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General Description

The 2WAY-UNIVKF is a miniature remote control device which provides wireless control of the security system and confirms system status visually and audibly with an LCD ICON display and mini sounder. It is keypad bus compatible with the NAPCO Gemini Series control panels as well as the Ademco Vista 10, 20, 40 & 50 series. It is also universally compatible with any control panel which offers keyswitch arming with an armed status output.

Keypad Bus compatible control panels:

NAPCO: **GEM-P816** GEM-P1632 GEM-P3200 GEM-P9600 Ademco: Vista 10 Vista 20 Vista 40 Vista 50

For additonal 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: 433.92 Mhz
- Operating Range: 750 feet (open air)

NAPCO Security Systems, Inc. 333 Bayview Avenue, Amityville, New York 11701 For Sales and Repairs, call Toll Free: (800) 645-9445

For Technical Assistance, Contact the NAPCO Toll Free Helpline 🆀 (800) 645-9440

SYSTEM OVERVIEW

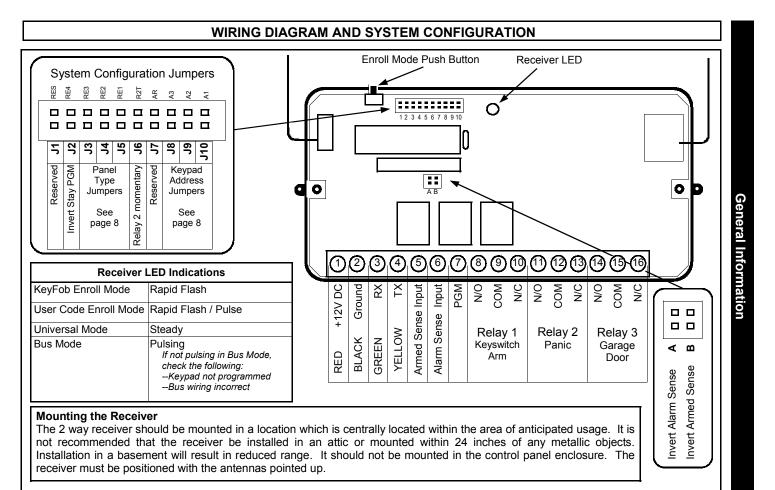
The 2WAY-UNIVKF is compatible with virtually any control panel, either through keypad bus operation or universal mode operation. When used on a panel on which it is bus-compatible, full functionality is realized, including lighting, appliance and X10 control. When used in the Universal Mode, functionality 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, etc.

This manual is divided into 3 sections which are marked on the outer border of each page - **General Information** (pages 2-7), **Bus Mode Operation** (pages 8-16) and **Universal Operation** (pages 17-23). After reviewing the General Information section for an overview of the system, refer to the section which applies to the type of installation at hand, Bus or Universal.

Each section includes 3 mandatory steps (marked at the top of the page) which must be completed to achieve an operational system. All other steps are optional.

Use these tables to determine the Keyfob functionality **Bus Mode Features** you can expect from the control panel's features. **Kevfob Commands** ▼ Årm / Disarm Stav Mode Arming Arming with Instant Protection **Universal Mode Features** Panic Garage Door Control Kevfob Commands **Required Control Panel Feature** Appliance Control 1 / + Relay Group 1 Control Keyswitch arm zone or input • Arm / Disarm Garage 2 or Appliance Control 2/ † Relay Group 2 Control (Momentary) Automatic Interior Bypass Stay Mode Arming Keyfob Indicators 24 hour panic zone • Panic Armed Standard Armed Stay Garage Door Control Armed Instant Armed / Zones Bypassed **Keyfob Indicators Required Control Panel Feature** Disarmed / System Ready Armed output or lug (high or low) • Armed / Disarmed Disarmed / Zones Faulted Automatic Interior Bypass Alarm Armed Stay Alarm Memory Steady bell output (high or low) • Alarm Fire Alarm Steady bell output (high or low) Alarm Memory System Trouble Pulsing Bell output (high or low) † NAPCO GEM-P3200 & P9600 only • Fire Alarm

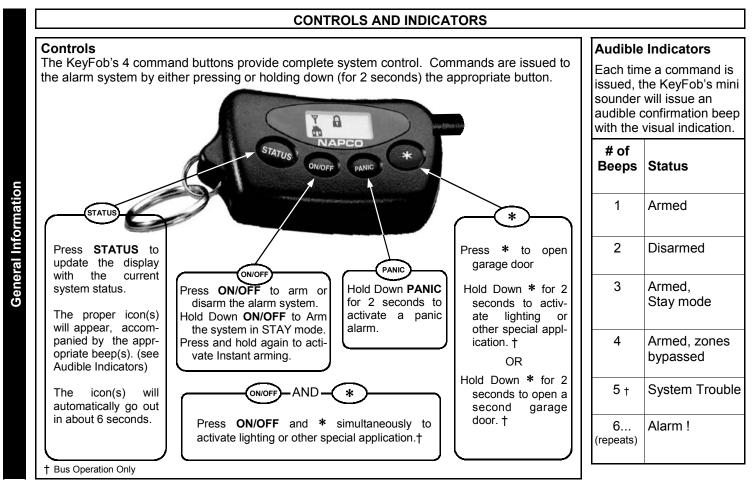
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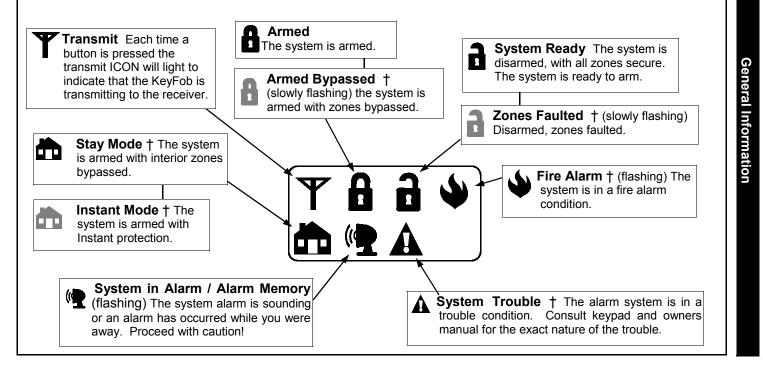
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CONTROLS AND INDICATORS

Visual LCD Indicators

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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 performed. 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

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, 20, 40 & 50. **Note:** For Bus Operation, DO NOT connect any wires to terminals 5 & 6.

Programming

The Gemini and Ademco Vista 40 & 50 control panels 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.

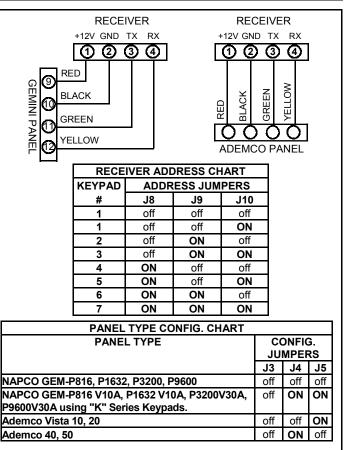
If KeyFob panic is desired, Keypad Panic should be enabled in the control panel program. For the Ademco Vista 10 and 20, zone 95 must be programmed for 24 Hr Audible or 24 Hr Silent. For the Vista 40 & 50 zone 99 must be programmed for 24 Hr Audible or 24 Hr Silent.

Configuring the Receiver Address

For the NAPCO Gemini and Vista 40 & 50 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 chart to determine the correct jumper settings for control panel being used.



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STEP 2 - ENROLLING KEYFOBS--With NAPCO "Classic" Keypads

Enrolling and Removing KeyFobs Each KeyFob 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. Arm system from any keypad 1 Disarm system from any keypad 2 → The Enroll Mode LED will flash rapidly. Press **1114** on keypad 3 The keypad will give error beeps - ignore. Press the * button on KeyFob 1 -----The KeyFob will sound a single confirmation beep. 4 Repeat for each KeyFob to be enrolled Exit Enroll Mode - the Enroll Mode LED will start to slowly pulse. Press RESET on Keypad The KeyFob will give a series of beeps and the unlock icon will display. 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 18 for more information. • To Remove a lost KeyFob from the system: Enter and then exit the Keyfob Enroll Mode (Arm and disarm the and then press **RESET**). All keyfobs will be deleted from the system. system, enter 1114 NAPCO "Classic" Keypads NAPCO "K Series" Keypads For NAPCO "K Series" Keypads, see pages 10 and 13. GEM-RP1CAe2. GEM-RP2ASe2. GEM-K1CA, GEM-K2AS, For Ademco Keypads, see pages 11 and 14 **GEM-RP3DGTL** GEM-K3DGTL, GEM-K4RF

Bus Mode Operation

STEP 2 - ENROLLING KEYFOBS--With NAPCO "K Series" Keypads

Enrolling and Removing KeyFobs

Each KeyFob 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** Press **1114** on keypad 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 single confirmation beep.
- Repeat for each KeyFob to be enrolled
 - Press RESET on Keypad Exit Enroll Mode - the Enroll Mode LED will slowly pulse. The KeyFob will give a series of beeps and the unlock icon will display.
- 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 18 for more information.
- To Remove a lost KeyFob from the system: Enter and then exit the Keyfob Enroll Mode (Arm and disarm the system, enter 1114 and then press [RESET]). All keyfobs will be deleted from the system.

For NAPCO "Classic" Keypads, see pages 9 and 12. For Ademco Keypads, see pages 11 and 14

NAPCO "Classic" Keypads	NAPCO "K Series" Keypads	
GEM-RP1CAe2, GEM-RP2ASe2,	GEM-K1CA, GEM-K2AS,	
GEM-RP3DGTL	GEM-K3DGTL, GEM-K4RF	

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STEP 2 - ENROLLING KEYFOBS--With ADEMCO Panels/Keypads

Enrolling and Removing KeyFobs

Each KeyFob 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 Press 1114, then [AWAY] on keypad → The Enroll Mode LED will flash rapidly. *The keypad may sound error beeps** - *ignore.*
- 4 Press the ∗ button on KeyFob 1 The KeyFob will sound a single confirmation beep.
- Repeat for each KeyFob to be enrolled

Press RESET on Keypad Exit Enroll Mode - the Enroll Mode LED will slowly pulse. The KeyFob will give a series of beeps and the unlock icon will display.

- 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 18 for more information.
- To Remove a lost KeyFob from the system: Enter and then exit the Keyfob Enroll Mode (Arm and disarm the system, enter 1114 [AWAY] and then press [#]). All keyfobs will be deleted from the system.

For NAPCO "Classic" Keypads, see pages 9 and 12. For NAPCO "K Series" Keypads, see pages 10 and 13.

*Some Vista models will beep, others will not. Ignore all beeps.

STEP 3 - ENROLLING USER CODES--With NAPCO "Classic" Keypads

Enrolling User Codes into the 2 Way receiver

After all KeyFobs have been enrolled as described in step 2, a 4-digit User Code must be enrolled into the receiver for each KeyFob. *If you have enrolled 3 KeyFobs, you must program into the control panel (3) 4-digit User Codes and then use the following procedure to enroll these User Codes into the receiver.* The receiver will hold these User Codes in its non-volatile memory and use them to arm/ disarm the system upon command from the KeyFob. This User Code Enrollment feature allows the control panel to uniquely identify each KeyFob used to arm and disarm the system, log KeyFob opening/closing activity in its event buffer and 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 (using any User Code)
- Disarm system from any keypad Enroll Mode LED will flash / pulse 3 Press 1113 The keypad will give error beeps - ignore. System will Arm 4 Enter 4 digit User Code for KeyFob # 1, press System will Disarm Reenter the *4 digit User Code* for KeyFob # 1, 5 Observe automatic reciever test of user code. System will test User 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 slowly pulse Note: If these user codes are changed in control panel programming, the new user codes must be re-enrolled into the receiver. NAPCO "Classic" Keypads NAPCO "K Series" Keypads GEM-RP1CAe2, GEM-GEM-K1CA, GEM-K2AS, For NAPCO "K Series" Keypads, see pages 10 and 13. RP2ASe2, GEM-RP3DGTL GEM-K3DGTL, GEM-K4RF For Ademco Keypads, see pages 11 and 14

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Bus Mode Operation

STEP 3 - ENROLLING USER CODES--With NAPCO "K Series" Keypads

Enrolling User Codes into the 2 Way receiver

After all KeyFobs have been enrolled as described in step 2, a 4-digit User Code must be enrolled into the receiver for each KeyFob. If you have enrolled 3 KeyFobs, you must program into the control panel (3) 4-digit User Codes and then use the following procedure to enroll these User Codes into the receiver. The receiver will hold these User Codes in its non-volatile memory and use them to arm/ disarm the system upon command from the KeyFob. This User Code Enrollment feature allows the control panel to uniquely identify each KeyFob used to arm and disarm the system, log KeyFob opening/closing activity in its event buffer and 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 (using any User Code)
- **2** Disarm system from any keypad
- Enroll Mode LED will flash / pulse Press 1113 3 The keypad will give error beeps - ignore. Enter 4 digit User Code for KeyFob # 1, press AWAY System will Arm 4 System will Disarm Reenter the *4 digit User Code* for KeyFob # 1, Observe automatic reciever test of user code. -System will test User Code by quickly Arming 6 and Disarming Repeat steps 4 & 5 for each KeyFob to be enrolled. Press RESET on Keypad Exit Enroll Mode-the Enroll Mode LED will slowly pulse **Note:** If these user codes are changed in control panel programming,

the new user codes must be re-enrolled into the receiver.

For NAPCO "Classic" Keypads, see pages 9 and 12. For Ademco Keypads, see pages 11 and 14

NAPCO "Classic" KeypadsNAPCO "K Series" KeypadsGEM-RP1CAe2, GEM-GEM-K1CA, GEM-K2AS,RP2ASe2, GEM-RP3DGTLGEM-K3DGTL, GEM-K4RF

Bus Mode Operation

STEP 3 - ENROLLING USER CODES--With ADEMCO Panels/Keypads

Enrolling User Codes into the 2 Way receiver

After all KeyFobs have been enrolled as described in step 2, a 4-digit User Code must be enrolled into the receiver for each KeyFob. If you have enrolled 3 KeyFobs, you must program into the control panel (3) 4-digit User Codes and then use the following procedure to enroll these User Codes into the receiver. The receiver will hold these User Codes in its non-volatile memory and use them to arm/ disarm the system upon command from the KeyFob.

This User Code Enrollment feature allows the control panel to uniquely identify each KeyFob used to arm and disarm the system, log KeyFob opening/closing activity in its event buffer and 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 (using any User Code)
- 2 Disarm system from any keypad
- 3 Press 1113 [AWAY] → Enroll Mode LED will flash / pulse The keypad may sound error beeps* - ignore.
- 4 Enter 4 digit User Code for KeyFob # 1, press [AWAY] → System will Arm
- 5 Reenter the 4 digit User Code for KeyFob # 1, [OFF] → System will Disarm
 - 6 Observe automatic reciever test of user code. → System will test User Code by quickly Arming and Disarming
 - Repeat steps 4 & 5 for each KeyFob to be enrolled.
 - Press [#] on Keypad
 Exit Enroll Mode-the Enroll Mode LED will slowly pulse

Note: If these user codes are changed in control panel programming, the new user codes must be re-enrolled into the receiver.

For NAPCO "Classic" Keypads, see pages 9 and 12. For NAPCO "K Series" Keypads, see pages 10 and 13.

*Some Vista models will beep, others will not. Ignore all beeps.

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Operation

Mode

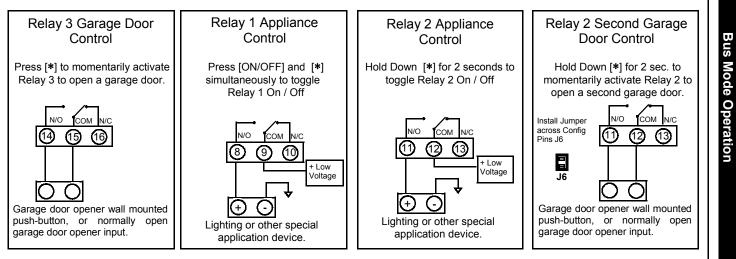
Bus

GARAGE DOOR CONTROL / SPECIAL APPLICATIONS

When installed on the bus of a Gemini or Ademco control panel, 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.

- Press [ON/OFF] and [*] simultaneously to toggle Relay 1 On / Off
- Hold Down [*] for 2 seconds to toggle Relay 2 On / Off
 OR

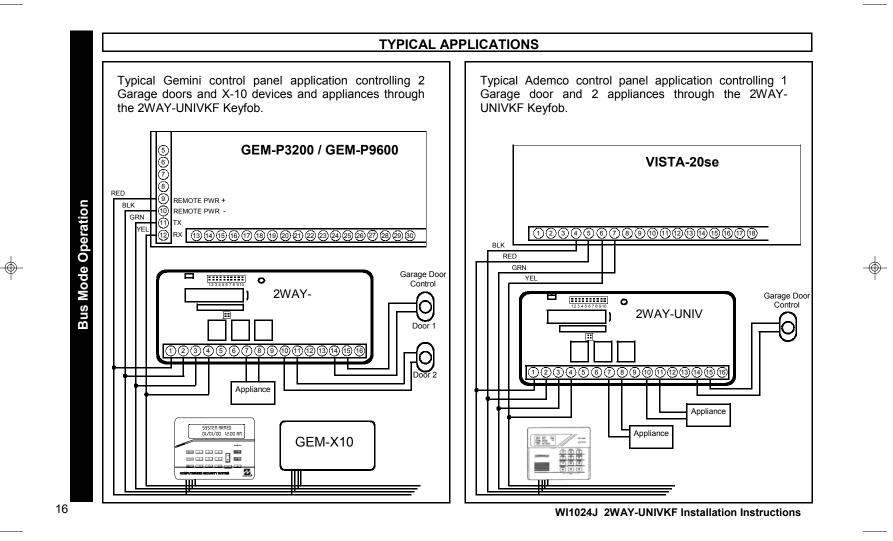
• Hold Down [*] for 2 sec. to momentarily activate Relay 2 to open a second garage door. (Install Jumper 6 - Relay 2 momentary).



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 (RB3008) relays and/or X-10 devices connected to the control panel.

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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

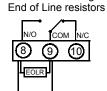
Program a zone on the control panel for "Keyswitch Arm"

• 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.

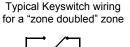
EOLR PANEL

 $^{\textcircled}$

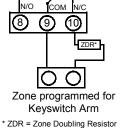
Typical Keyswitch wiring for a zone using







ZONE DOUBLED PANEL



Wiring for Panic

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

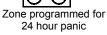
• When [PANIC] is pressed, the Panic relay will change state (from normally closed to normally open) for 2 seconds and then restore, causing an alarm on the the control panel Panic Zone.

EOLR PANEL

ZONE DOUBLED PANEL

Typical Panic wiring for a zone using End of Line resistors





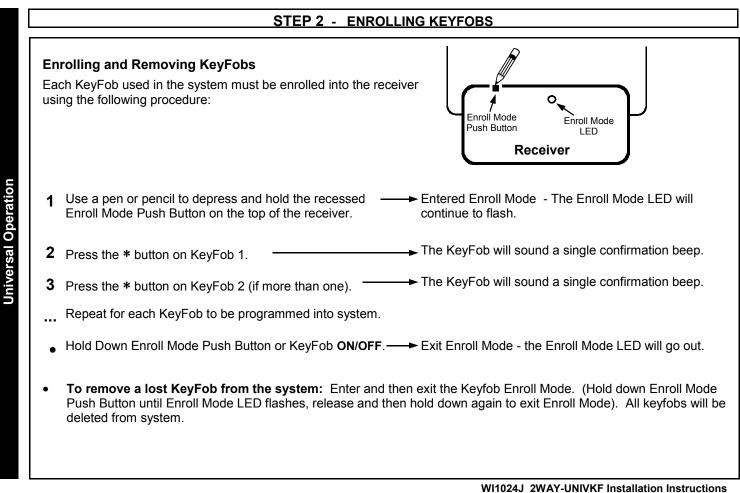
Typical Panic wiring for a "zone doubled" zone



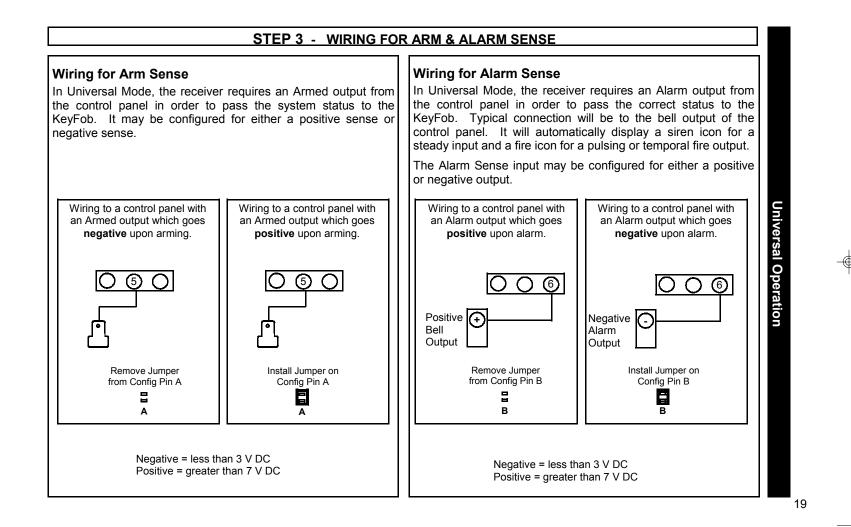
Zone programmed for 24 hour panic

* ZDR = Zone Doubling Resistor

Universal Operation



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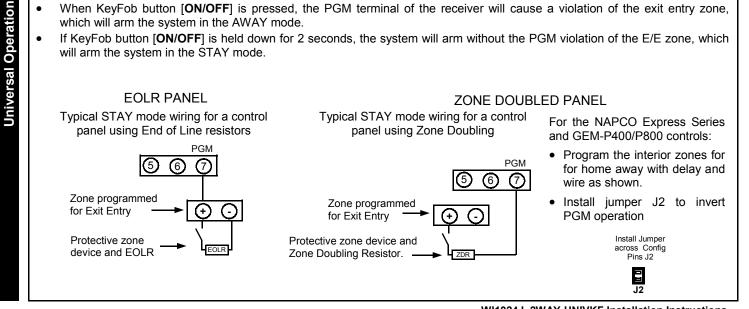
Wiring for Stay Mode

Wiring for Stay Mode

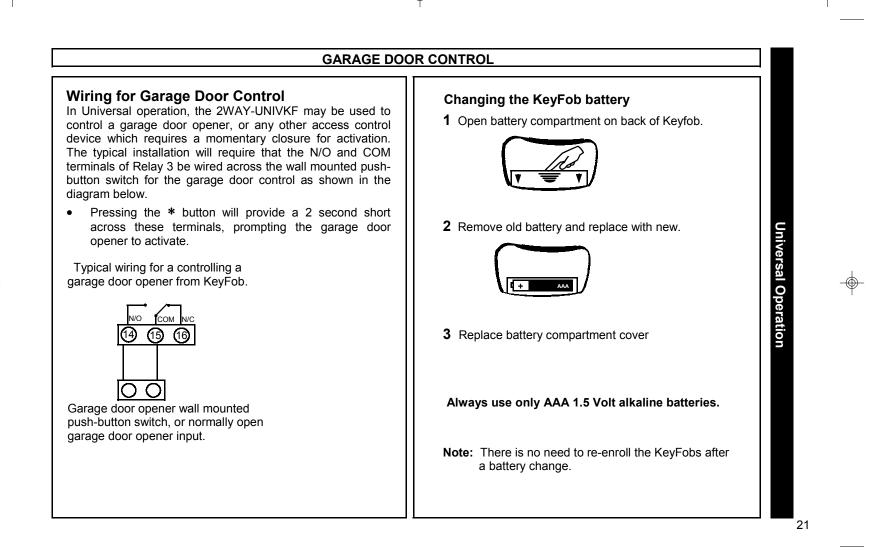
When installed on a control panel which provides "Automatic Interior Bypass", the system can be armed in either the AWAY or STAY mode through the KeyFob. A system which provides "Automatic Interior Bypass" controls the Interior protection by automatically bypassing the Interior Zones if the system is 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.

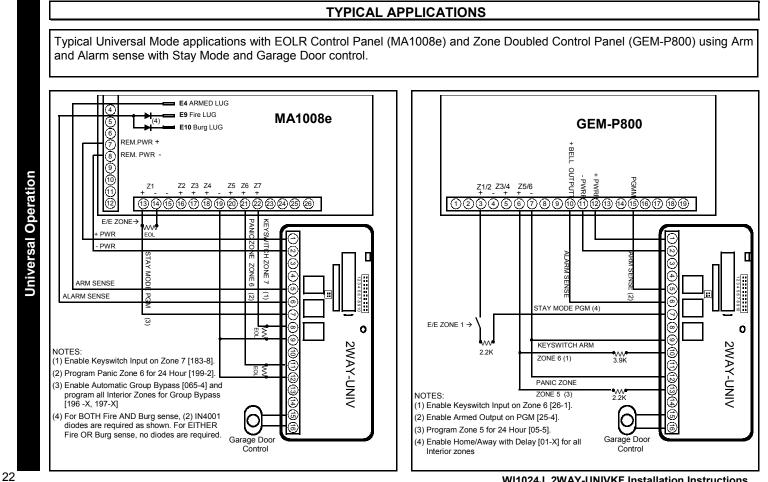
Choose the appropriate wiring scheme for your control panel.

- 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.



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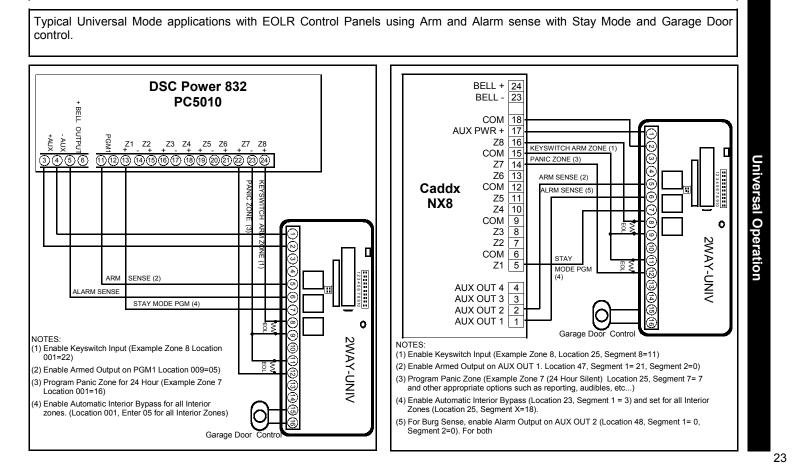
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TYPICAL APPLICATIONS



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NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for thirty-six months following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

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.

IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly canceled. NAPCO neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or

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otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

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:

 This device may not cause harmful interference.
 This device must accept any interference received, including interference that may cause undesired operation.