL INFORMATION**

These Modular Radio Receivers are one half of a two part remote control system. They operate as ordinary ON/OFF switches but they also respond to the signals of a hand held transmitter - the other half of the system. The modules are designed for indoor or outdoor use, and can handle a variety of switching applications, typical around the house or farm. The push of a button on the face of the transmitter, the user is able to turn ON/OFF the connected load (lights, pump, etc.) from any remote location or, safely and conveniently. In addition, a single transmitter can operate up to four Receivers and is able to “teach” each Module a different code. (Transmitters are sold separately).

**Model RC613 Receiver Module** comes with its own manual ON/OFF button and it is intended to be installed at the location of the load. The connected load may be turned ON/OFF using the hand-held transmitter or turned ON/OFF by pushing the red button on the face of the Receiver.

**Model RC613L Receiver Module** is the same as RC613 except that it comes with extra long (36 in.) leads.

**Model RC615 Receiver Module** is the same as the RC613L Module above, except it has no manual ON/OFF button on its face. This Module is designed to be connected to a timer and will override its pre-set program, without affecting the next automatic operation. At-site control of the load is possible by the ON/OFF switch of the timer.

* The open field range is 200 feet but depends on many factors like the age of the battery, proximity of large metal objects, the location of the receiver and environmental conditions at the time of transmission.
USEFUL INFORMATION

1. Radio Receivers are sensitive to heat. Avoid mounting them above heater, air conditioner or exposed to afternoon sun.
2. The higher the Receiver Module, the longer its range. For good range and reliable reception, install modules as high as practical above ground level with antenna at top.
3. Large metal objects divert radio signals. Avoid mounting Receiver Modules on metal wall, fence or near large metal objects.
4. Environmental conditions could affect the operation of the remote control system. For example, in rain the range may be less than normal.
5. Certain electric equipment like brush type motors or electronic gas heater igniters emit radio signals and can effect the function of the Receiver Module. Avoid mounting modules near such equipment.
6. To prevent electronic interference, install Receiver Modules at least 3 feet apart.

A. ON/OFF Switching Application
- use Model RC613 or RC613L.

Make sure the intended load is within the capacity of the Module, see ratings on page 1 and other choices on page 4.
1. Attach Receiver Module to the top of an outdoor grade junction box. Make sure the assembly is raintight.
2. Select the proper location (see Useful Information above) and install Receiver assembly on a vertical surface or other support, using hardware, suitable for the purpose.
3. Prepare the necessary conduit runs as required by the installation layout and pull-in the specified conductors.
4. Follow wiring diagram A on the right, make wire connections as shown.
5. Turn ON power and test installation, using the ON/OFF button on face of the Receiver Module. Replace junction box cover, make sure the installation is secure and raintight.
6. Set code, see Operating Instructions on page 3.

OPERATION

DANGER! To Reduce the Risk of Injury:
... do not permit children to operate the Control Unit or use the Pool/Spa unless they are closely supervised at all times.
... test GROUND FAULT protection regularly. If it fails to reset, DO NOT USE THE POOL or SPA! Contact a qualified service technician.

A. To Set Code

Receiver Modules have the capacity to “learn” and remember a unique code, generated by a transmitter. The transmitter will operate only the designated one or more receivers simultaneously. In addition, each transmitter can “teach” and operate up to three different sets of Receivers. Also, more than one transmitter can be assigned to operate the same Receivers.

1. Turn ON the main power and manually operate the load a few times, then turn load OFF.
2. Holding the Transmitter close to the Receiver Module, press and hold the push button you choose to operate that particular Module. The red LED indicator should now be lit.
3. Press the “CODE SET” button on the face of the Receiver Module until the green light next to the button flashes ONCE (about one second).
4. Code setting is now complete. Release the transmitter button and test installation by repeatedly pressing the chosen transmitter button. The load should cycle ON/OFF, if not, repeat steps 2 and 3 above.
5. If more than one Receiver Module is in use, repeat above procedure on the next Receiver Module and hold down the SAME transmitter button in step 2 if the Module is supposed to function TOGETHER with the first or a DIFFERENT button if it is supposed to operate INDEPENDENTLY.

To erase all memorized codes, press and hold CODE SET button on Receiver Module, until the green indicator light alongside goes out (in about 6 seconds).

To operate a Receiver Module with more than one transmitter, set master code switch, next to the battery in transmitters to the same setting.