

# e-ASK

electronic **A**ccess **S**ecurity **K**eyless-entry

## e-FOB / e-PAD Consumer Manual

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(UM12 ~ 22271-02)



 **TriMark**<sup>®</sup>

500 Bailey Avenue  
P.O. Box 350  
New Hampton, Iowa 50659 U.S.A.  
Tel: 641-394-3188  
Fax: 641-394-2392  
[www.trimarkcorp.com](http://www.trimarkcorp.com)

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# Introduction

This manual provides the necessary information for the proper installation and use of TriMark's Discrete **e-PAD / e-FOB** System.

The Discrete **e-PAD / e-FOB** system includes:

- **e-FOB** (keyless entry radio frequency [RF] FOB transmitter and receiver)
- **e-PAD** or **e-GRAB** Handle (keypad user interface) - Keypad integrated grab handle. **Clean acrylic rod with mild soap and water only.**

The Full-Feature RF receiver and FOB transmitters are shipped programmed. After making all necessary wiring connections the **e-PAD / e-FOB** system will function as indicated in this manual.

**TriMark Full-Feature  
RF Controller**



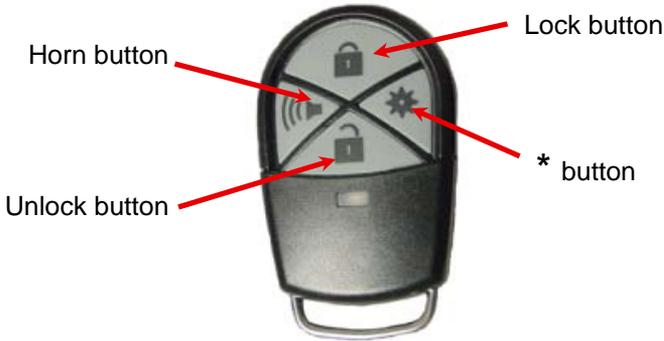
**e-GRAB Handle**



**e-PAD** - available vertical  
or horizontal



# **e-FOB Operation and Features - Standard Mode**



Button	Function
<b>Lock</b>	Locks all doors and arms security system.
<b>Unlock</b>	Unlocks doors and disarms security system. Also activates the dome light.
<b>Horn</b>	Activates panic mode when pressed and held for 2 seconds.
<b>* button</b>	* button function is OEM/dealer defined. Possible assignment include: interior/exterior lighting, awning extension/retraction, gas cap, hood, etc.

**Notes:**

- While the engine is running only the entry unlock function of the **e-FOB** remains activated —other functions are deactivated.

# e-FOB Operation and Features - Cargo Mode



Button	Function
<b>Entry Lock</b>	Locks entry doors and arms security system.
<b>Entry Unlock</b>	Unlocks entry doors and disarms security system. Also activates the porch light.
<b>Cargo Lock</b>	Locks compartment doors and arms security system.
<b>Cargo Unlock</b>	Unlocks compartment doors and disarms security system.

**Notes:**

- While the engine is running only the entry unlock function of the **e-FOB** remains activated —other functions are deactivated.

# Standard e-PAD Operation and Features

The e-PAD is shipped with default *Authority* and *Access Codes*. Unless the OEM or dealer has changed default codes, the *Authority* and *Access Codes* are:

Access code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1 / 2	3 / 4	5 / 6	7 / 8	9 / 0

Authority code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
7 / 8	7 / 8	7 / 8	7 / 8	7 / 8



## Lock Doors with Keypad

Press and hold down the (1 / 2) or button for 1-2 seconds. An access code is not needed to lock the doors.

## Using Secure Operations

Entering a valid 5-digit *Access Code* provides a double-beep and enables a secure operation. After entering an *Access Code*, the keypad is enabled for 5 seconds and the next button pressed initiates a secure operation, such as unlocking doors.

### Notes:

- The *Authority Code* does not allow for secure operations. It is only used to assign access codes.
- If an unassigned button or no button is pressed while the system is enabled, the keypad reverts back to a disabled state.
- If keypad does not provide a double beep, a valid *Access Code* has not been entered.

## Available Secure Operations

- Button (1 / 2): Unlock entry doors.
- Button (3 / 4): Unlock doors wired to 2nd Unlock output.
- Button (5 / 6): N/A
- Button (7 / 8): Sequentially activate entry unlock and 2nd unlock outputs.
- Button (9 / 0): Toggle dome light output.

# **Doorbell e-PAD Operation and Features**

Access code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1	2	3	4	4

Authority code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
4	4	4	4	4



## **Lock Doors With Keypad**

Press and hold down the (1) button for 1-2 seconds. An access code is not needed to lock the doors.

## **Door Bell Operation**

The doorbell button provides a 0.5 second ground pulse from the 2nd Auxiliary output when pressed. An access code is not necessary for the doorbell. DIP Switch #8 and #9 of the RF receiver must be OFF to provide the correct output.

## **Using Secure Operations**

Entering a valid 5-digit access code provides a double beep and enables a secure operation. After entering an access code, the keypad is enabled for 5 seconds and the next button pressed initiates a secure operation, such as unlocking doors.

### **Notes:**

- The authority code does not allow for secure operations. It is only used to assign access codes (see page 9 for information on setting authority and access codes).
- If an unassigned button or no button is pressed while the system is enabled, the keypad reverts back to disabled state.
- If keypad does not provide double beep, a valid access code has not been entered.

## **Available Secure Operations**

- Button (1): Unlock entry doors.
- Button (2): Unlock doors wired to 2nd Unlock output.
- Button (3): NA
- Button (4): Sequentially activate entry unlock and 2nd unlock outputs.

## **More e-PAD Features**

### **Protective Deactivating Security Feature**

If a correct code is not entered after 20 button presses, the keypad enters an inactive mode that disables button recognition for 1 minute. This helps prevent unauthorized access by entering random codes. There is no button feedback while the system is disabled.

### **Buzzer Operation**

The keypad buzzer chirps once when power is first applied to the keypad and for each key press during regular use. When an authorized access code is entered, the system chirps twice to indicate readiness to secure operation.

The keypad chirps twice for each button press while in learn mode. When a new access code is defined, the system chirps 3 times. If an incorrect code is entered during learn mode, there is a 1-2 second chirp.

### **Grab Handle Lighting**

The acrylic rod LED is powered separately from the keypad. The OEM wiring determines when the rod is lit. The **e-PAD** is lit with a button press and while training new access and authority codes.

### **Dome Light Activation**

The dome light is toggled on for 5 minutes with a secure (9 / 0) operation. Repeating the (9 / 0) operation while the dome light is on will turn the light off.

### **Emergency Override**

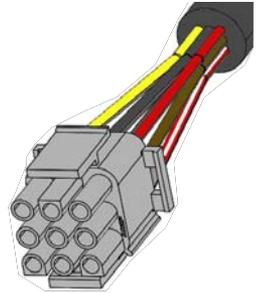
To disarm the alarm in case of FOB transmitter and access code loss:

1. Turn ignition on (apply 12V to yellow wire of C1).
2. Press and hold the push button for 3 seconds.
3. Turn ignition off (remove 12V from yellow wire of C1).

# Teaching Keypad New Authority / Access Codes

**IMPORTANT:** READ ALL INSTRUCTIONS FOR EACH OPTION AND ALL NOTES **BEFORE BEGINNING** TO KNOW WHAT TO EXPECT DURING THE PROGRAMMING PROCESS.

The *Authority Code* has only one purpose; it grants the owner the ability to set new *Access Codes*. The *Authority Code* must be **EXACTLY 5** digits long. There are two ways to set the *Authority Code* with the TriMark Full Feature System. Changing the *Authority Code* erases all previous *Access Codes* and sets a new *Access Code* in memory bank 1 that is the same as the new *Authority Code*.



**Important:** *Authority* and *Access Codes* should be different for the greatest security.

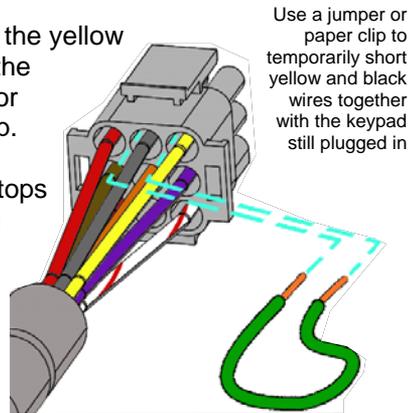
**Option 1.** Use when you cannot find the RF controller or if the OEM does not fully install the *e-PAD / e-FOB* system.

## Preparation:

1. Find the wiring harness coming out of the back of the keypad. This is usually behind the passenger armrest next to the entrance door.

## Programming:

2. With the keypad still plugged in, short the yellow wire to ground (a paper clip between the yellow and black wires in the connector works) until the keypad begins to beep.
3. The keypad will beep for 3 seconds; remove the short before the keypad stops beeping. The keypad is now in "Learn Mode."
4. Enter a new 5-digit *Authority Code* (double chirps after each button press). The keypad chirps 3 times after the 5<sup>th</sup> digit's entry.
5. Re-enter the new *Authority Code* for confirmation. The keypad will chirp **FOUR** times for successful confirmation. **A long beep indicates a failure to change the code.**
6. Test the new code to confirm it.



**Option 2.** Use when you have access to the RF controller and you are certain the OEM has fully hooked up **e-PAD / e-FOB** system (not common).

**Preparation:**

1. Plug the LED into C6 and the push button into C7 on the receiver (see page 6).
2. Disarm alarm (see emergency override page 6) and turn ignition on (12V at yellow wire of C1).

**Programming:**

3. Press and release the push button 3 times. Wait 3 seconds. The keypad will beep for 3 seconds. The keypad is now in “Learn Mode”.
4. Enter a new 5-digit *Authority Code*. (Double chirps after each button press). The keypad chirps 3 times after the 5<sup>th</sup> digit’s entry.
5. Re-enter the new *Authority Code* for confirmation. The keypad will chirp FOUR times after successful confirmation. **A long beep indicates a failure to change the code.**
6. Test the new code to confirm it.

The user is given 2 minutes to complete this procedure. If it isn’t completed in time, or an error is made, the system will exit learn mode and a long chirp will sound to indicate the error.

**Notes:**

- While in “Learn Mode,” each button push provides a double-chirp and the backlight flashes.
- The authority code is to be controlled by individuals (owners of vehicle, fleet manager, etc.) who manage the distribution of access codes to vehicle users.
- The authority code should be changed when the vehicle is sold.
- The authority code does not enable secure functions (lock/unlock doors, etc.)—it is only used to assign access codes.
- Doorbell systems only allow codes using buttons 1-4 and provides for 4 unique access codes.
- The keypad automatically leaves “Learn Mode” when the new code is set.

The following area can be used to document the *Authority Code*:

Authority Code				
Digit 1	Digit 2	Digit 3	Digit 4	Digit 5

## Assign New Access Codes

The *Access Codes* are used for secure functions, such as unlocking doors. The *Access Codes* must be **EXACTLY 5** digits long. With a valid *Authority Code*, an *Access Code* can be programmed with the following instructions:

1. Press the (5 / 6) or (3) button for 5 seconds until the keypad beeps. The backlighting of the keypad will flash indicating the keypad is in "Learn Mode."
2. Enter the 5-digit *Authority Code* (see page 4 for the code).
  - If you enter an **INCORRECT** *Authority Code*, the keypad will beep for 1 second, and leave "Learn Mode."
  - If you enter a **CORRECT** *Authority Code*, the keypad will provide a constant beep that will only stop after you have defined a **memory bank** to store the new *Access Code*.
3. Press and release the button that corresponds to the **memory bank**. For example, press (1 / 2) or (1) button for Memory #1 and press (3 / 4) or (2) button for Memory #2. During this activity you are choosing 1 of 5 (4) memory banks.
4. Enter a new 5-digit *Access Code*. The keypad chirps 3 times after the 5<sup>th</sup> digit's entry.
5. Re-enter the new *Access Code* for confirmation. The keypad will chirp 3 times after a successful confirmation. A long beep indicates a failure to change the code.
6. Test the new code to confirm a successful change.

Repeat process to assign additional *Access Codes*.

### Notes:

- Up to 5 (4 for doorbell keypads) different *Access Codes* can be assigned at any time. As additional *Access Codes* are defined, pre-existing *Access Codes* are overwritten. For example, if a new *Access Code* is assigned to Memory #3, the previous *Access Code* in Memory #3 is no longer valid.
- If an error is made at any point, or if time runs out, the keypad will exit "Learn Mode," provide a 1-2 second beep, and not change anything.

The following area can be used to document the access code assignments:

Memory #	User Name	Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1/2 (1)						
3/4 (2)						
5/6 (3)						
7/8 (4)						
9/0						

# **Additional System Features**

## **Light Activation**

When the alarm is armed, the parking lights and headlights flash. With an unlock instruction from either the fob transmitter or keypad; the dome light stays illuminated for 30 seconds and the parking and headlights flash.

## **2nd Unlock Output**

Press and release the Unlock button on the fob transmitter twice for a pulse output. Enter secure operation (3 / 4) or (2) from keypad. (Standard mode only.)

## **3rd Unlock Output**

The 3rd Unlock output is actuated with the unlock command and with the secure operation (5 / 6) or (3). (Standard mode only.)

## **2nd Auxiliary Output**

The 2nd Auxiliary output is actuated by pressing the doorbell button on the keypad or holding down the unlock button for two seconds.

## **Panic Mode**

Pressing and holding the Horn button (center left) for 2 seconds activates panic mode. During panic mode, horn/siren is continuously activated and headlights and parking lights flash for 30 seconds. Pressing the unlock button deactivates panic mode. (Standard mode only.)

## **Lock/Unlock Confirmation**

The horn and siren chirp once when the alarm is armed. If the alarm has been set off since the last unlock command, the siren and horn chirp 4 times to indicate the alarm activity when the system is disarmed. The horn and siren chirp twice on unlock. The headlight and parking light outputs pulse once on a lock and unlock.

## **Lock/Unlock Confirmation Control**

The siren and horn confirmation is controlled by pressing lock, unlock, and auxiliary (\*) buttons at the same time. A single chirp is heard when confirmation is muted. A double chirp occurs when turned on. Cargo mode: Press entry lock, entry unlock, and cargo unlock.

## Emergency Override

To disarm the alarm in case of FOB transmitter and access code loss:

1. Turn ignition on (apply 12V to yellow wire).
2. Press and hold the push button for 3-seconds. LED turns off.
3. Turn ignition off (remove 12V from yellow wire).

## Starter Kill Feature

The starter kill feature is active for 30 minutes after the alarm is activated.

## Smart LED:

The smart LED indicates system alarm status:

- Slow flash = Armed
- Off = Disarmed
- Fast flash = Alarm activated

## Vehicle Alarm

The alarm is armed with either a single or double lock press. When the alarm is armed, the parking lights flash and the horn/siren chirp. The smart LED flashes continuously.

The alarm is activated with a security trigger input or if the ignition is started. The horn, siren, parking lights and head lights flash for 30 seconds. The starter kill is activated for 30 minutes. Press the unlock button to deactivate the alarm.

There is a 5 second delay before the system will recognize a security input. If a security input (door ajar switch, motion sensor, glass break sensor, etc.) is triggered while the alarm is armed, the security input must be turned off and then on before the alarm is activated. The horn and siren chirp 3 times if a security input is active when the alarm is armed.

# Troubleshooting

Problem Description	Possible Solution
<b>e-FOB Hints</b>	
Button press does not provide correct operation	Verify power to RF receiver
	Replace FOB transmitter battery
	Re-teach the FOB transmitter to the receiver
No operation or intermittent operation	Move RF receiver away from enclosed metal areas and fully extend antenna
	Check FOB transmitter battery voltage. Batteries need to be changed every 1-2 years depending on usage.
One particular <b>e-FOB</b> function does not work	Check wire connection of affected function at RF module and wiring harness
<b>e-PAD Hints</b>	
No response with button press	Verify connection of keypad.
Access code is not recognized	Verify that code has not been changed. Reassign keypad with instructions on page 8.
	Confirm use of an access code, not the authority code.
Acrylic rod develops surface cracks	A petroleum or alcohol based product was used to clean rod. Only use mild soap and water on rod.
<b>e-ASK System Hints</b>	
Entrance door does not respond to lock/unlock commands	Clean the door contacts and make sure they are not bent, damaged, or improperly aligned.
	If your doorway has a wire harness instead of contact plates in the doorway, make sure the wires are not broken.

This product has been manufactured with methods to ensure high quality and to meet the high expectations of our customers. *TriMark* warrants this product to be free from workmanship defects and will remedy issues per *TriMark's* warranty policy.

Remote transmitter FOBs, batteries, and other equipment subject to normal wear and deterioration may need to be replaced periodically by dealer and/or end user and are not covered by this warranty. *TriMark* will not be liable for indirect, special, incidental or consequential damages.

This system complies with part 15 of the FCC Rules. Operation 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.

Note: The manufacturer is not responsible for any radio or television interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.









500 Bailey Avenue  
P.O. Box 350  
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