



# FM137

## 25 Code FM137 Digital Keypad



Instructions for Wired and Wireless  
Installations (FM137 only)

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# Wireless Gate Entry Intercom



Thank you for purchasing the FM137 Digital Keypad. Be sure to read the directions carefully and completely. Before permanently mounting the keypad, please program the keypad and test its range.

**IMPORTANT:** Your keypad may need to be hard wired due to the fact that it must accept interference according to FCC regulations listed below. For example, applications that are relatively close to cell towers or airports may receive intermittent interference and require hard-wiring.

The FM137 Digital Keypad is a multipurpose keypad that can work with other applications in addition to Nortek Security & Control (NSC) gate openers and locks. As a wireless keypad it can be used with any gate or garage door opener and must be used in conjunction with the NSC garage door receiver kit (part # RB709U-NB).

**SAFETY NOTE:** Never install the keypad where a person can reach through the gate to activate it, or where a person can touch the gate while activating the keypad. The recommended minimum distance between the gate and keypad is 10 ft.

## Keypad Features

### Keypad

- The keypad illuminates and beeps at the press of any key.
- When a valid code is entered, the STATUS light will blink rapidly.
- The keypad remains active for 40 seconds after entering a valid code: pressing any key on the keypad while the gate is in motion will stop the gate; pressing any key while the gate is stopped will cause the gate to reverse direction. After 40 seconds, the keypad will beep 3 three times and go into “idle” mode.
- If more than 20 key presses are entered without matching an Entry Code, the STATUS light will flahs rapidly, and error tone will sound for 1 second, and the keypad will go into “lock-down” mode for 40 seconds.
- If more than 10 seconds elapse between key presses, the keypad will beep 3 three times and go into “idle” mode.

### Master and Entry Codes

- Up to 25 Entry Codes may be programmed into the keypad.
- Temporary Entry Codes can be programmed to expire within one to seven (1–7) days.
- Entry Codes remain stored in memory even when the keypad batteries go dead.
- All Entry Codes are deleted by pressing the RESET button on the keypad; Master Code defaults to “1234.”

## FOR YOUR RECORDS

Please record the following information. Be sure to keep all receipts for proof of purchase. Refer to this information when calling NSC for service or assistance with your keypad.

DATE OF PURCHASE: \_\_\_\_\_

PLACE OF PURCHASE: \_\_\_\_\_

Factory Code

1

2

3

4

Your Master Code

Additional Codes (Up to 25): \_\_\_\_\_

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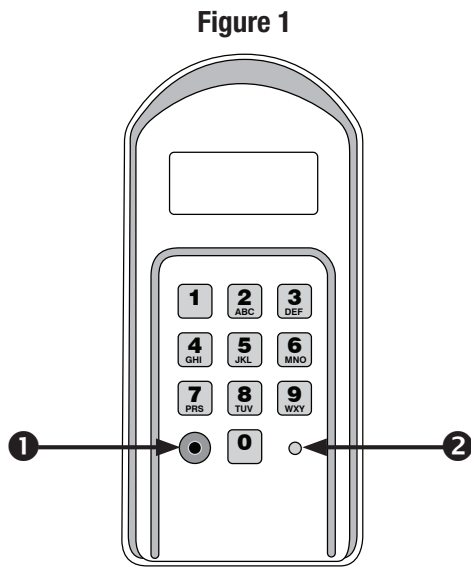
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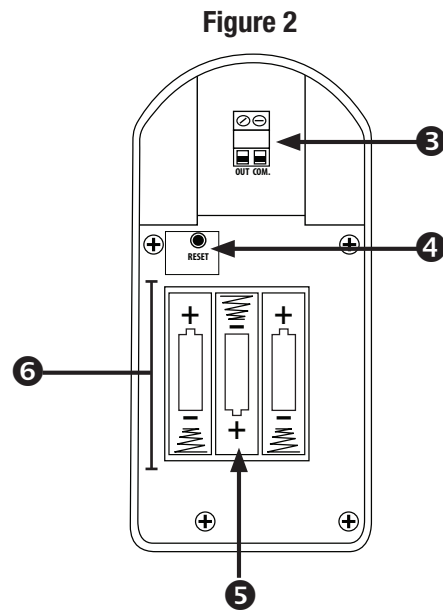
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# Keypad Description

## Front



## Inside



1. **Program button:** Use for/during program process.
2. **Status Light:** The LED will blink once when any key is pressed and provides visual feedback during access code programming.
3. **Open Collector Output:** Used to connect Keypad to gate opener that accepts logic inputs (All NSC gate openers) in hard-wired applications.
4. **Reset button:** To reprogram keypad to factory settings, press and hold the RESET button. When holding the RESET button down, you will hear 1 initial beep, followed by a period of silence for ~5 seconds then 3 beeps in a row. Release the button after the 3 beeps at the end. All codes are deleted. Default master code is 1234.
5. **Battery Holder:** Use 4 AA batteries if hard-wired power supply is not used. If external power source is used the 4 AA batteries will provide a back-up power source.
6. **Installing Batteries**

**NOTE:** 3 AA batteries are required to power the keypad.

**Step 1:** Remove the two screws from the bottom of the keypad (**Figure 3**) and separate the keypad from its housing.

**Step 2:** Install four (3) AA batteries (not included). (**Figure 2**)

**NOTE:** Choose wireless or wired installation (not both) and proceed to appropriate section.

# Wireless Installation of the Keypad

**NOTE:** For wireless applications, the distance from the keypad to the opener's receiver should not exceed 50 ft. Always test the keypad range before permanently mounting it.

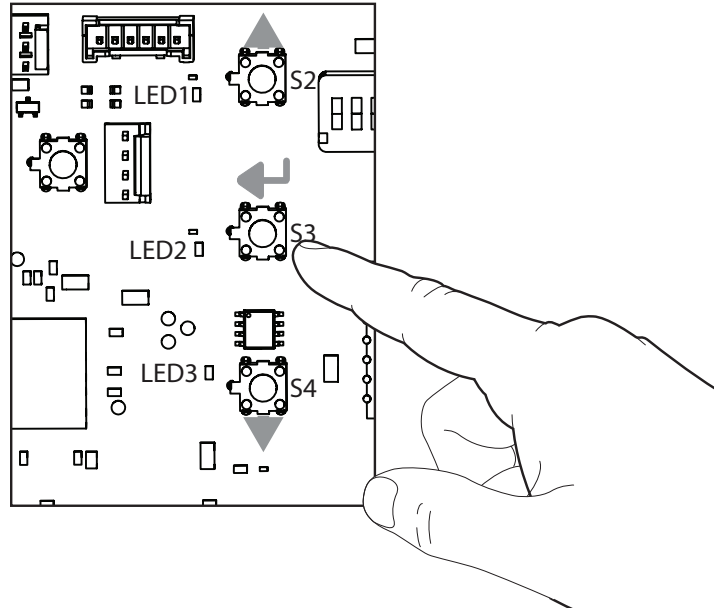
## Learning an FM137 to an MM371, MM372, MM571 or MM572

### Automatic Gate Opener

1. With the power on for your control box, press and hold the gate opener's middle orange (S3) button (←) located on the control board until you hear a beep, then release it.
2. Next, enter the master code or an entry code, but continue pressing the last digit until the control board beeps again. Any programmed code will work.
  - a. **Example:** Press 1, 2, 3, and then hold down 4 until the control board beeps.
3. Test the keypad code by pressing any single digit if the keypad has not yet timed out.

**NOTE:** If you hear three short beeps in succession, the programming mode has timed out and you will need to repeat steps 1 and 2.

To forget the FM137, simply follow steps 1 and 2 above then test the keypad to verify that it no longer activates the Operator.



## Learning an FM137 to an MM271 or MM272 Automatic Gate Opener (A dip-switch type transmitter may be required)

1. Use the On/Off switch on the control box to power the system down.
2. Enter the master code or an entry code but continue pressing the last digit. Any programmed code will work.
  - a. **Example:** Press 1, 2, 3, and then hold down 4.
3. While still holding the last digit of the code, power the system on with the on/off switch.
4. After the startup beep, there will be a long silence for about 10 seconds, followed by a continuous beep. Keep holding the last digit of the code on the keypad.
5. Release the button on the keypad.
6. Test the keypad code by pressing any single digit if the keypad has not yet timed out.

To forget the FM137, simply follow steps 1 through 5 above then test the keypad to verify that it no longer activates the Operator.

**Note for MM271:** The gate must be in the closed position with the arm extended to delete a PIN code. The gate can be in any position to add a PIN code.

**If programming fails on an MM271/MM272:** You must use a dip-switch type transmitter (FM134/FM135, MM3BT, RB741/RB742) to program the keypad. Simply match the dip-switch patterns between the transmitter and FM137 then learn the transmitter to the system. Contact Tech Support for a complimentary dip-switch type transmitter to program the FM137 if you do not have one.

# Wireless Installation of the Keypad

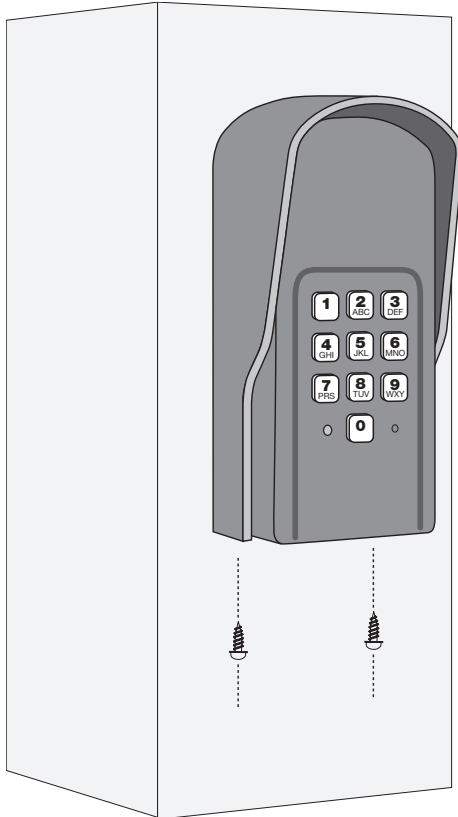
**NOTE:** For wireless applications, the distance from the keypad to the opener's receiver should not exceed 50 ft. Always test the keypad range before permanently mounting it.

**Step 1:** Mount the keypad cover using the screws provided.

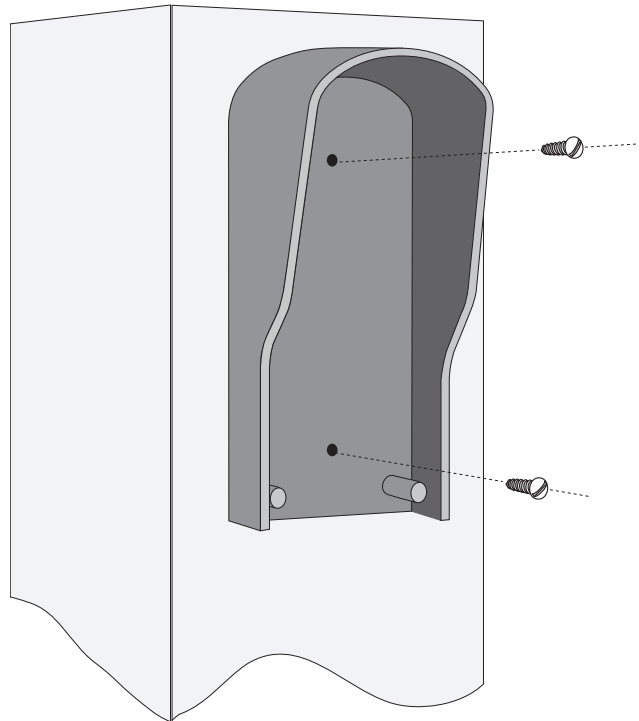
**Step 2:** Slide the keypad into the cover and secure with the small screws provided.

**NOTE:** If you have not changed your opener's transmitter code from the factory setting, see the "Setting Your Personal Transmitter Code" section in the gate opener's manual then "Learn" the transmitter code into the keypad. See "Learn Transmitter Code" section below.

**Figure 3**



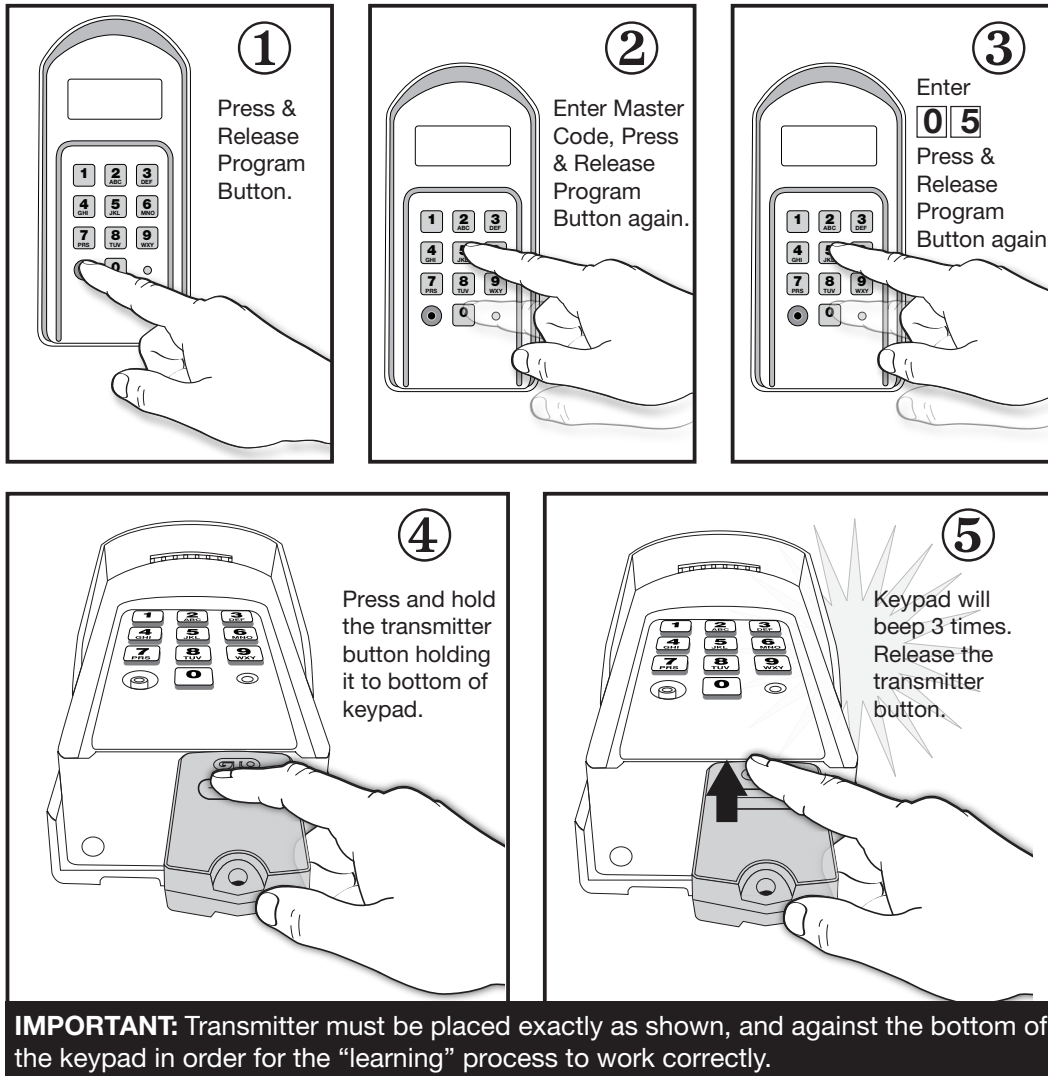
**Figure 4**



# “Learn” Transmitter Code (for wireless installations)

**IMPORTANT:** Make sure the transmitter operates the gate opener.

Turn off the gate opener so that there is no unintended operation of the gate during the learning process.



**Step 1:** Mount the keypad cover using the screws provided.

**Step 2:** Slide the keypad into the cover and secure with the small screws provided.

1. Press and release the **PROGRAM** button.
2. **Enter the Master Code** then press and release the **PROGRAM** button.
3. Enter **0,5** then press and release the **PROGRAM** button.
4. Press and hold the transmitter button while holding the transmitter to the bottom of the keypad as shown.
5. The keypad will beep 3 times to confirm that the transmitter is successfully “Learned.” Release the transmitter button at this time.

**EXAMPLE:** Learn transmitter code with Master Code of “1234”. Then press and hold transmitter button until you hear 3 beeps. The round black dot is the “PROGRAM” button. Go to “Programming the keypad” to change the master code (if desired).

●1234●05●

Turn the gate opener back on and confirm that the keypad operates the gate using the master code.



# Wired Installation of the Keypad

**IMPORTANT:** Remove the batteries from the keypad. The keypad will not work properly if batteries are not first removed.

**Step 1:** Turn the gate opener's power switch OFF. Run wire through PVC pipe between the opener control board to protect the wire.

Remove the small rectangular knock-out on the back of the keypad cover and pull the wire into the cover. Then mount the cover to the post using the screws provided. (**Figure 6**)

**Step 2:** Strip the wires back 3/16" and attach the wires to the terminal block marked OUT COM on the keypad control board as shown in (**Figure 7**) making sure to keep track of polarity. Connect the other end to the opener's control board as shown in Control Board Connections section below.

**NOTE:** For a hard-wired application the 318 MHz RF transmitter is automatically disabled.

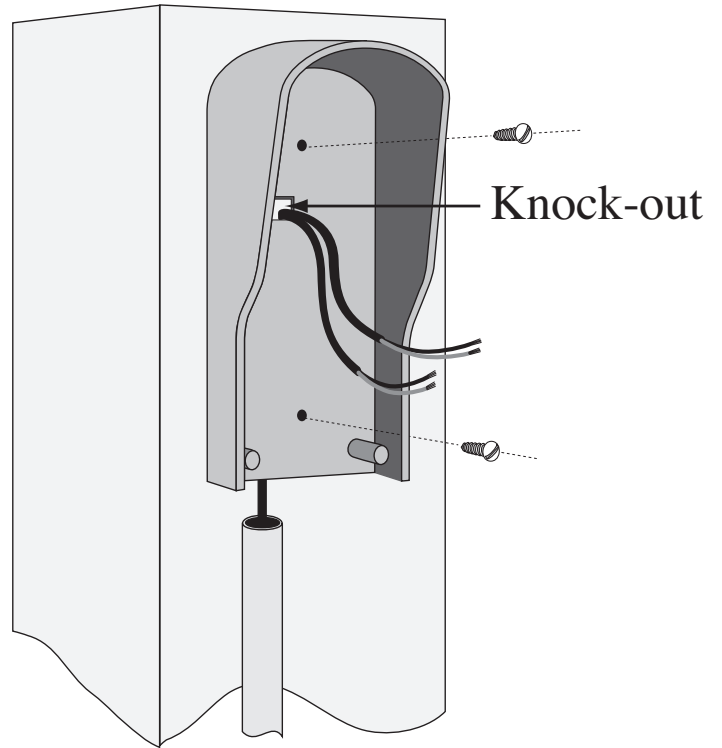


Figure 6

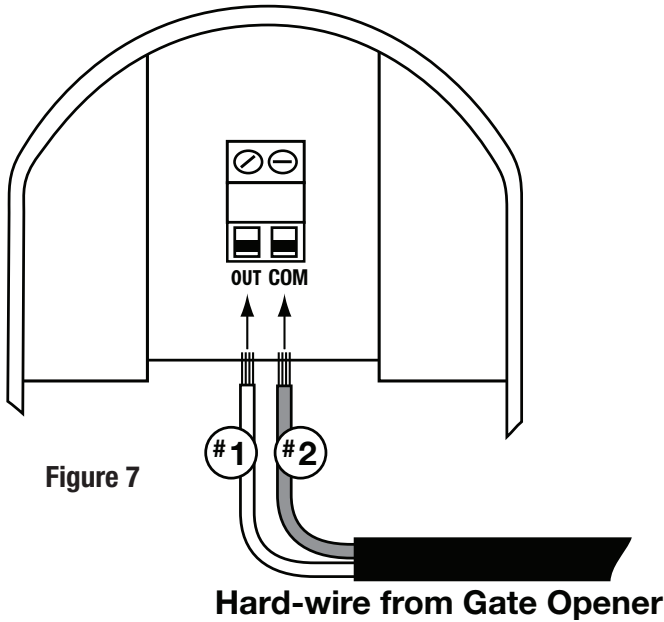


Figure 7

Hard-wire from Gate Opener

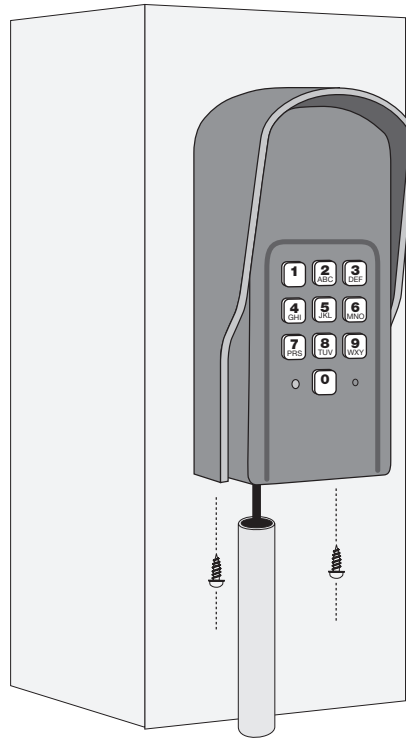
**Step 3:** With the power to the opener turned OFF. Remove opener control board cover and feed enough of the low voltage keypad wire through a strain relief to reach the gate opener control board terminals.

**Step 4:** Attach the wires from the keypad to the opener control board terminal blocks as shown below. **(Figure 9)**

**Step 5:** Replace the control board cover and turn the power switch ON. Put the batteries back into the keypad. **(Figure 2)** Test the keypad by entering **1 2 3 4** to open gate.

**Step 6:** Program new “Personal Master Code” and any additional entry codes (for a total of 25 entry codes) (if desired). See Program the Keypad on page 5.

**Step 7:** Slide the keypad into the cover and secure with the small screws provided. **(Figure 8)**



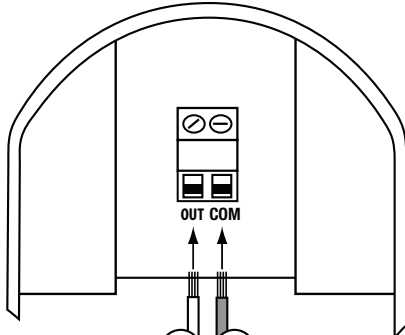
**Figure 8**

# Control Board Connection Examples

**NOTE:** If your control board doesn't look like any of these diagrams, please refer to the opener's instruction manual to locate the control board input. Generally, the OUT wire should connect to the CYCLE terminal on the control board while COM connects to the COMMON terminal.

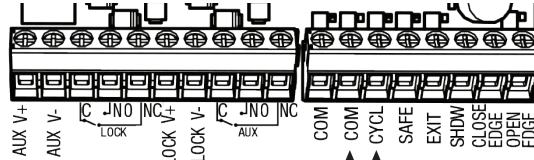
Figure 9

## Keypad Terminal Wiring for Reference



Hard-wire from Gate Opener

## Mighty Mule MM371, MM372, MM571 and MM572 Control Boards

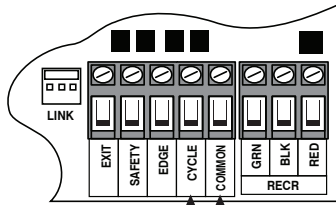


Connect #2 wire from the **RELAY OUTPUT** terminals on the keypad to the **COM** terminal on the gate opener control board.

Connect #1 wire from the **RELAY OUTPUT** terminals on the keypad to the **CYCLE** terminal on the gate opener control board.

#2 #1

## Mighty Mule 360 Control Board

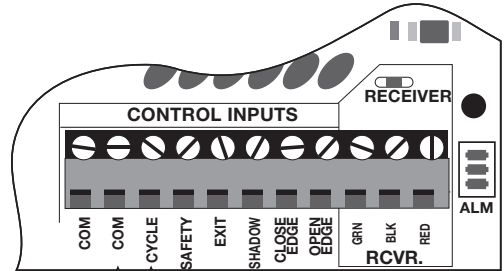


Connect #1 wire from the **RELAY OUTPUT** terminals on the keypad to **CYCLE** terminal on the gate opener control board.

Connect #2 wire from the **RELAY OUTPUT** terminals on the keypad to the **COMMON** terminal on the gate opener control board.

#2 #1

## MM560, MM562, MM660, PRO3000XLS Series and PRO4000XLS Series Control Boards

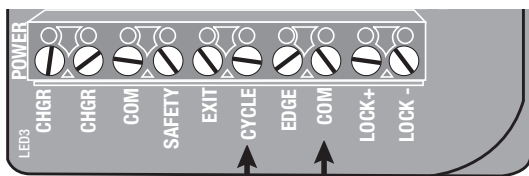


Connect #2 wire from the **RELAY OUTPUT** terminals on the keypad to the **COM** terminal on the gate opener control board.

Connect #1 wire from the **RELAY OUTPUT** terminals on the keypad to **CYCLE** terminal on the gate opener control board.

#2 #1

## MM271 Control Boards

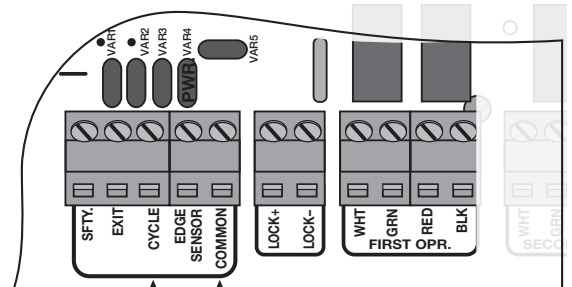


Connect #1 wire from the **RELAY OUTPUT** terminals on the keypad to the **CYCLE** terminal on the gate opener control board.

Connect #2 wire from the keypad to the **COM** terminal on the gate opener control board.

#2 #1

## MM262, MM362, MM462, FM202 PRO-SW2000XLS Series Control Boards



Connect #1 wire from the **RELAY OUTPUT** terminals on the keypad to **CYCLE** terminal on the gate opener control board.

Connect #2 wire from the keypad to the **COMMON** terminal on the gate opener control board.

#1 #2



# Normal Keypad Operation



- If the user enters a 4-digit code that is matched to one of the 25 stored codes. The STATUS light should blink rapidly indicating that it is sending command to operator.
- No more than 20 key presses are allowed to obtain the 4-digit entry code.

## Example:

1234 is one of the codes stored in one of the memory location.

The user can enter “x1234” or “xxxxxxxxxxxxxxxx1234” and the gate should be activated (x is any key). If more than 20 key presses is entered without matching one of the codes then the unit’s STATUS light should be flashing rapidly and no entry will be accepted for the next 40 seconds. The user must not enter any code for at least 40 seconds before the unit returns to normal operation; otherwise it remains in this “lock-down” mode. Once the user enters a matched code, any subsequent key press within the next 40 seconds will cause the keypad to send command to gate opener.

## Keying Indication Summary:

	 Keying Error Alert Indication	 Keying accepted confirmation Indication
<b>Master Code Setting</b>	Speaker: continuous Beep for 2 seconds STATUS light: rapid flashing	Speaker: Beep – Beep – Beep STATUS light: no light, no flashing
<b>Permanent Entry Code</b>	Speaker: continuous Beep for 2 seconds STATUS light: rapid flashing	Speaker: Beep – Beep – Beep STATUS light: no light, no flashing
<b>Temporary Entry Code Setting</b>	Speaker: continuous Beep for 2 seconds STATUS light: rapid flashing	Speaker: Beep – Beep – Beep STATUS light: no light, no flashing
<b>Entry Code Matching</b>	Speaker: continuous Beep for 2 seconds STATUS light: rapid flashing	Speaker: Beep – Beep – Beep (after non-matching 20 keying) STATUS light: no light, no flashing





## FCC Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** 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 particular installations. If this equipment does cause harmful in-terference 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 replace the receiver antenna.
- Increase the separation between the equipment and the 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.

## Limited One Year Warranty

Nortek Security & Control, LLC (NSC) gate opener accessories are warranted by the manufacturer against defects in workmanship for a period of one (1) year from the date of purchase, provided recommended installation procedures have been followed.

In the case of product failure due to defective material or manufacturer workmanship within the one (1) year warranty period, the accessory will be repaired or replaced (at the manufacturer's option) at no charge to the customer, if returned freight prepaid to NSC, 5919 Sea Otter Place, Suite 100, Carlsbad, CA 92010. **IMPORTANT:** Call 850/575-4144 or fax 850/575-8950 for a Return Goods Authorization (RGA) number before returning goods to factory. Products received at the factory without an RGA will not be accepted. Replacement or repaired parts are covered by this warranty for the remainder of the one (1) year warranty period or six (6) months, whichever is greater. NSC will pay the shipping charges for return to the owner of items repaired.

The manufacturer will not be responsible for any charges or damages incurred in the removal of the defective parts for repair, or for the reinstallation of those parts after repair. This warranty shall be considered void if damage to the product(s) was due to improper installation or use, connection to an improper power source, tampering, or if damage was caused by electrical power surge or lightning, wind, fire, flood, insects, or other natural agent.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. This warranty is in lieu of all other warranties, expressed or implied. **NOTE:** Verification of the warranty period requires copies of receipts or other proof of purchase. Please retain these for your records.



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