Grifco Transmitter (GT4) and Relay Receiver Card (RRC / RRCE01) Manual
Rev: 706070

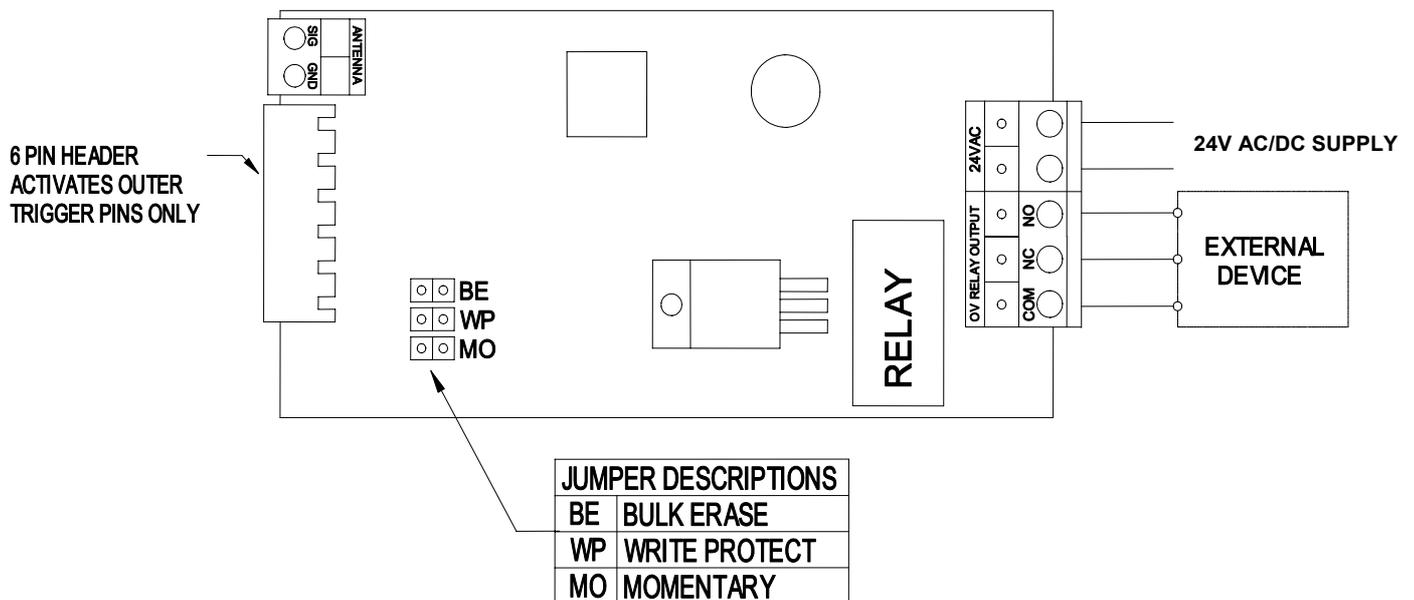**Features:**
4 channel transmitter
High security rolling code
Easy installation with virgin programming technology (Completely wireless programming)
Clone programming
On board relay with 5A 240VAC capacity
Dual output via 6 pin connector and relay

Transmitter (back and front) and the included program pin

Receiver (RRC / RRCE01)

JUMPER DESCRIPTIONS	
BE	BULK ERASE
WP	WRITE PROTECT
MO	MOMENTARY

INSTALLATION OF RRC (CARD ONLY)

This device would typically be used to either activate a door control system via the 6 pin header, or activate any device via the onboard relay and terminal block. The RRC must have a 24V AC or DC supply in order to operate. If used, the 6 pin header merely acts as a trigger connection to the main board it is plugged into. If using as a stand alone install, simply make all connections to the terminal block as shown above. Note: If using this device to trigger a door via the 6 pin header, the MO (Momentary) jumper must be fitted.

Enclosed Type (RRCE01)

This unit is simply an enclosed stand alone RRC that requires a 24VAC supply as marked on the terminal block within the enclosure. This device can be set to either momentary or "flip-flop" via the MO jumper (Fit for momentary operation).

OPERATION

Once the device has been powered up the RED indicator on top of the newly installed receiver card should light up and remain lit. This indicates there are currently no transmitters installed. *If the RED indicator does NOT remain lit you should perform a 'bulk erase' (see next page).*

Programming the first Transmitter (virgin receiver)

The Grifco Relay Receiver is fitted with virgin programming technology that allows programming of transmitters without the need to press any buttons on the receiver.

The Write Protect (WP) jumper must be removed in order to program or erase any transmitters. This protects against accidental programming when in virgin mode. ***Make sure only one virgin mode receiver is in range with its memory protect jumper off when programming.*** After programming the Write Protect jumper should be fitted for extra security. Note: Power must be off when changing jumper settings, then switched on to enable new function.

To Program Transmitter:
- Make sure you are in range of the Receiver card
- Hold the CHANNEL button you wish to program to the receiver for 2 seconds, whilst holding, press and hold the PROGRAM button on the back of the transmitter for a further 2 seconds. This will cause the light on the receiver card to go GREEN signifying new code verification
- Afterwards both the RED and GREEN indicators on the Receiver should now be OFF. This signifies that the RRC is now programmed with at least 1 Transmitter

The Transmitter should now control the device via the channel button you selected

Programming/Cloning successive Transmitters (non-virgin receiver)
- While in range of the Receiver, press the CHANNEL button on the transmitter (unlearnt) you wish to program *(hint: place the unlearnt transmitter on flat surface as you will need both hands for this operation)*. The red light on the receiver card will flash for 5 seconds.
- During the 5 seconds, and using the already learnt transmitter, press the PROGRAM button on the back and whilst holding that button, press the CHANNEL button that was previously learnt and hold for 2 seconds. This will cause the GREEN indicator on the receiver card to light signifying new code verification

The new Transmitter should now control the device via the channel button you selected. Repeat this process for subsequent transmitter learning. Note that any learnt transmitter can clone another.

Range
The GT4 operating range will depend largely on the surrounding environment in terms of the structure that surrounds the Receiver Card and also other radio frequencies used in the area. Before programming bulk quantities of transmitters, ensure that the performance is satisfactory. Although rare, some installations require the aerial wire to protrude out of the main control enclosure base through a small hole (approx. 2-3mm diameter). You can also extend the wire approximately 300mm to further boost signal strength.

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Erasing single Transmitter
- While in range of the RRC, Press and hold the PROGRAM button on the back of the transmitter you wish to erase, plus the CHANNEL button corresponding to the receiver you wish to erase from for 3 seconds until the RED indicator on the RRC is flashing. The RED indicator will flash for 5 seconds
- During the 5 seconds the RED indicator is flashing, press the PROGRAM button on the back of another learnt transmitter, plus the CHANNEL button on that transmitter corresponding to the RRC. If erase is successful the GREEN indicator will light up for 2 seconds

The transmitter should no longer control the device.

Important Note: Power must be off when changing jumper settings, then switched on to enable new function.

Bulk erasing of all Transmitters
Bulk erasing removes all transmitters from the RRC. To perform bulk erase:

- Turn off power to the device
- Fit the Bulk Erase (BE) jumper located on the RRC
- Resume power to the device. After a few seconds the RED indicator on the RRC will start flashing. This signifies all of the Transmitters have been erased.
- Turn off power to the device
- Remove the Bulk Erase (BE) jumper
- Resume power to the device. The RRC will power up and the RED indicator will remain lit. This indicated that the RC currently has no transmitters installed (Virgin mode)

Write Protect (WP)
The Write Protect feature stops any programming or erasing of transmitters into the receiver. To activate or deactivate this feature:

- Turn off power to the device
- Either fit or remove the Write Protect (WP) jumper located on the RRC
- Resume power to the device.

Momentary Operation (MO)
The momentary (MO) jumper sets how the receiver will respond to a programmed transmitter. With the jumper off, the receivers output will stay on for as long as a signal is received. With the jumper on (flip flop), the receiver output state will change each time a signal is received. To alter this setting:

- Turn off power to the device
- Either fit or remove the momentary (MO) jumper located on the RRC
- Resume power to the device.

Operation

To operate the device, simply press the programmed CHANNEL button on the transmitter which corresponds to the receiver. The receiver will control the device when a signal from a programmed transmitter is received.

LIGHT CHART

RED Light	GREEN Light	RRC STATUS
ON	ON	Receiver has just been powered up
ON	OFF	In virgin mode. No transmitters currently programmed
OFF	ON	Transmitter has just been programmed or erased
OFF	OFF	Awaiting signal from transmitter. At least one transmitter is programmed
Flashing Slow		Receiver has detected a signal from a transmitter
Flashing fast		Receiver had detected a signal from a transmitter, but is in Write Protect mode
Strobe flashing		Receiver has finished bulk erase operation

The yellow LED shows the current RRC output status.

WARRANTY / GUARANTEE

Chamberlain Australia Pty Ltd herein referred to as "The Company"

(a) The Company shall guarantee the goods for a period of two years from the date of invoice against any defects in construction or operation arising solely from faulty design, materials or workmanship subject to the following clauses.

(b) The Company shall at its option, repair, modify or replace defective parts or units at its own expense and within a reasonable time but the Company shall not unless otherwise agreed in writing be liable for costs associated with removal, replacement, transport or travelling expenses incurred by the Purchaser in obtaining the goods and returning them to the Company.

(c) The Company does not guarantee the goods where:-

(I) the defect rises from materials supplied by the Purchaser or a design requested by the purchaser; or

(ii) the defect arises from ordinary wear and tear, neglect or misuse by the Purchaser, accident, lack of care, insufficient maintenance, incorrect installation or improper use of the goods; or

(iii) the defect arises from force majeure; or

(iv) the Purchaser has in any way modified or repaired the goods without the Company's prior written consent; or

(v) the Purchaser has not complied with any written or oral instructions concerning the operation and maintenance of the goods; or

(vi) the Purchaser is in default in the observance or performance of any other provisions of the contract; or

(vii) The Grifco electric motors are used in conjunction with controls other than those assembled and supplied by the Company.

(d) Where warranty is approved for goods in a used condition, such goods will be repaired or replaced and returned to the purchaser as the Company sees fit. Refunds or credits will only be considered for goods not used and in new, undamaged condition.

(e) The Company's liability under this guarantee will be strictly limited to repairing or replacing a defective product at the Company's premises, as it may elect.

(f) The provision of sub-clauses (a) and (b) are stipulated for the benefit of the Purchaser only and are not intended for the benefit of any third party.

(g) Save for sub-clauses (a) and (b) the Company does not give any warranty or guarantee or make representations whatever in respect of the goods or the fitness of the goods or any part thereof or any particular purposes (whether or not that purpose is known to the Company).

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