SR-418

Short Range Remote Control

User Manual

Genave / NRC, Inc.

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> ⚠️ **<u>Warning</u>** ⚠️
>
> **If incorrectly used, this equipment can cause severe injury. Those who use and maintain the equipment should be trained in its proper use, warned of its dangers, and should read the manuals before attempting to set up, operate, adjust or service the equipment. Keep this manual for future reference.**

Important Safety Information

<u>Installation & Service Precautions</u>

⚠️**• Electrocution, severe personal injury and damage to equipment can occur during installation or servicing this equipment. All electrical work should be performed by, or under the supervision of an experienced electrician and in accordance with all applicable electrical, fire, building and safety codes.**

•**You must test the system and equipment to insure it is operating correctly after the installation, as well as after any work has been performed.**

<u>System Operation</u>

•**Training is necessary to ensure those responsible can correctly use the system. Periodic tests can serve to accomplish the training for the operators, in addition to verifying system readiness.**

•**You must carefully read and completely understand all the information about the system including its abilities and its limitations. Since no control system is infallible, you must have contingency plans for control, in the event the primary systems do not perform as expected, for any reason.**

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SR-418™ Hardware

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Short Distance Remote Control

Table of Contents

Product Overview

Basics

The SR-418 Control consists of a Transmitter unit and a Receiver unit which communicate on a frequency of 418MHz and have a range of up to 800 feet. When a button is pressed on the transmitter, a signal is sent to the receiver which then activates the corresponding output associated with the button. (ex. Button #2 is pressed on the transmitter, Output #2 activates on the receiver unit)

FCC Requirements

The transmitter has been pre-certified for FCC Part 15 and Industry Canada license-exempt RSS standards for an intentional radiator. It has already been labeled in accordance with FCC, Industry Canada and CE regulations. Note: The transmitter is not authorized for use in EUROPE. Please contact Genave for use outside North America.

INSTRUCTIONS TO THE USER

This device complies with Part 15 of the FCC Rules and Industry Canada license- exempt RSS standard(s). Operation of this device is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio / TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
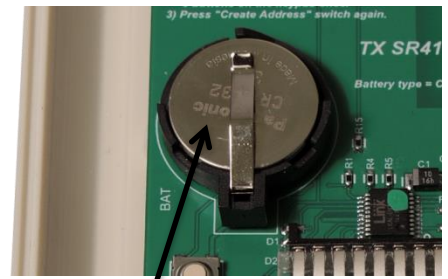

Keypad Transmitter

The SR-418 receiver can be matched with a single or multiple Keypad transmitters.

Battery replacement for Keypad Transmitter

The transmitter utilizes a standard CR2032 lithium button cell. In normal use, it provides **1 to 2 years** of operation. To replace the battery, **remove rear** of the enclosure. Once the unit is open, remove the battery by sliding the battery out of its holder.
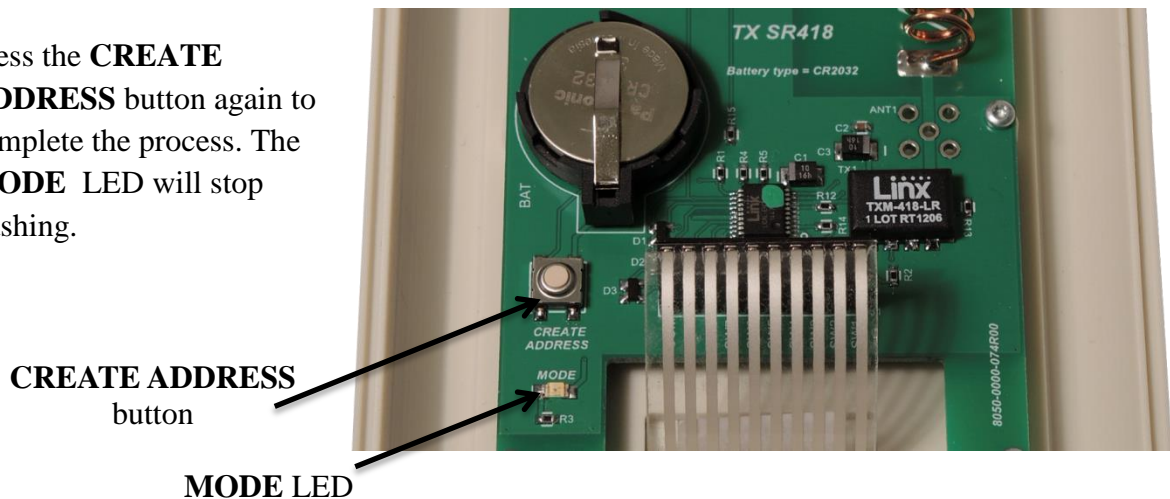
CR2032 Battery

4 Screws

Setting the Transmitter Address

The Long-Range Handheld Transmitter allows the selection of one of 16,777,216 unique addresses. All transmitters are shipped with a unique address to avoid contention with other units; however, the address can be changed.

1. To change the address: Press the **CREATE ADDRESS** button. While the **MODE** LED flashes, press each of the 8 buttons on the keypad once. Any buttons not pressed during this step will be ignored by the transmitter and have no function.

2. Press the **CREATE ADDRESS** button again to complete the process. The **MODE** LED will stop flashing.

CREATE ADDRESS button

MODE LED

The keypad now has a compltetly new address. Each SR-418 receiver will need to be paired with this new address. The decoder needs to learn the address of the transmitter before it will accept its transmissions.
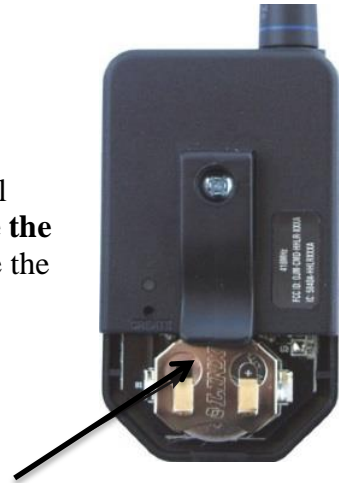
Please refer now to **"Pairing of TX to RX"**

Handheld Transmitters

The SR-418 receiver can be matched with a single or multiple handheld transmitters. The transmitters can have 1, 2, 3, 4, 5 or 8 buttons and be of a short range keyfob style or long range handheld style.

Battery replacement for 8 button transmitter

The transmitter utilizes a standard CR2032 lithium button cell. In normal use, it provides **1 to 2 years** of operation. To replace the battery, **remove the access cover** by pressing firmly on the label area and sliding it off. Once the unit is open, remove the battery by sliding the battery out of its holder.

CR2032 Battery

Setting the Transmitter Address

The Long-Range Handheld Transmitter allows the selection of one of 16,777,216 unique addresses. All transmitters are shipped with a unique address to avoid contention with other units; however, the address can be changed.

To change the address: Use a paper clip to press the **CREATE** button through the hole in the back of the case. An LED will light up in the **MODE** window, indicating that the address is being created. The address is randomized for as long as the button is held down.

Release the button and the randomized address is saved and the LED begins flashing to indicate that Button Permissions may now be set.
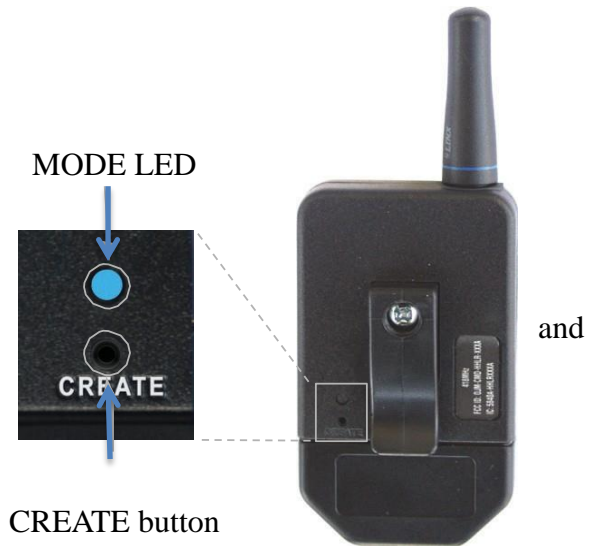
Press each of the buttons on the keypad that the transmitter is to send. Any buttons not pressed during this step will be ignored by the transmitter and have no function.

Press the **CREATE** button again or wait 17 seconds for it the MODE window to time out.

MODE LED

CREATE button

The address and Button Permissions are now set.

The decoder needs to learn the address of the transmitter before it will accept its transmissions.
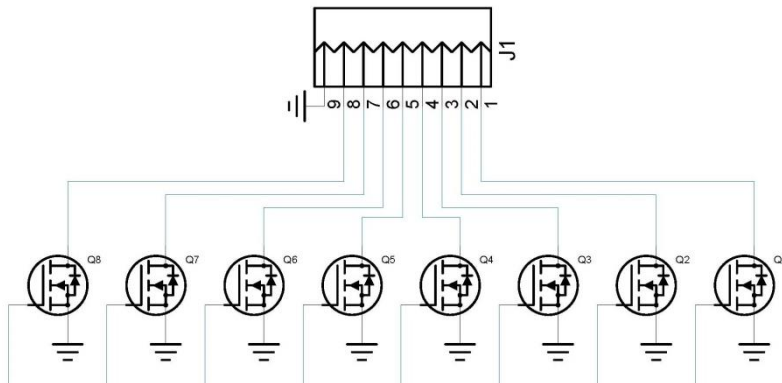
Please refer now to **"Pairing of TX to RX"**

Receiver

The SR-418 receiver has 8 outputs which activate whenever the corresponding button is being pressed on the transmitter.

The power requirements for the SR-418 receiver is 5 to 30VDC and 100mA maximum.

The SR-418 is capable of remembering 40 unique transmitter addresses. If a 41st transmitter is added, the first transmitter address is overwritten.

The outputs of the SR-418 are individual MOSFETS and each of the outputs can sink up to 200mA of current at a maximum voltage of 30Vdc.
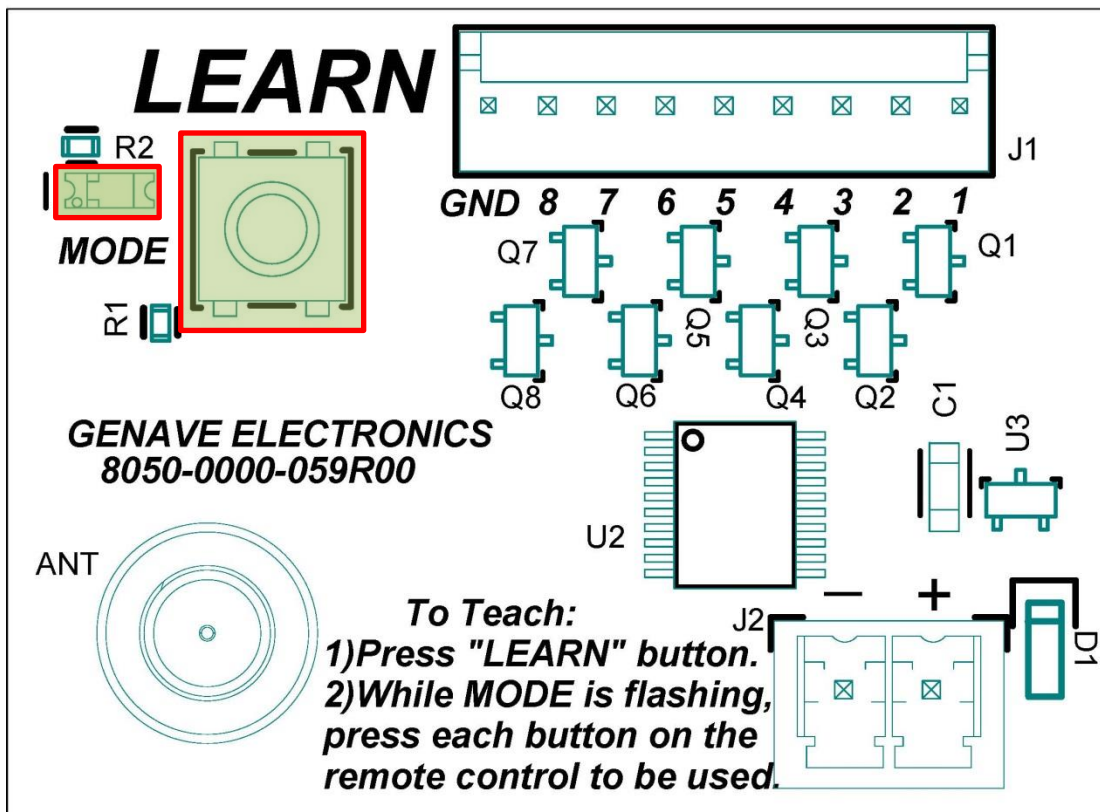
Pairing of Tx to Rx

To pair the receiver to a transmitter:

1. Press the "Learn" button on the receiver.
2. The "MODE" LED will start flashing.
3. While MODE flashes, press any button on the transmitter to send a signal.
4. Press LEARN again or wait 17 seconds. MODE will stop flashing.

The units are now paired and operational.

Unpairing / Erasing Codes

To unpair or erase codes:

1. Press the "Learn" button for 10 seconds.
2. The mode LED will be on and steady while button is pressed.
3. The mode LED will go out and then flash once, indicating that ALL addresses have been erased and unit is no longer paired with any transmitter.