



# 2WAY-UNIVKF Bi-Directional LCD KeyFob Installation Instructions



## 2WAY-UNIVKF - The 2-Way Universal LCD Keyfob that puts the power of a keypad in your pocket.

### Easy LCD ICON Indicators

	<b>Burglar Alarm</b>
	<b>Fire Alarm</b>
	<b>Armed - Away</b>
	<b>Armed - Stay</b>
	<b>Armed - Zones Bypassed</b>
	<b>Disarmed - Zones Faulted</b>
	<b>Disarmed - System Ready</b>
	<b>Transmit</b>
	<b>System Trouble</b>

Note: Grey ICON indicates pulsing

NAPCO introduces the new 2WAY-UNIVKF, the security industry's only universal bi-directional Keyfob with LCD status display and integral mini sounder, supported by a revolutionary 2-way receiver.

Designed to be compatible with most major control panel brands, including NAPCOs Gemini and Magnum and others such as ADEMCO, DSC and more, this 2-Way Keyfob is super-miniaturized for portability yet packs tremendous sales potential and consumer market appeal.

System Status is indicated through 8 intuitive ICONS (a lock, a house, a flame, etc.) on the LCD display, accompanied by corresponding beep sequences on its mini sounder. Providing both easily understood visual and audible feedback, the user always knows with certainty that the system has carried out their command.

In addition to the many standard commands it can issue the system, it can also control up to 2 groups of lighting control, such as X-10, and up to 2 separate Garage Doors.

NAPCO 2WAY-UNIVKF keyfobs are also sold in a kit with the 2-way receiver, Model 2WAY-UNIVKFKIT. Each receiver supports up to 7 keyfobs.

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## General Description

The 2WAY-UNIVKF is a miniature remote control device which provides 4 buttons to issue commands to a security system and confirms status visually and audibly through an LCD ICON screen and a mini sounder. It is keypad bus compatible with the NAPCO Gemini Series control panels as well as the Ademco Vista 10 and 20 series. It is also universally compatible with any control panel which offers keyswitch arming and an armed status output.

Keypad Bus compatible control panels:

NAPCO: GEM-P816  
 GEM-P1632  
 GEM-3200  
 GEM-P9600

Ademco: Vista 10  
 Vista 20

For additional information and details on universal operation, see system overview on page 4.

## Features

- 3 Form C Relay Outputs
  - Arm/Disarm
  - Panic
  - Garage Door Control
- Lighting Control or Second Garage Door control

## Specifications

- Input Voltage: 12V DC Nominal
- Input Current: 40mA standby, 90mA max. (all relays active)
- Operating Temperature: 0-49°C (32-120°F)
- Maximum # of KeyFobs supported: 7
- Dimensions:
  - Receiver: 6 3/4" X 3 5/8" X 1 1/2"
  - KeyFob: 2 " X 1 3/8" X 1/2"
- Relay Contact Rating: 1A @ 24 VDC
- KeyFob Battery: 1.5V Alkaline AAA size
- Frequency: 431 Mhz
- Operating Range: 750 feet (open air)

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For Technical Assistance, Contact the NAPCO

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## SYSTEM OVERVIEW

The 2WAY-UNIVKF is compatible with virtually any control panel either through bus compatible operation or universal mode operation. When used on a panel on which it is bus-compatible, full functionality is realized, including lighting, appliance and X10 control. When used in the Universal Mode, functionality is dependent on the feature set of the control panel, such as a keyswitch arm zone for arm / disarm capability, an armed output to provide an Armed indication, a steady bell output for an alarm indication and a pulsing bell output for a fire alarm indication.

This manual is divided into 3 sections which are marked on the outer border of each page - **General Information** (pages 2-6), which applies to both modes of operation, **NAPCO Gemini / Ademco Bus Operation** (pages 8-12) and **Universal Operation** (pages 13-19). After reviewing the General Information section for an overview on the system, refer to the section which applies to the type of installation at hand, Bus or Universal Operation and follow all indicated steps.

### Bus Mode Features

#### Keyfob Commands

- Arm / Disarm
- Stay Mode Arming
- Panic
- Garage Door Control
- Appliance Control 1 / † Relay Group 1 Control
- Garage 2 or Appliance Control 2/ † Relay Group 2 Control

#### Keyfob Indicators

- Armed
- Armed Stay
- Armed / Zones Bypassed
- Disarmed / System Ready
- Disarmed / Zones Faulted
- Alarm
- Alarm Memory
- Fire Alarm
- System Trouble

Use these tables to determine the Keyfob functionality you can expect when used on a particular control panel.

### Universal Mode Features

Keyfob Commands	Required Control Panel Feature
• Arm / Disarm	Keyswitch arm zone or input (Momentary)
• Stay Mode Arming	Automatic Interior Bypass
• Panic	24 hour panic zone
• Garage Door Control	Standard

Keyfob Indicators	Required Control Panel Feature
• Armed / Disarmed	Armed output or lug (high or low)
• Armed Stay	Automatic Interior Bypass
• Alarm	Steady bell output (high or low)
• Alarm Memory	Steady bell output (high or low)
• Fire Alarm	Pulsing Bell output (high or low)

† NAPCO GEM-P3200 & P9600 only

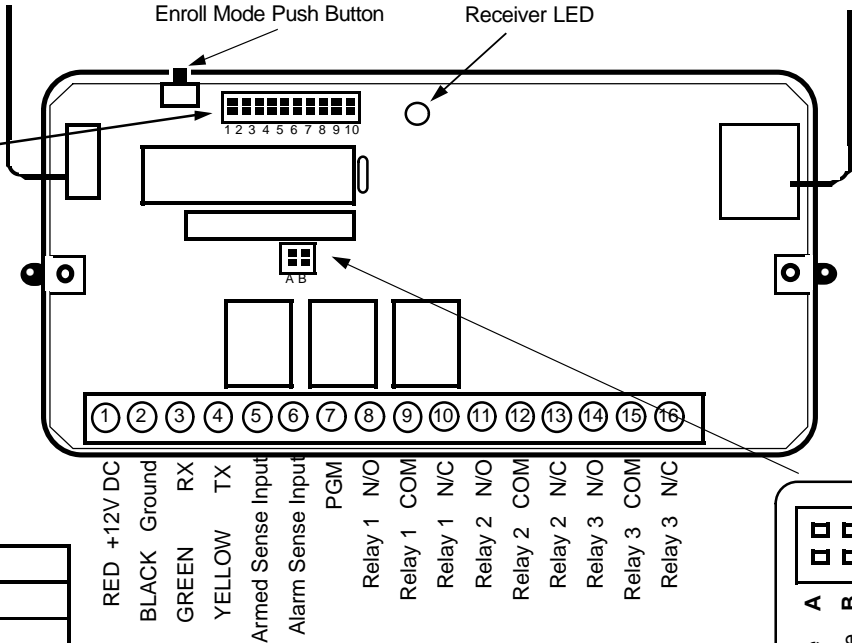
## WIRING DIAGRAM AND SYSTEM CONFIGURATION

### System Configuration Jumpers

RES	RE4	RE3	RE2	RE1	R2T	AR	A3	A2	A1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>	<b>J5</b>	<b>J6</b>	<b>J7</b>	<b>J8</b>	<b>J9</b>	<b>J10</b>	
Reserved	Invert Stay Mode	PGM	Panel Type	Panel Type	Panel Type	Relay 2 momentary	Reserved	Keypad Address	Keypad Address	Keypad Address



- 1 RED +12V DC
- 2 BLACK Ground
- 3 GREEN RX
- 4 YELLOW TX
- 5 Armed Sense Input
- 6 Alarm Sense Input
- 7 PGM
- 8 Relay 1 N/O
- 9 Relay 1 COM
- 10 Relay 1 N/C
- 11 Relay 2 N/O
- 12 Relay 2 COM
- 13 Relay 2 N/C
- 14 Relay 3 N/O
- 15 Relay 3 COM
- 16 Relay 3 N/C

Receiver LED Indications	
KeyFob Enroll Mode	Rapid Flash
User Enroll Mode	Rapid Flash / Pulse
Universal Mode Normal Operation	Steady
Bus Mode Normal Operation	Pulsing <i>If not pulsing in Bus Mode, check the following:</i> <ul style="list-style-type: none"> <li>• Keypad not programmed</li> <li>• Bus wiring incorrect</li> </ul>

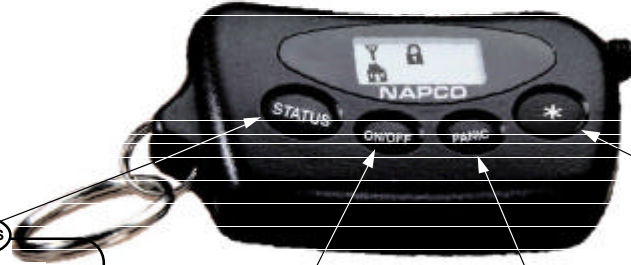
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A	B	C

Invert Alarm Sense  
Invert Armed Sense

## CONTROLS AND INDICATORS

### Controls

The KeyFob's 4 command buttons provide complete system control. Commands are issued to the alarm system by either pressing or holding down (for 2 seconds) the appropriate button.



The KeyFob antenna may be extended for increased operating

**STATUS**

Press **STATUS** to update the display with the current system status.

The proper icon(s) will appear, accompanied by the appropriate beep(s). (see Audible Indicators)

The icon(s) will automatically go out in about 6 seconds.

**ON/OFF**

Press **ON/OFF** to arm or disarm the alarm system. Hold Down **ON/OFF** to Arm the system in STAY mode.

**PANIC**

Hold Down **PANIC** for 2 seconds to activate a panic alarm.

**ON/OFF**

AND

**\***

Press **ON/OFF** and **\*** simultaneously to activate lighting or other special application.†

**\***

Press **\*** to open garage door

Hold Down **\*** for 2 seconds to activate lighting or other special application. †

OR

Hold Down **\*** for 2 seconds to open a second garage door. †

### Audible Indicators

Each time a command is issued, the KeyFob's mini sounder will issue an audible confirmation beep with the visual indication.

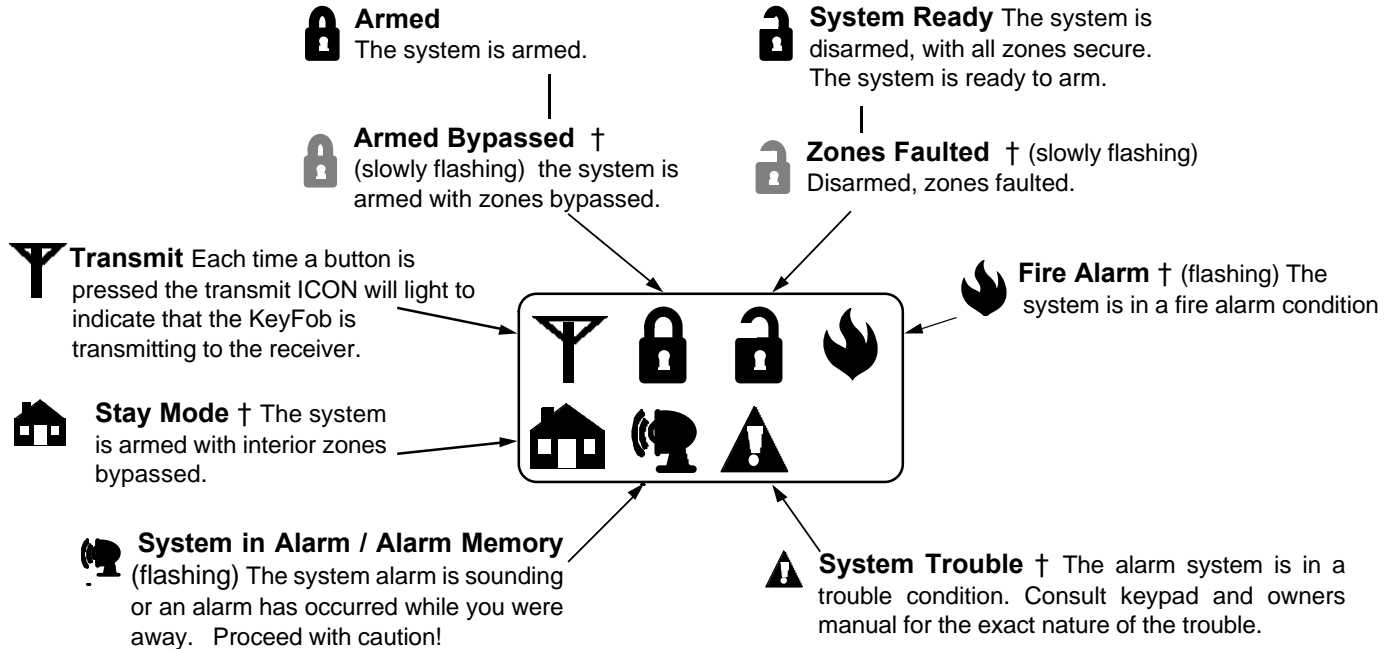
# of Beeps	Status
1	Armed
2	Disarmed
3	Armed, Stay mode
4	Armed, zones bypassed
5 †	System Trouble
6... (repeats)	Alarm !

† Bus Operation Only

## CONTROLS AND INDICATORS

### Visual LCD Indicators

The 2WAY-UNIVKF uses a series of icons to convey the status of the system. Each time the STATUS button is pressed, or a command is issued, the appropriate icon(s) will display for about 6 seconds. For example, if ON/OFF is pressed to arm the system, the Armed Icon will light in a few seconds to confirm that the command was successfully carried out. Below is a description of each icon indicator. *Please note that the icons marked † are optional and may not apply to all systems.*



## STEP 1 - WIRING AND CONFIGURATION

### Mounting

The 2 way receiver should be mounted in a location which is centrally located in the area of anticipated usage. It is not recommended that the receiver be installed in an attic or mounted within 24 inches of any metallic objects. Installation in a basement will result in reduced range. It should not be mounted in the control panel enclosure. The receiver should be positioned with the antennas pointed up.

### Wiring

The 2WAY-UNIVKF is compatible with the keypad bus of the NAPCO Gemini GEM-P816, GEM-P1632, GEM-P3200 and GEM-P9600 control panels. It is also compatible with the keypad bus of the Ademco models Vista 10 and 20. Note: for Bus Operation, DO NOT connect any wires to terminals 5 & 6.

### Programming

The Gemini control panel must be programmed for an additional keypad. *For example if the installation currently has 2 keypads, an additional keypad, keypad # 3 must be enabled in programming.* This is not required for the Ademco Vista 10 and 20.

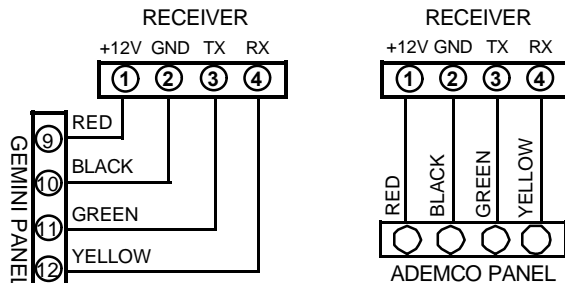
If KeyFob panic is desired, Keypad Panic should be enabled in the control panel program. For the Ademco Vista 10 and 20, zone 95 must be programmed for 24 Hr Audible or 24 Hr Silent. For the Vista 20 zone 99 must be programmed for 24 Hr Audible or 24 Hr Silent.

### Configuring the Receiver Address

For the NAPCO Gemini bus operation, the receiver must be addressed to match the address of the additional keypad enabled in programming above. *For example, if the receiver is to be addressed as keypad 3, refer to the Receiver Address Chart and install the appropriate address jumpers (J8 off, J9 ON, J10 ON).* This is not required for the Ademco Vista 10 and 20.

### Configuring the Control Panel Type

For a bus compatible installations only, refer to the Panel Type Configuration



RECEIVER ADDRESS CHART			
KEYPAD #	ADDRESS JUMPERS		
	J8	J9	J10
1	off	off	off
1	off	off	<b>ON</b>
2	off	<b>ON</b>	off
3	off	<b>ON</b>	<b>ON</b>
4	<b>ON</b>	off	off
5	<b>ON</b>	off	<b>ON</b>
6	<b>ON</b>	<b>ON</b>	off
7	<b>ON</b>	<b>ON</b>	<b>ON</b>

PANEL TYPE CONFIG. CHART			
PANEL TYPE	CONFIG. JUMPERS		
	J3	J4	J5
NAPCO GEM-P816, P1632, P3200, P9600	off	off	off
Ademco Vista 10, 20	off	off	<b>ON</b>



## STEP 2 - ENROLLING KEYFOBS

### Enrolling and Removing KeyFobs

Each KeyFob to be used in the system must be enrolled into the receiver. The following procedure is used to enroll the unique RF ID number stored in the non volatile memory of each KeyFob into the receiver memory.

- 1 Arm system from any keypad
  - 2 Disarm system from any keypad
  - 3 Enter Unique Code **1114** [ON/OFF] / [STAY] → The Enroll Mode LED will flash rapidly.  
*The keypad will give error beeps - ignore.*
  - 4 Press the \* button on KeyFob 1 → The KeyFob will sound a confirmation beep.
- .... Repeat for each KeyFob to be enrolled
- Press [RESET] on Keypad OR [ON/OFF] on Keyfob → Exit Enroll Mode - the Enroll Mode LED will go out
  - All instructions which require keystroke entry on the NAPCO or Ademco keypad will be followed by the appropriate button in [NAPCO] / [Ademco] format. For example [ON/OFF] / [STAY].
  - The Keyfob Enroll Mode may also be entered / exited by pressing the the Enroll Mode Push Button on the top of the receiver. See page 15 for more information.

**To Remove a lost KeyFob from the system:** Enter and then exit the Keyfob Enroll Mode. Enter 1114 [ON/OFF] / [STAY] and then press [RESET]. All keyfobs will be deleted from the system.

## STEP 3 - ENROLLING USER CODES

### Enrolling User Codes into the 2 Way receiver

The 2 way receiver must be “taught” the User code which will represent each KeyFob to be used on the system. This allows the receiver to uniquely identify each KeyFob and log KeyFob opening and closing activity in the control panel’s event buffer as well as report openings and closings by KeyFob user if desired.

**Note: Before proceeding, a 4 digit User Code representing each KeyFob must be programmed into the control panel.**

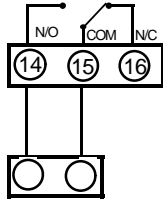
- 1 Arm system from any keypad
  - 2 Disarm system from any keypad
  - 3 Enter Unique Code **1113** [ON/OFF] / [STAY] → Enroll Mode LED will flash / pulse  
The keypad will give error beeps - ignore.
  - 4 Enter **4 digit User Code** to represent KeyFob # 1, press [ON/OFF] / [AWAY] → System will Arm
  - 5 Reenter the **4 digit User Code** for KeyFob # 1, press [ON/OFF] / [OFF] → System will Disarm  
System will automatically test code by quickly Arming and Disarming.
- ... Repeat steps 4 & 5 for each KeyFob to be enrolled
- Press [RESET] on Keypad → Exit Enroll Mode - the Enroll Mode LED will go out

## GARAGE DOOR CONTROL / SPECIAL APPLICATIONS

When installed on the bus of a Gemini Series or Ademco control panel, the receiver Relays 1 and 2 are available for other applications such as lighting or appliance control, while Relay 3 remains dedicated to the control of a garage door opener. It is also possible to configure Relay 2 to control a second garage door (or other access application requiring a momentary closure). Pressing [\*] will activate Relay 3 momentarily and holding down [\*] for 2 seconds will activate Relay 2 momentarily when configured for garage door 2 operation. (Install Jumper 6 - Relay 2 momentary).

### Garage Door Control

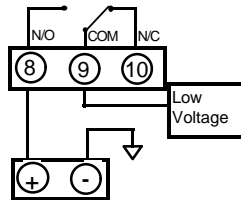
Press [\*] to momentarily activate Relay 3 to open a garage door.



Garage door opener wall mounted push-button, or normally open garage door opener input.

### Relay 1 Appliance Control

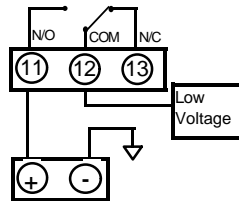
Press [ON/OFF] and [\*] simultaneously to toggle Relay 1 On / Off



Lighting or other special application device.

### Relay 2 Appliance Control

Hold Down [\*] for 2 seconds to toggle Relay 2 On / Off

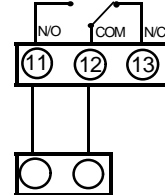


Lighting or other special application device.

### Relay 2 Second Garage Door Control

Hold Down [\*] for 2 sec. to momentarily activate Relay 2 to open a second garage door.

Install Jumper across Config Pins J6



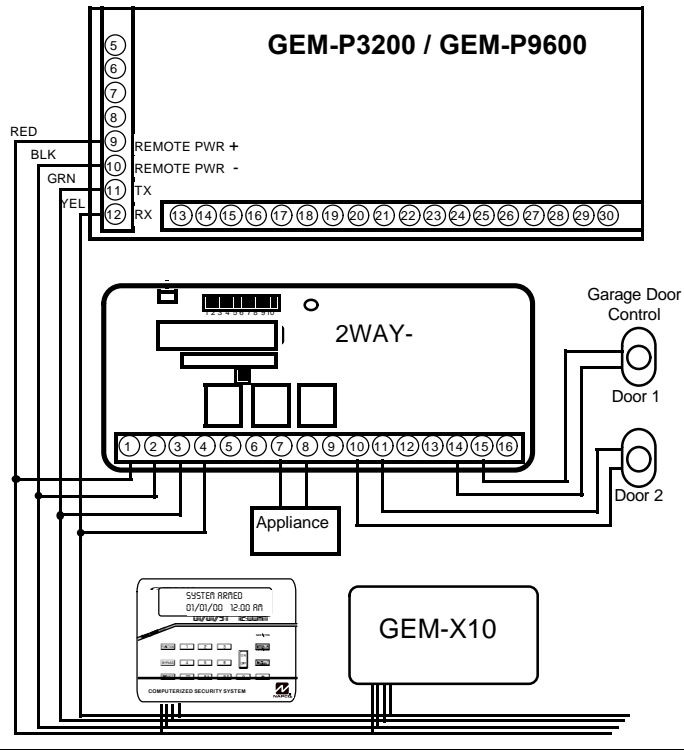
Garage door opener wall mounted push-button, or normally open garage door opener input.

### Gemini Relay Control Group Support

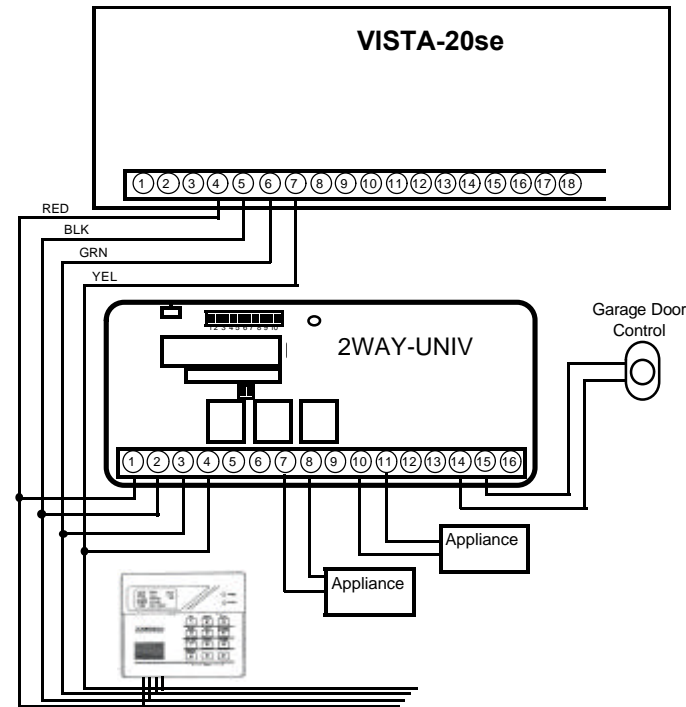
When used on a Gemini series control which supports Relay Control Groups (GEM-P3200 & P9600), each time the KeyFob is used to activate Relay 1 or Relay 2, Relay Control groups 1 & 2 are also simultaneously activated, allowing control of external relays and/or X-10 devices connected to the control panel.

## TYPICAL APPLICATIONS

Typical Gemini control panel application controlling 2 Garage doors and X-10 devices and appliances through the 2WAY-UNIVKF Keyfob.



Typical Ademco control panel application controlling 1 Garage door and 2 appliances through the 2WAY-UNIVKF Keyfob.



**WI1024B 2WAY-UNIVKF Installation Instructions**

## STEP 1 - WIRING FOR ARM / DISARM AND PANIC

Universal operation requires the use of control panel zones to provide Arm / Disarm and Panic operation. One zone must be programmed as a keyswitch arm zone which will process a 2 second violation as an Arm / Disarm command. The other zone must be programmed as a 24 hour panic zone, which will process a 2 second violation as a panic alarm. The wiring instructions below include wiring schemes for control panels which support zone doubling, such as the NAPCO Express series.

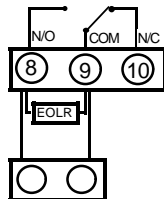
### Wiring for Arm / Disarm

Program a zone on the control panel for "Keyswitch Arm"

- When [ON/OFF] is pressed, the Arm/Disarm relay will change state (from normally closed to normally open) for 2 seconds and then restore, causing the control panel to arm or disarm.

#### EOLR PANEL

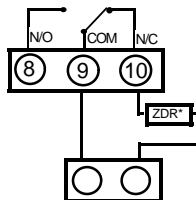
Typical Keyswitch wiring  
for a zone using  
End of Line resistors



Zone programmed for  
Keyswitch Arm

#### ZONE DOUBLED PANEL

Typical Keyswitch wiring  
for a "zone doubled" zone



Zone programmed for  
Keyswitch Arm

\* ZDR = Zone Doubling Resistor

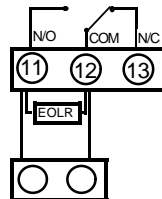
### Wiring for Panic

Program a zone on the control panel as a 24 Hour Panic Zone.

- When [PANIC] is pressed, the Panic relay will change state (from normally closed to normally open) for 2 seconds and then restore, causing an alarm on the the control panel Panic Zone.

#### EOLR PANEL

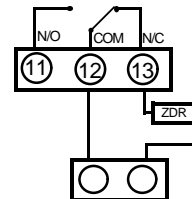
Typical Panic wiring  
for a zone using  
End of Line resistors



Zone programmed for  
24 hour panic

#### ZONE DOUBLED PANEL

Typical Panic wiring  
for a "zone doubled" zone



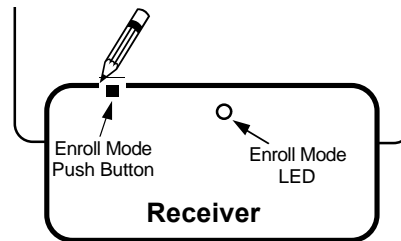
Zone programmed for  
24 hour panic

\* ZDR = Zone Doubling Resistor

## STEP 2 - ENROLLING KEYFOBS

### Enrolling and Removing KeyFobs

Each KeyFob used in the system must be enrolled into the receiver using the following procedure:



- 1 Use a pen or pencil to depress and hold the recessed Enroll Mode Push Button on the top of the receiver. → Entered Enroll Mode - The Enroll Mode LED will continue to flash.  
Release when the Enroll Mode LED begins to flash.
  - 2 Press the \* button on KeyFob 1. → The KeyFob will sound a confirmation beep.
  - 3 Press the \* button on KeyFob 2 (if more than one). → The KeyFob will sound a confirmation beep.
- ... Repeat for each KeyFob to be programmed into system.
- Hold Down Enroll Mode Push Button or KeyFob **ON/OFF**. → Exit Enroll Mode - the Enroll Mode LED will go out.

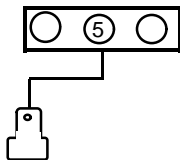
**To remove a lost KeyFob from the system:** Enter and then exit the Keyfob Enroll Mode. (Hold down Enroll Mode Push Button until Enroll Mode LED flashes, release and then hold down again to exit Enroll Mode). All keyfobs will be deleted from system.

## STEP 3 - WIRING FOR ARM & ALARM SENSE

### Wiring for Arm Sense

In Universal Mode, the receiver requires an Armed output from the control panel in order to pass the system status to the KeyFob. It may be configured for either a positive sense or negative sense.

Wiring to a control panel with an Armed output which goes **negative** upon arming.

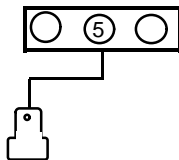


Remove Jumper from Config Pin A



A

Wiring to a control panel with an Armed output which goes **positive** upon arming.



Install Jumper on Config Pin A



A

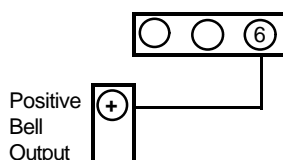
Negative = less than 3 V DC  
Positive = greater than 7 V DC

### Wiring for Alarm Sense

In Universal Mode, the receiver requires an Alarm output from the control panel in order to pass the correct status to the KeyFob. Typical connection will be to the bell output of the control panel. It will automatically display a siren icon for a steady input and a fire icon for a pulsing or temporal fire output.

The Alarm Sense input may be configured for either a positive or negative output.

Wiring to a control panel with an Alarm output which goes **positive** upon alarm.

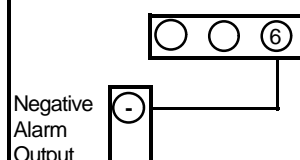


Remove Jumper from Config Pin B



B

Wiring to a control panel with an Alarm output which goes **negative** upon alarm.



Install Jumper on Config Pin B



B

Negative = less than 3 V DC  
Positive = greater than 7 V DC

## Wiring for Stay Mode

### Wiring for Stay Mode

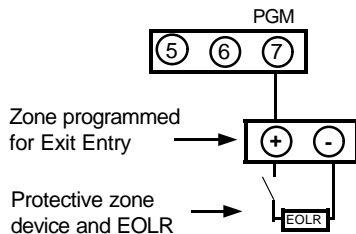
When installed on a control panel which provides “Automatic Interior Bypass”, the system can be armed in either the AWAY or STAY mode through the KeyFob. A system which provides Automatic Interior Bypass controls the Interior protection by automatically bypassing the motion zones if the system is armed and the exit/entry door is not opened. Program the control panel for “Automatic Interior Bypass”, or for “Home Away with Delay” (for the NAPCO Express Series stay mode). Each time the system is armed by a press of KeyFob button **[ON/OFF]**, the system will arm in the AWAY mode, providing complete protection. If the KeyFob button **[ON/OFF]** is held down for 2 seconds, the system will arm in the in the STAY mode, providing perimeter protection only.

Choose the appropriate wiring scheme for your control panel.

- When KeyFob button **[ON/OFF]** is pressed, the PGM terminal of the receiver will cause a violation of the exit entry zone, which will arm the system in the AWAY mode.
- If KeyFob button **[ON/OFF]** is held down for 2 seconds, the system will arm without the PGM violation of the E/E zone, which will arm the system in the STAY mode.

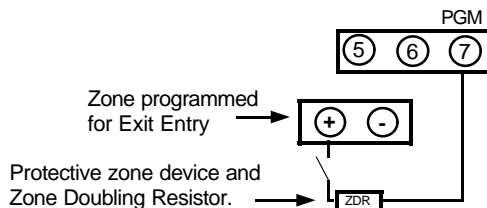
#### EOLR PANEL

Typical STAY mode wiring for a control panel using End of Line resistors



#### ZONE DOUBLED PANEL

Typical STAY mode wiring for a control panel using Zone Doubling



For the NAPCO Express Series and GEM-P400/P800 controls:

- Program the interior zones for for home away with delay and wire as shown.
- Install jumper J2 to invert PGM operation

Install Jumper  
across Config  
Pins J2





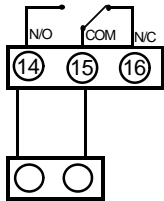
## GARAGE DOOR CONTROL

### Wiring for Garage Door Control

In Universal operation, the 2WAY-UNIVKF may be used to control a garage door opener, or any other access control device which requires a momentary closure for activation. The typical installation will require that the N/O and COM terminals of Relay 3 be wired across the wall mounted push-button switch for the garage door control as shown in the diagram below.

- Pressing the \* button will provide a 2 second short across these terminals, prompting the garage door opener to activate.

Typical wiring for a controlling a garage door opener from KeyFob.



Garage door opener wall mounted push-button switch, or normally open garage door opener input.

### Changing the KeyFob battery

- 1 Open battery compartment on back of Keyfob.



- 2 Remove old battery and replace with new.



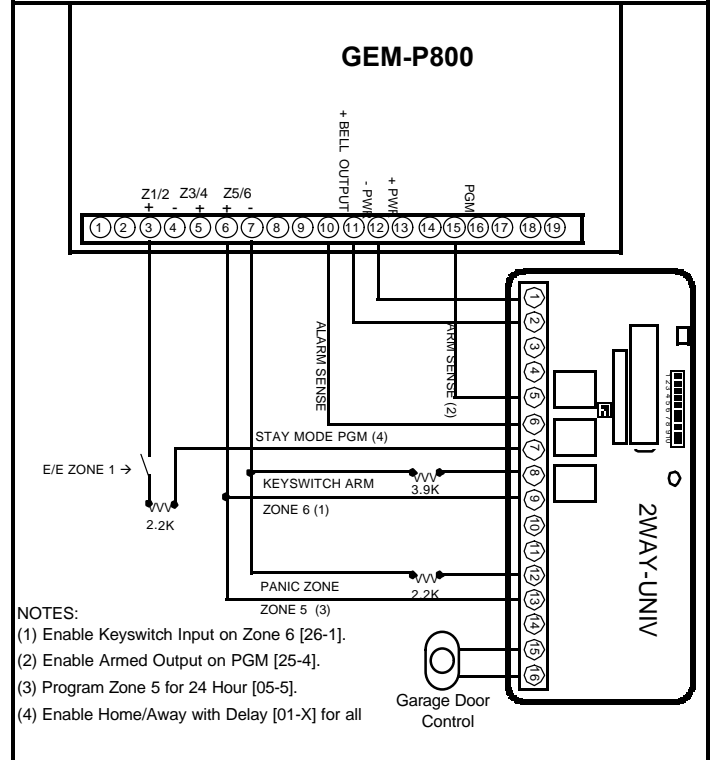
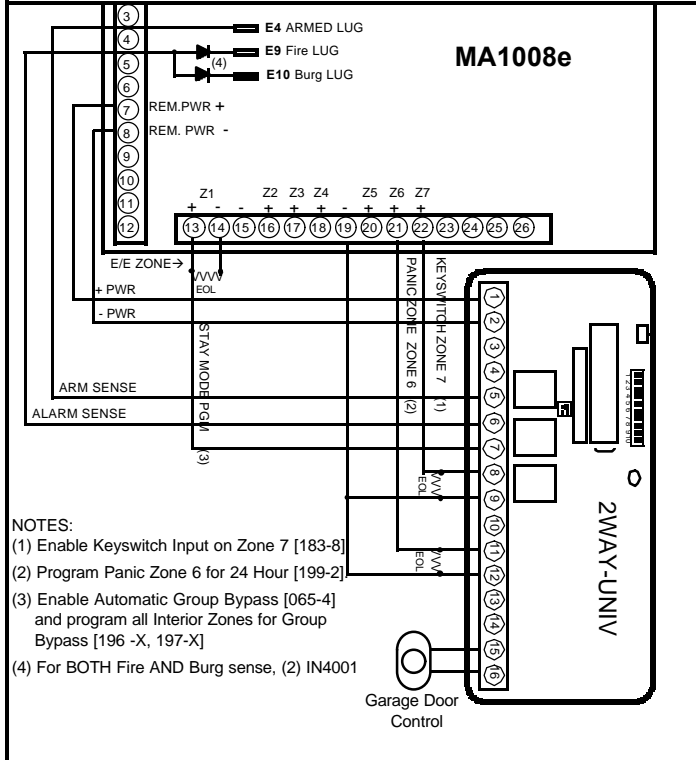
- 3 Replace battery compartment cover

**Use only AAA 1.5 Volt alkaline battery.**

Note: There is no need to re-enroll the KeyFobs after a battery change.

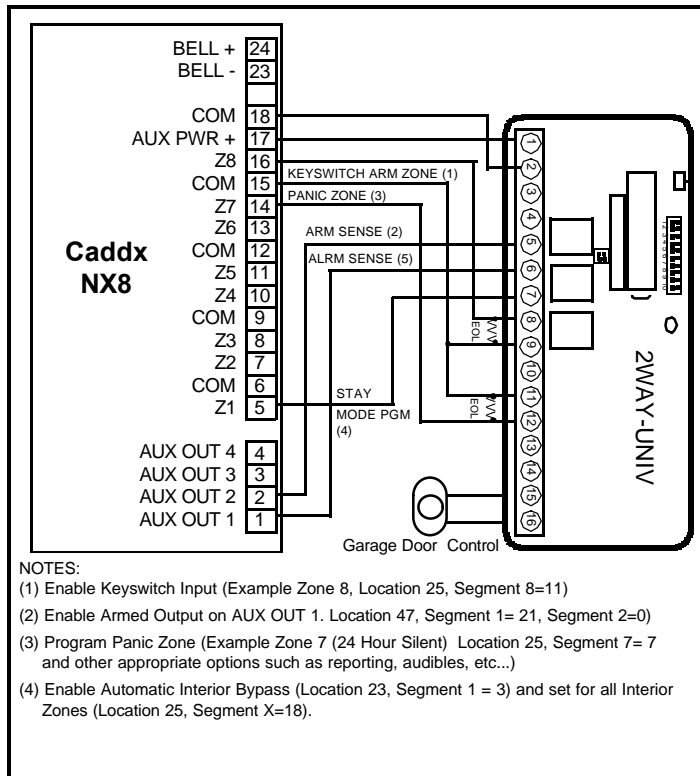
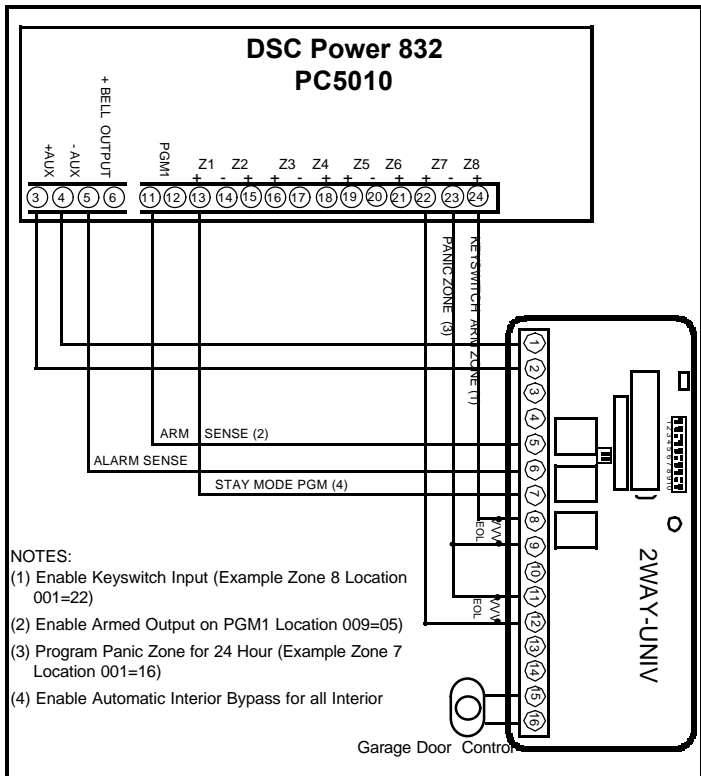
## TYPICAL APPLICATIONS

Typical Universal Mode applications with EOLR Control Panel (MA1008e) and Zone Doubled Control Panel (GEM-P800) using Arm and Alarm sense with Stay Mode and Garage Door control.



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Typical Universal Mode applications with EOLR Control Panels using Arm and Alarm sense with Stay Mode and Garage Door control.



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Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period.

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

**Warning:** Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.



FCC ID: AD82WAYUNIVKF

This device complies with part 15 of the FCC Rules. Operation is subject to the following:

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