



ALARM LOCK
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Model: RR-RECEIVER
Patented under US Patents 6,811,440 and 6,811,441
Publishing Patent on 03/03/04 © Alarm Lock

RR-RECEIVER

Wireless General Purpose Remote Control Receiver

INSTALLATION AND PROGRAMMING INSTRUCTIONS

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WI2012A 02/16

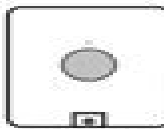
OVERVIEW

The **RR-RECEIVER** is a wireless general-purpose remote control receiver that provides remote unlocking to an Alarm Lock locking device, or for any other application requiring a radio-controlled solid state relay closure.

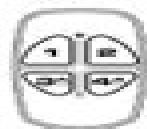
The **RR-RECEIVER** is factory supplied with Alarm Lock compatible battery connector plugs, simplifying installation within Alarm Lock cylindrical locking devices for wireless "remote release". The **RR-RECEIVER** can be used with a standard Alarm Lock battery pack or by simply cutting the power battery connector and using your own power supply (see **SPECIFICATIONS** for current consumption and power requirements).

RR-RECEIVER features include:

- Can be installed inside the lock housing to provide a "remote release" (remote unlock) function with legacy Alarm Lock locking devices (models DL2700, DL2800 or T3 non-Network models without an integral radio)
- Built-in battery connectors for quick installation inside Alarm Lock T2 or T3 locking devices
- Programmable "Relay Closure Duration", "Relay Hold Off Time" and "Relay Toggle Mode" for advanced applications
- Compatible with both the **RR-1BUTTON** wireless remote (see WI1999) and the **RR-4BKEYFOB** 4-button pocket-size remote (see WI2004). Use a **RR-4BKEYFOB** if you want a single "keyfob remote" to activate up to 4 separate **RR-RECEIVER**'s (for example, each button opens a separate door)
- Up to fifty (50) individual remote buttons can be "paired" (connected) to one **RR-RECEIVER**
- Can be used to drive high loads such as door strikes or magnetic locks by wiring to an auxiliary high current relay (see **Specifications** and **Wiring Diagram** for more information)
- Years of operation with a standard Alarm Lock battery pack (see **Specifications** below for current consumption and power requirements)
- Relay programming and remote button pairings are maintained even when power is removed
- For mortise locks, use the **RR-MORTISE** kit



RR-1BUTTON



RR-4BKEYFOB

Note: In this manual, "remote button" is used to describe the single button on the **RR-1BUTTON** (see WI1999) or any one of the four buttons on the **RR-4BKEYFOB** (see WI2004).

SPECIFICATIONS

Power Requirements: 5-12VDC or use AL battery pack
Solid State Relay Contact Current: 30mA maximum
Current Consumption: 50 microamperes (μ A) idle current

OPERATION

When a paired remote button is pressed, its paired **RR-RECEIVER** relay will typically close within 2 seconds of the but-

ton press, and will remain closed for its programmed "Relay Closure Duration" (2 seconds by default, programmable from 1-250 seconds).

After the "Relay Closure Duration" ends and the relay opens, an optional Relay "Hold Off" Time can be added during which time the **RR-RECEIVER** will ignore all paired remote button presses (Relay "Hold Off" Time is 0 seconds by default, programmable from 0-250 seconds). After the Relay "Hold Off" Time ends, the **RR-RECEIVER** is then ready to respond to the next wireless remote button press. This Relay "Hold Off" Time might be used for mechanical locking devices that require a minimum time to complete their operation, such as an entry gate swinging mechanism or mortise locks that require extra time to complete their mechanical operations (we recommend a minimum of 3 seconds "Hold Off" time be programmed when the **RR-RECEIVER** is used with Alarm Lock Exit Trim and Mortise locking devices). The columns in the table below (from left to right) summarize these **RR-RECEIVER** operations:

SUMMARY OF RR-RECEIVER RELAY OPERATIONS OVER TIME			
Remote Button Press	RR-RECEIVER "Relay Closure Duration"	RR-RECEIVER "Relay Hold Off Time"	RR-RECEIVER "Relay Hold Off Time Ends"
0.5-2 sec. delay before relay closes	Default is 2 seconds; programmable between 1-250 seconds	Relay opens and ignores all paired remote button presses. Default time is zero seconds; programmable between 0-250 seconds	The RR-RECEIVER is ready to respond to the next wireless remote button press

A separate programmable relay option is "Relay Toggle Mode" where each press of a paired remote button causes the relay to alternate back and forth between open and closed states like a toggle switch. See **RELAY TOGGLE MODE** for details. **Note:** If "Relay Toggle Mode" is programmed, we recommend powering the **RR-RECEIVER** with a DC power supply, as the voltage drain due to extended relay close durations will decrease battery life. See **SPECIFICATIONS**.

CAPACITY

Up to fifty (50) individual remote buttons can be "paired" to one **RR-RECEIVER**. However, a remote button can only be paired with one **RR-RECEIVER** at a time. If a paired remote button is later paired with a second **RR-RECEIVER**, the first pairing will be erased.

GETTING STARTED

First power the **RR-RECEIVER**, then perform the "Pairing Procedure" and "Relay Operational Programming".

- For installations inside Alarm Lock housings: Jump to the section **INSTALLATION INSIDE AN ALARM LOCK DEVICE HOUSING**. You can perform the "Pairing Procedure" and "Relay Operational Programming" with the **RR-**

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