

e-ASK

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

CAN Multiplex System Consumer Manual

(UM25 ~ 24324-01)



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Introduction

This manual provides the necessary information for the proper use of TriMark's e-ASK System.

Note: Some features discussed in this manual may not be available on your system.

Included with this system are the following components:

- **e-ASK** CAN module with integrated RF receiver and FOB transmitters
- **e-PAD** keypad user interface or **e-GRAB** keypad integrated grab handle. *Clean acrylic rod with mild soap and water only.*

Use the pictures below to properly identify the contents of this system.

CAN Vehicle Module With RF



Standard



Cargo



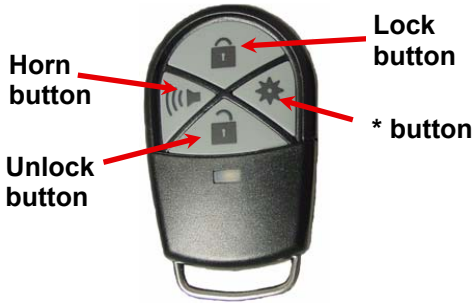
Non-doorbell Keypad



e-GRAB Handle (Doorbell)

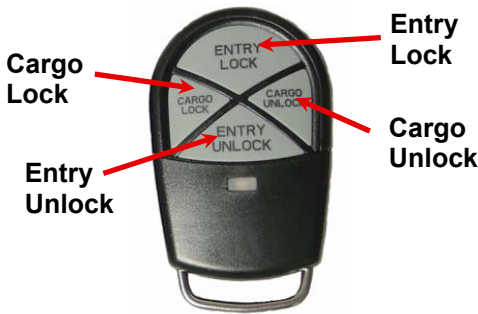


Standard e-FOB Operation and Features



Button	Function
Lock	Locks doors and arms security system.
Unlock	Unlocks doors and disarms security system. Also activates the porch light.
Horn	Activates panic mode when pressed and held for 2 seconds.
* button	Auxiliary output. Possible assignment include: interior/ exterior lighting, awning extension/retraction, gas cap release, hood release, etc.

Cargo e-FOB Operation and Features



Button	Function
Entry Lock	Locks entry door and arms security system.
Entry Unlock	Unlocks entry door and disarms security system. Also activates the porch light.
Cargo Lock	Locks cargo doors and arms security system.
Cargo Unlock	Unlocks cargo doors and disarms security system. Also activates compartment lights.

Note:

- Only the unlocking function of the **e-FOB** remains while the engine is running—other functions are deactivated.
- Upon applying battery voltage, the system may default into panic mode. This occurs if the system was armed when the battery was disconnected. Pressing the unlock button disarms the system and deactivates the panic mode.

Non-doorbell 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 as follows:

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

Doorbell 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 as follows:

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

Locking Doors With Keypad

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

Secure Operations

Entering a valid 5-digit access code enables secure operations. After entering an access code, the keypad is enabled for 5 seconds and a 6th button press initiates a secure operation, such as unlocking the doors.

Notes:

- The authority code does not allow for secure operations. It is only used to assign access codes (see page 8 for information on setting access codes).
- If an unassigned button or no button is pressed while the system is enabled, the keypad reverts back to disabled state.
- The secure keypad operations are set depending on the system configuration.

Doorbell

Press and release the doorbell button. The doorbell does not require an access code.

e-PAD Configurations

Secure operations are dependent on system configuration. The **e-PAD** system can be configured in a variety of ways (see Appendix A). Ask your dealer for the 6th digit operation for your vehicle.

The following table can be used to document the 6th digit operation of your vehicle.

6 th Digit Pressed	Operation
Button (1 / 2) or (1)	
Button (3 / 4) or (2)	
Button (5 / 6) or (3)	
Button (7 / 8) or (4)	
Button (9 / 0) or N/A	

Optional Features

These features may not be available on your vehicle.

e-PAD / e-FOB Dome/Porch Light Activation

The dome/porch light is activated for a timed duration (5-60 seconds) whenever a keypad button is pressed or when system is unlocked from FOB transmitter or vehicle switch. Contact your dealer to adjust duration. The dome/porch light is deactivated when the engine is started.

Compartment Light Activation

Compartment lights are activated upon unlocking compartment doors or toggling vehicle switch. Contact your dealer to adjust duration. Starting the engine deactivates the light.

e-PAD Protective Deactivating Feature

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

e-GRAB Handle Lighting

The grab handle is lit continuously. The **e-PAD** is lit with a button press and while training new access and authority codes.

Lock and Unlock Confirmation

- *Standard mode*: The headlights flash once and the horn honks once with a lock command. On unlock, the headlights flash twice and the horn honks twice.
- *Cargo mode*: There is no unlock confirmation. The headlights flash once and the horn honks once when either the entry or compartment doors are locked. When both entry and compartment doors are locked within 10 seconds, headlights flash twice and the horn honks twice.
- *Keypad*: The headlights flash once and the horn honks once with a lock command. On unlock, the headlights flash twice and the horn honks twice.
- Locking and unlocking confirmation is deactivated while engine is running.

Door Ajar Warning

A triple siren chirp sounds if any compartment or entry door is open when the entry and compartment doors are locked. If a door is open, the alarm is not armed.

Panic Mode

Pressing and holding the horn button of the **e-FOB** transmitter for 2 seconds activates panic mode. During panic mode, siren is continuously activated and headlights flash for a maximum of 1 minute. To deactivate panic mode, unlock the vehicle via the FOB transmitter.

Alarm Mode

After locking all doors, the system is armed. In cargo mode, both the entry door and compartment doors must be locked within 10 seconds to set the alarm. The alarm is activated when any entry door or compartment door is opened, or by an input from a security sensor (motion, shock, etc.)

When the alarm is triggered, the siren is continuously activated and headlights flash for a maximum of 1 minute. Unlocking all doors via FOB transmitter, keypad, or starting the engine deactivates the alarm.

The following table describes audio/visual activations at various conditions.

Outputs	Single Lock Confirmation	All Lock Confirmation	Alarm
Siren	Not used	Not used	1 minute or when shut off
Horn	1 chirp	2 chirps	Not used
Headlights	1 flash	2 flashes	1 minute or when shut off

* Button Activation

Standard Mode: With proper wiring and system configuration, Aux 1 output can be activated with * button on FOB transmitter, via keypad, or toggled with vehicle switch. Ask your dealer for the function assigned to this button and for adjustment of activation duration. Starting the engine deactivates the output.

Automatic Locking and Unlocking

The system may include auto-locking. When auto-locking is enabled, doors are locked 5 seconds after the engine is started. Doors unlock when the engine is turned off.

Teaching e-PAD New Access Codes

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, the keypad will beep. The backlighting LED of the keypad will flash indicating the learn mode.
2. Enter in the 5-digit authority code (see page 4 for default code). Keypad will provide a long beep that will stop after you have defined an access number.
3. Press and release the button that corresponds to the access number. During this activity you are defining 1 of 5 access numbers (4 available on doorbell system). A subsequent code will be assigned to this access #. The keypad will provide a confirmation beep after this single button press.
4. Enter in your new 5-digit access code. The keypad will provide confirmation beeps.
5. Re-enter new access code. The keypad will provide confirmation beeps.

Repeat process to assign additional access codes.

Note:

Up to 5 (or 4) different access codes can be assigned at one time. As additional access codes are defined, pre-existing access codes are overwritten. For example, if a new access code is assigned for access #3, the previous access #3 code is no longer valid.

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

User #	User Name	Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1						
2						
3						
4						
5						

Troubleshooting

Problem Description	Possible Solution
e-FOB Hints	
Button press does not provide correct operation	Verify power to the CAN module.
	Re-teach the FOB transmitter to the receiver. Ensure that only Entry Lock button is pressed while in learn mode.
No operation or intermittent operation	Mount 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.
Alarm mode starts when powered up	Press any Unlock button of FOB transmitter.
One particular e-FOB function does not work	Check wire connection of affected function at CAN module and wiring harness.
e-PAD / e-GRAB Hints	
No response with button press	Verify power to the CAN module.
	Verify that keypad cable is connected. (rest of system will function)
Access code is not recognized	Verify that code has not been changed. Reassign keypad with instructions starting on page 8.
	Confirm use of an access code, not the authority code.
Key fob works correctly, keypad beeps, but no output	Cycle power to CAN module
Unexpected, secure operation occurs	Verify DIP switches are set to correct configuration setting.

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.

Appendix A: Available e-PAD Configurations

Configuration D is standard.

Non-doorbell Configuration A

- Button (1 / 2): Unassigned
- Button (3 / 4): Unlocks all entry and compartment doors
- Button (5 / 6): Unassigned
- Button (7 / 8): Toggles Aux 1 output
- Button (9 / 0): Activates zone 6 unidirectional actuation

Non-doorbell Configuration B

- Button (1 / 2): Unlocks all entry door(s)
- Button (3 / 4): Unlocks all entry and compartment doors
- Button (5 / 6): Unassigned
- Button (7 / 8): Toggles Aux 1 output
- Button (9 / 0): Activates zone 6 unidirectional actuation

Non-doorbell Configuration C

- Button (1 / 2): Unlocks all entry doors
- Button (3 / 4): Unlocks all doors assigned to relay bank A
- Button (5 / 6): Unlocks all doors assigned to relay bank B
- Button (7 / 8): Unlocks all doors assigned to relay bank C
- Button (9 / 0): Unlocks all doors assigned to relay bank D

Non-doorbell Configuration D

- Button (1 / 2): Unlocks all entry doors
- Button (3 / 4): Unlocks all entry and compartment doors
- Button (5 / 6): Unlocks all curb side compartment doors (relay banks C-D)
- Button (7 / 8): Unlocks all driver side compartment doors (relay banks A-B)
- Button (9 / 0): Toggles Aux 1 output



Doorbell Configuration A

- Button (1): Unassigned
- Button (2): Unlocks all entry and compartment doors
- Button (3): Unassigned
- Button (4): Toggles Aux 1 output
- Button (doorbell): Activates zone 6 unidirectional actuation

Doorbell Configuration B

- Button (1): Unlocks all entry door(s)
- Button (2): Unlocks all entry and compartment doors
- Button (3): Unassigned
- Button (4): Toggles Aux 1 output
- Button (doorbell): Activates zone 6 unidirectional actuation

Doorbell Configuration C

- Button (1): Unlocks all entry doors
- Button (2): Unlocks all doors assigned to relay bank A
- Button (3): Unlocks all doors assigned to relay bank B
- Button (4): Unlocks all doors assigned to relay bank C
- Button (doorbell): Activates zone 6 unidirectional actuation

Doorbell Configuration D

- Button (1): Unlocks all entry doors
- Button (2): Unlocks all entry and compartment doors
- Button (3): Unlocks all compartment doors (relay banks C-D)
- Button (4): Unlocks all compartment doors (relay banks A-B)
- Button (doorbell): Activates zone 6 unidirectional actuation





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