



# **DOL1000-MF2 (2 Relay) Programming & Installation Manual**



## INTRODUCTION

The DOL1000-MF2 is a versatile keypad that has the option of running wirelessly. The DOL1000-MF2 can work with 6 volts of battery power or 6-24 volts of AC/DC. This keypad can be wired with multiple wireless transmitters. DOL1000-MF2 can store up to 1000 access codes. Guest access codes are also programmable, which are single-use codes for access. After 5 successive incorrect codes, the keypad will lock for 4 minutes

## CONNECTION TERMINALS

- **V+/V-**: These terminals will supply power to the transmitter.
- **ANT**: Antenna
- **RF1-4**: The DOL1000-MF2 can control up to 4 different channels. Each RF terminal represents a different channel.
- **GO**: Connects to the green LED
- **NOGO**: Connects to the red LED
- **KEYPADUTE**: Connects to the DOL1000-MF2 lights located in front of the keypad
- **NO (Normally open)**: Use N.O. for equipment that requires a temporary surge of electricity to activate. Example, Electric door locks, automated gates, push plates, etc.
- **COM**: Common ground
- **NC (Normally closed)**: Use N.C. for equipment that requires a constant flow of electricity to function properly. Example, Magnetic locks, receivers, etc.
- **BATTERY 6VDC**: If deciding to power the DOL1000-MF2 with a battery, then connect the battery to these terminals.
- **6-24VAC/DC**: If deciding to hardwire the DOL1000-MF2 directly to a power source, use these terminals.
- **Master Reset Button**: Holding this button down for 5 seconds after reconnecting the keypad to its power source will make the keypad beep 3 times. This will indicate that the Master Code has been reset to 1234.

## RESETTING THE KEYPAD AND MASTER CODE

Located on the DOL1000-MF2's circuit board, the red Master Reset Button is used to reset the master code back to 1234. The following steps will reset the master code:

1. Remove the battery or eliminate the power source to the DOL1000-MF2 and wait for 30 seconds for the keypad to completely power off.
2. Press and hold the red Master Reset Button.
3. While holding the red Master Reset Button, reconnect the battery or power source to the DOL1000-MF2.
4. Continue to hold the red Master Reset Button until the keypad beeps 3 times. This will indicate that the Master Code has been reset to 1234.

The very first time that you apply power to the keypad, you will hear a series of beeps followed by a regular repeating beep (1 beep at 3 second intervals) that lets you know you are in programming mode:

Enter a 4 digit Master Code that only you will use for programming purposes.

Write Master Code here \_\_\_\_\_

You can now add up to 1000 access codes as well as a flash code (for one use only) and a latch code to hold open the gate.

<b>Example - Master Code 1234</b> beep - ◀					
	Master Code	Sub Mode	Access Code	Channel	Exit
To add Access Code <b>1934</b>	1 2 3 4	◀◀◀ 1 #	◀◀◀ 1 9 3 4	◀ 1	◀ # ◀◀◀◀◀◀
To add Access Codes <b>2413, 888 and 9743</b> <i>(you may add up to 1000 different codes)</i>	1 2 3 4	◀◀◀ 1 #	◀◀◀ 2 4 1 3 ◀◀◀ 8 8 8 8 ◀◀◀ 9 7 4 3	◀ 2 ◀ 3 ◀ 4	◀ # ◀◀◀◀◀◀ ◀ # ◀◀◀◀◀◀ ◀ # ◀◀◀◀◀◀
To remove Access Code <b>1934</b>	1 2 3 4	◀◀◀ 2 #	◀◀◀ 1 9 3 4		◀◀◀ # ◀◀◀◀◀◀◀◀◀
To add Flash Code <b>4437</b> <i>(for one use only)</i>	1 2 3 4	◀◀◀ 3 #	◀◀◀ 4 4 3 7	◀◀◀ 1	◀◀◀◀◀◀◀◀◀◀◀◀
To set relay output time <b>15 seconds</b> <i>(1/2 - 60 seconds)</i>	1 2 3 4	◀◀◀ 5 #	◀◀◀ 1 5 #		◀◀◀◀◀◀◀◀◀◀◀◀
To set relay output time <b>1/2 second</b>	1 2 3 4	◀◀◀ 5 #	◀◀◀ 0 #		◀◀◀◀◀◀◀◀◀◀◀◀
To change Master Code from <b>1234</b> to <b>4321</b>	1 2 3 4	◀◀◀ 7 #	◀◀◀ 4 3 2 1	◀◀◀ #	◀◀◀◀◀◀◀◀◀
To clear all Access, Flash and Latch codes	1 2 3 4	◀◀◀ 8 #		◀◀◀	◀◀◀◀◀◀◀◀◀◀◀◀

Access Code:

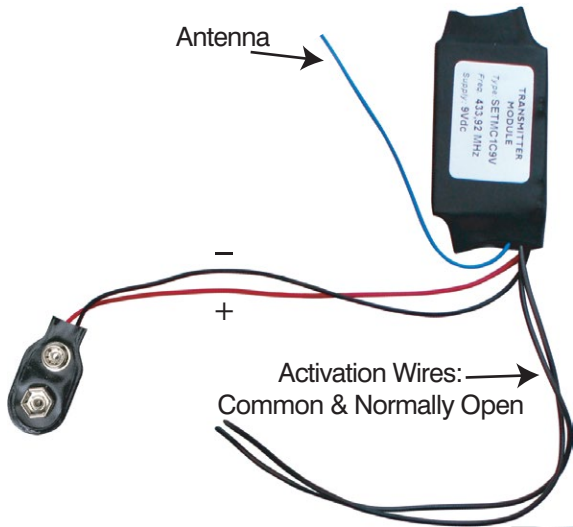
## PROGRAMMING THE DOL1000-MF2 with 433 MHz Module

Default Master Code: 1 2 3 4

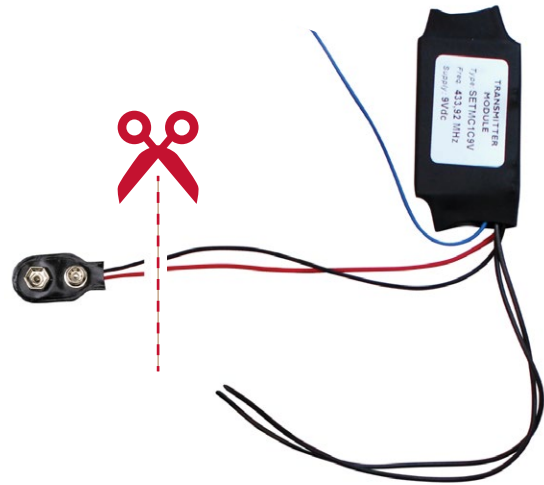
<b>Add Access Codes</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 1#, Access Code: _ _ _ _ , Channel:1 #</b> <b>Example:</b> STEP 1: Press <u>1</u> <u>2</u> <u>3</u> <u>4</u> STEP 2: Press <u>1</u> # STEP 3: Enter access code _ _ _ _ STEP 4: Press <u>1</u> # (multiple beeps confirm) STEP 5: Press * * STEP 6: Test new access code. _ _ _ _ (Green light will flash 6 times confirming that the new access code has been accepted.) STEP 7: Install 433 MHz wireless module (see next page) STEP 8: Proceed to program the keypad to the receiver.
	Use Channel 1 if unsure. The different channels are dependent on the RF terminal used. Any channel can be assigned for devices that connect to normally open/normally closed.
<b>Remove Access Codes</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 2#, Access Code: _ _ _ _ , #</b>
	Enter the Access Code you would like to delete.
<b>Add Guest Code</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 3#, Guest Code: _ _ _ _ , Channel:1</b>
	The Guest Code is a one-time use access code. Once used, the number will be cleared from memory.
<b>Add Access Toggle Code</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 4#, Toggle Code: _ _ _ _ , Channel:1</b>
	Entering Access Toggle Code will toggle the keypad to continuously activate. Entering the code again will toggle the keypad off. Dip switch #6 on the circuit board needs to be in the off position in order for this mode to work. <b><i>TOGGLE MODE ONLY FOR USE WHEN KEYPAD IS HARD WIRED.</i></b>
<b>Set Relay Output Time</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 5#, Seconds:0-60, #</b>
	Set the number of seconds the device will grant access before locking again.
<b>Change Master Code</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 7#, Master Code: _ _ _ _ , #</b>
	Changes Master Code. If the Master Code is forgotten, this manual contains instructions on how to reset the Master Code.
<b>Clear All Codes</b>	<b><u>1</u> <u>2</u> <u>3</u> <u>4</u>, 8#</b>
	This will clear all data except the Master Code.

# INSTALLING THE 433 MHz MODULE

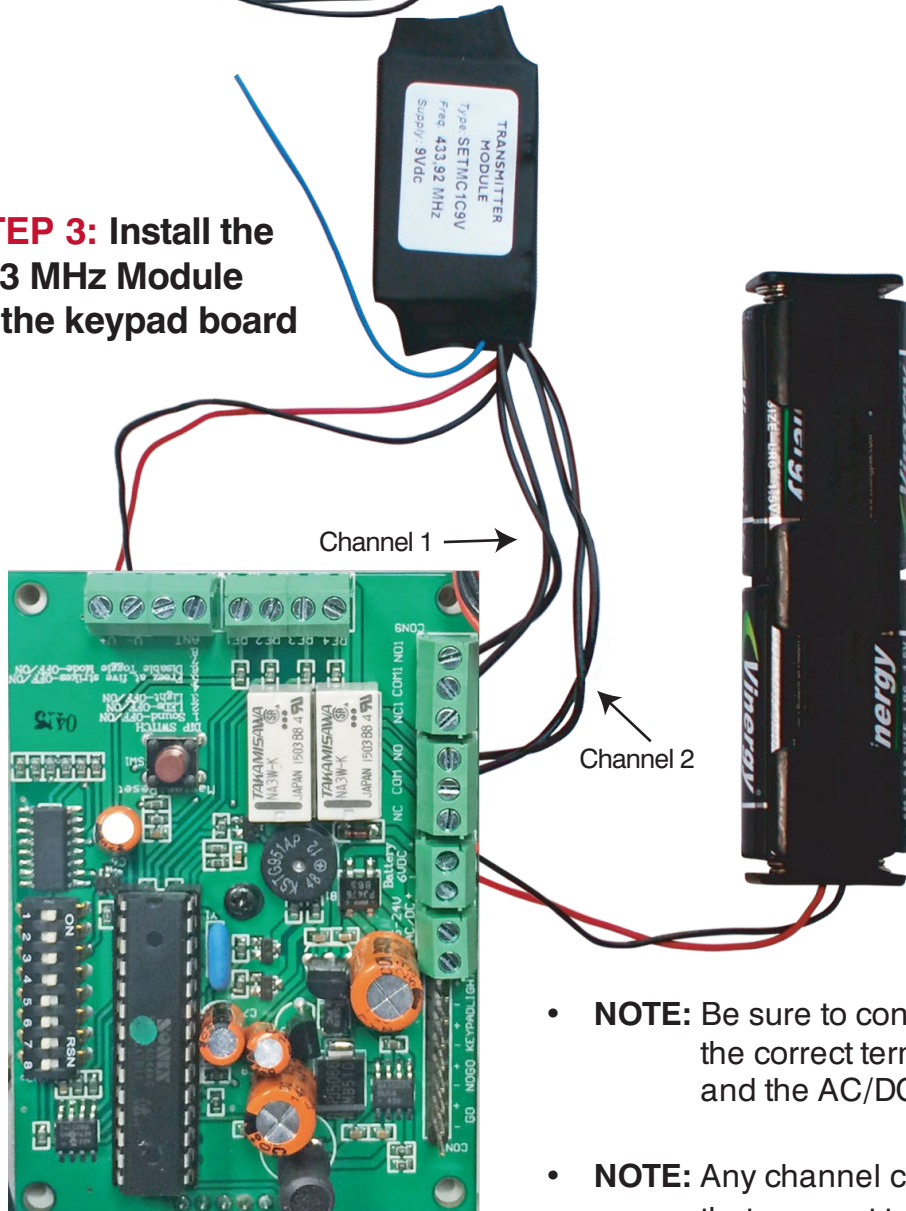
**STEP1:**  
Prepare the 433 MHz module



**STEP2:**  
Remove (cut) the battery connector

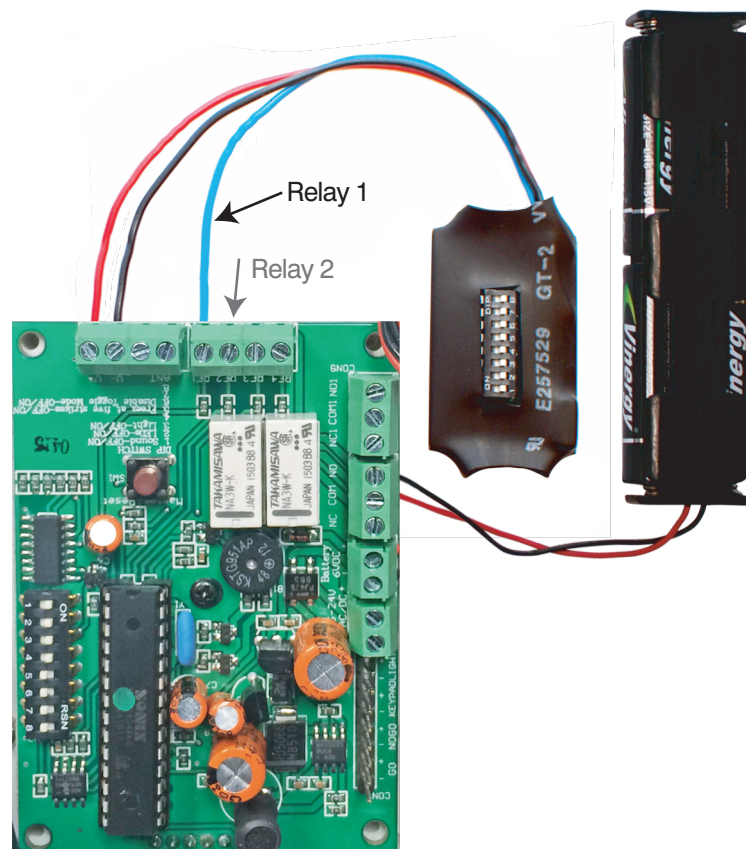


**STEP 3:** Install the 433 MHz Module to the keypad board



- **NOTE:** Be sure to connect the power source to the correct terminals! The battery terminals and the AC/DC terminals are different.
- **NOTE:** Any channel can be assigned for devices that connect to normally open/normally closed.

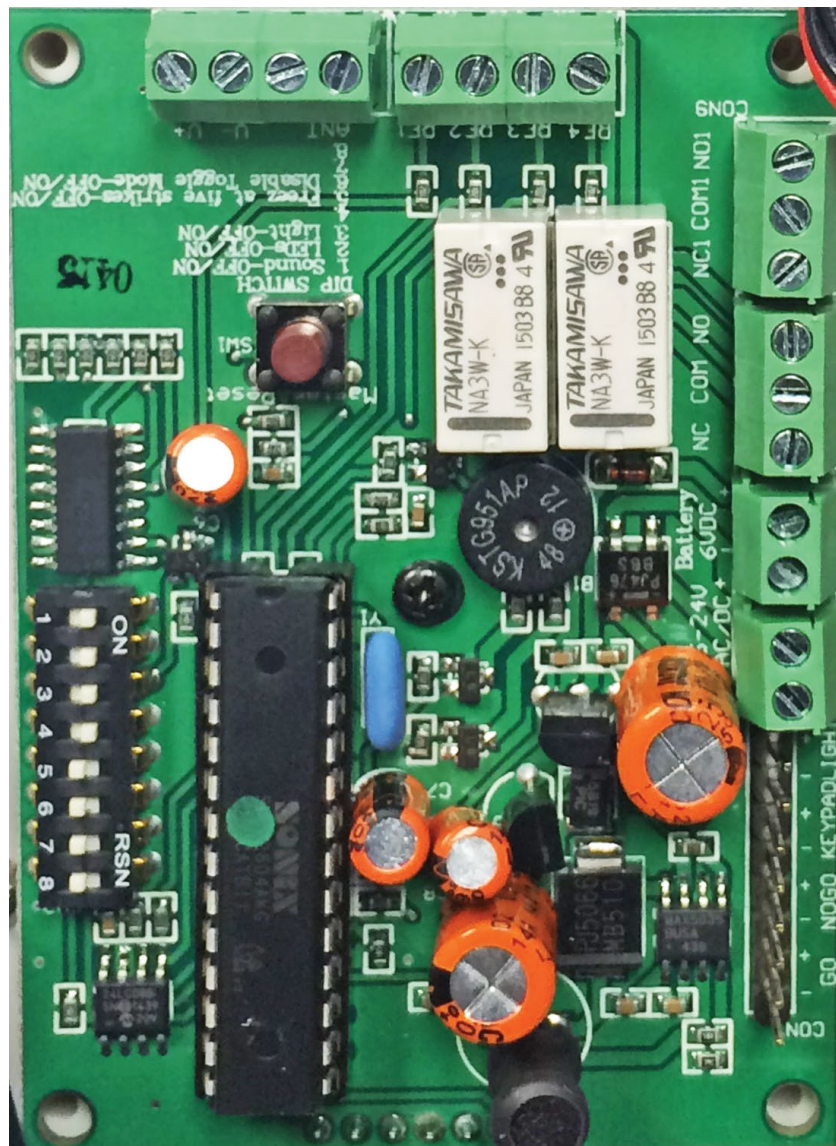
## DIP SWITCH MODULE INSTALLATION EXAMPLE:



**NOTE:** Be sure to connect the power source to the correct terminals! The battery terminals and the AC/DC terminals are different.

## DIP SWITCHES

1. SOUND
2. LED
3. LIGHTS
4. Not used
5. Not used
6. WIRELESS MODE
  - a. Switching this dip switch to off will enable the toggle gate feature and switching to the on position will disable the toggle gate feature. Disabling this feature can potentially save battery power in the case that the toggle gate feature has been accidentally activated. Refer to the programming chart for more details with the toggle gate feature.
7. Not used
8. Not used



Channel 1

Channel 2

## **TRANSMITTER SOLUTIONS WARRANTY**

The warranty period of Transmitter Solutions keypad is twenty-four (24) months. This warranty shall begin on the date the keypad is manufactured. During the warranty period, the product will be repaired or replaced (at the sole discretion of Transmitter Solutions) if the product does not operate correctly due to a defective component. This warranty does not extend to (a) the keypad case, which can be damaged by conditions outside the control of Transmitter Solutions, or (b) battery life of the keypad. This warranty is further limited by the following disclaimer of warranty and liability:

EXCEPT AS SET FORTH ABOVE, TRANSMITTER SOLUTIONS MAKES NO WARRANTIES REGARDING THE GOODS, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. BUYER MAKES NO RELIANCE ON ANY REPRESENTATION OF TRANSMITTER SOLUTIONS, EXPRESS OR IMPLIED, WITH REGARD TO THE GOODS AND ACCEPTS THEM "AS-IS/WHERE-IS". TRANSMITTER SOLUTIONS SELLS THE GOODS TO BUYER ON CONDITION THAT TRANSMITTER SOLUTIONS WILL HAVE NO LIABILITY OF ANY KIND AS A RESULT OF THE SALE. BUYER AGREES THAT TRANSMITTER SOLUTIONS SHALL HAVE NO LIABILITY FOR DAMAGES OF ANY KIND, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURIES TO PERSONS OR PROPERTY, TO BUYER, ITS EMPLOYEES OR AGENTS, AS A RESULT OF THE SALE. BUYER ALSO AGREES TO HOLD TRANSMITTER SOLUTIONS HARMLESS FROM ANY CLAIMS BUYER, OR ANY THIRD PARTY, MAY HAVE AS A RESULT OF BUYER'S USE OR DISPOSAL OF THE GOODS. BUYER HAS READ THIS DISCLAIMER AND AGREES WITH ITS TERMS IN CONSIDERATION OF RECEIVING THE GOODS.

## **SPECIFICATIONS**

IP Rating: IP64

Temperature Rating: -40C to 70C / -40F to 158F

Size: 7 1/2in. x 7 3/4in. x 3 5/8in.

Weight: 1 3/4 lbs.

Housing: ABS

Face Plate Material: ABS

Operating Voltage: 6-24 AC/DC

Output relays: 1A

**The keypad is approved by the FCC and it complies with Part 15 of the FCC Rules. Its operation is subject to the following 2 conditions:**

- 1. This device may not cause harmful interference.**
- 2. The device must accept any interference that may cause undesired operation.**



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