

**Honeywell**

# **ADEMCO 4110XM**

## **SECURITY SYSTEM**

### **User Guide**

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**N5100V5 4/99 Rev. C**

## **IMPORTANT!**

### **PROPER INTRUSION PROTECTION**

For proper intrusion coverage, sensors should be located at *every possible point of entry* to a home or commercial premises. This would include any skylights that may be present, and the upper windows in a multi-level building.

In addition, we recommend that radio backup be used in a security system so that alarm signals can still be sent to the Central Monitoring Station in the event that the telephone lines are out of order (alarm signals are normally sent over the phone lines).

### **EARLY WARNING FIRE DETECTION**

Early warning fire detection is important in a home. Smoke and heat detectors have played a key role in reducing fire deaths in the United States. With regard to the number and placement of smoke/heat detectors, we subscribe to the recommendations contained in the National Fire Protection Association's National Fire Alarm Code (NFPA 72). These recommendations can be found in the "National Fire Protection Association Recommendations" section of this manual.

## **SYSTEM COMPATIBILITY NOTICE**

Your Honeywell security system is designed for use with devices manufactured or approved by Honeywell for use with your security system. Your Honeywell security system is not designed for use with any device that may be attached to your security system's keypad or other communicating bus if Honeywell has not approved such device for use with your security system. Use of any such unauthorized device may cause damage or compromise the performance of your security system and affect the validity of your Honeywell limited warranty. When you purchase devices that have been manufactured or approved by Honeywell, you acquire the assurance that these devices have been thoroughly tested to ensure optimum performance when used with your Honeywell security system.

## **About This Manual**

This manual is a step-by-step guide that will acquaint you with the system's features and benefits. It defines the components and their functions, describes their operation, and provides clear step-by-step instructions for normal and emergency procedures. Keep this manual in a convenient place so that you can refer to it as necessary.

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*Congratulations on your ownership of a Honeywell Security System. You have made a wise decision in choosing it, for it represents the latest in security protection technology today, including microcomputer technology to monitor all system status. Honeywell is the world's largest manufacturer of security systems and millions of premises are protected by Honeywell systems.*

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# System Overview

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## General

This system offers you three forms of protection: burglary, fire and emergency. Your system may consist of at least one keypad which provides full control of system operation, various sensors such as motion detectors and door and window sensing devices, plus a selected number of strategically placed smoke or combustion detectors designed to provide early warning in case of fire. Your system may also have been programmed to automatically transmit alarm or status messages over the phone lines to a central alarm monitoring station.

## Keypads

All system functions are controlled by your keypad(s). The keypads feature a telephone style (digital) keypad and a Liquid Crystal Display (LCD) which shows the nature and location of all occurrences. Their built-in sounder will sound during alarm and trouble conditions.

For additional information, see the following section: *ABOUT THE KEYPAD*.

## Zones

Your system's sensing devices have been assigned to various zones. For example, the sensing device on your Entry/Exit door may have been assigned to zone 01, sensing devices on windows in the master bedroom to zone 02, and so on. These zone numbers will appear on the display when an alarm or trouble condition occurs.

## Alarms

When an alarm occurs, both the keypad and external sounders will sound, and a message at the keypad will identify the zone(s) causing the alarm. In addition, if your system is connected to a central monitoring station, an alarm message will be sent. To stop the alarm sounding, you simply disarm the system.

## **System Overview (cont'd)**

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### **Fire Protection**

The fire protection portion of your security system (if used) is always on and will sound an alarm if a fire condition is detected. Refer to the *FIRE ALARM SYSTEM* section for important information concerning fire protection, smoke detectors and planning emergency exit routes from your premises.

### **Burglary Protection**

The burglary protection portion of your system must be turned on or "armed" before it will sense burglary alarm conditions and sound an alarm. Your system can be armed in one of four modes: STAY, AWAY, INSTANT and MAXIMUM. Refer to the *ARMING THE SYSTEM* sections for instructions in using these modes of operation. Your system also provides a CHIME mode for alerting you to the opening and closing of doors and windows while the system is disarmed.

### **Memory of Alarm**

When an alarm or trouble condition occurs, the keypad displays the number(s) of the zone(s) that caused the problem, and displays the type of alarm or trouble (ex. FIRE, ALARM, CHECK). The display remains until it is cleared by entering the OFF sequence (security code + **OFF** key) twice.

### **Pager Notification**

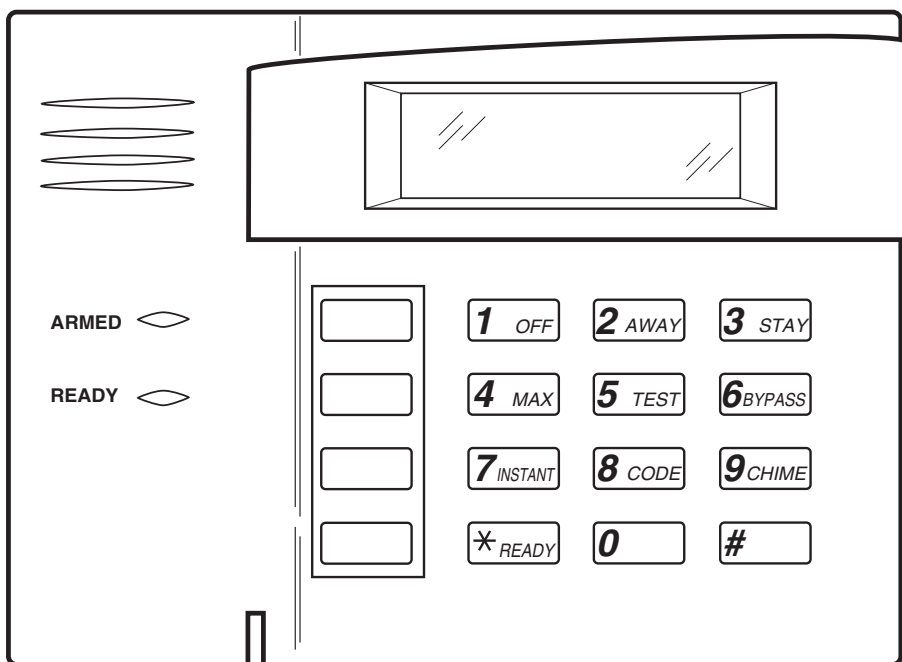
If you have chosen to be notified of alarms or other system conditions by pager, the following codes will be sent to your pager by the control:

1811=Trouble	1911=Alarm
1001=Open	1002=Close

# About the Keypad

## Keypad Styles

The 6150 is a Fixed-Word keypad. The keys on the keypads are located behind a flip-down door which can be removed, if desired.



SHOWN WITH DOOR REMOVED

## About the Keypad (cont'd)

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### SUMMARY OF SYSTEM STATUS DISPLAYS

<b>AWAY</b>	All burglary zones, interior & perimeter, are armed.
<b>STAY</b>	Perimeter burglary zones, such as windows and doors are armed.
<b>INSTANT</b>	Perimeter burglary zones armed and entry delay is turned off.
<b>BYPASS</b>	One or more burglary protection zones have been bypassed.
<b>NOT READY</b>	Appears when burglary portion of the system is not ready for arming (due to one or more open protection zones).
<b>READY</b>	The burglary portion of the system is ready to be armed.
<b>NO AC</b>	Appears when AC power has been cut off. System is operating on backup battery power.
<b>AC</b>	Appears when AC power is present.
<b>CHIME</b>	Appears when the CHIME feature is ON.
<b>BAT</b>	Low system battery.
<b>ALARM</b>	Appears when an intrusion has been detected and the system is armed (also appears during a fire alarm). Accompanied by the ID # of the protection zone in alarm.
<b>CHECK</b>	Appears when a malfunction is discovered in the system at any time or if a fault is detected in a FIRE zone at any time or in a DAY (Trouble)/NIGHT (Alarm) burglary zone during a disarmed period. Accompanied by a display of zone number in trouble.
<b>FIRE</b>	Appears when a fire alarm is present. Accompanied by a display of the zone in alarm.



style B\_disp.

### FIXED-WORD KEYPAD DISPLAY



# Keypad Functions

## SUMMARY OF KEYPAD FUNCTIONS

<p>1. <b>DISPLAY WINDOW:</b> Displays protection zone ID and system status messages.</p> <p>2. <b>1 OFF KEY:</b> Disarms burglary portion of the system, silences alarms and audible trouble indicators, and clears visual display after problem's correction.</p> <p>3. <b>2 AWAY KEY:</b> Arms the entire burglary system, perimeter and interior.</p> <p>4. <b>3 STAY KEY:</b> Arms perimeter portion of burglary system only. Interior protection is not armed, which allows movement within premises without causing alarm.</p> <p>5. <b>4 MAXIMUM KEY:</b> Arms in manner similar to AWAY mode, but without the entry delay feature, thus providing maximum protection. An alarm will occur immediately upon opening any protection point, including the entry/exit door.</p> <p>6. <b>5 TEST KEY:</b> Tests the system and alarm sounder if disarmed. Refer to <i>TESTING THE SYSTEM</i> section for test procedures.</p> <p>7. <b>6 BYPASS KEY:</b> Removes individual protection zones from being monitored by the system.</p>	<p>8. <b>7 INSTANT KEY:</b> Arms in manner similar to STAY mode, but without the entry delay feature. Entering via the entry/exit door will cause an instant alarm.</p> <p>9. <b>8 CODE KEY:</b> Used to assign additional user codes for other users of the system.</p> <p>10. <b>9 CHIME KEY:</b> Turns CHIME mode on and off. When on, the opening of windows or doors while the system is disarmed will sound 3 beeps at the keypad(s).</p> <p>11. <b>* READY KEY:</b> Displays all open protection zones.</p> <p>12. <b># KEY:</b> "Quick Arm" key permits ARMING of the system without use of a security code (if so programmed).</p> <p>13. <b>KEYS 0-9†:</b> Used to enter your security code(s).</p> <p>14. <b>READY INDICATOR: (GREEN)</b> Lit when the system is ready to be armed (no faults present). While the system is disarmed, this indicator will go on and off as protection zones are closed and opened.</p> <p><b>Note:</b> On some keypads a <b>POWER INDICATOR (GREEN)</b> is lit when AC power is present. If the indicator is off, the system may still be operating, but on its backup battery power. See Power Failure in TROUBLE CONDITIONS section.</p>
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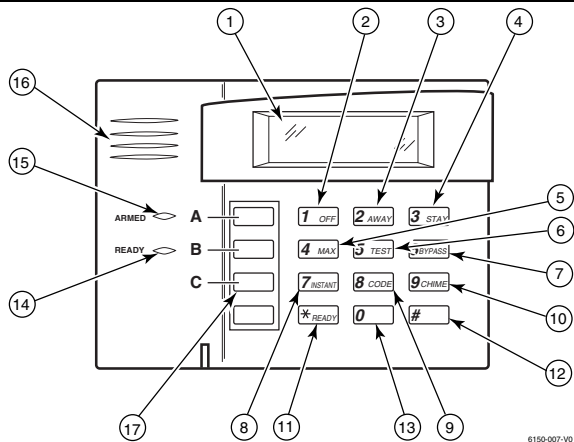
## Keypad Functions (cont'd)

15. **ARMED INDICATOR:** (RED) Lit when the system has been armed (STAY, AWAY, INSTANT or MAXIMUM).
16. **INTERNAL SOUNDER:** The built-in keypad sounder mimics the alarm sounder during alarms, and will also "beep" during certain system functions. (see *SUMMARY OF AUDIBLE/VISUAL NOTIFICATION*).
17. **EMERGENCY KEYS:**  
Individual keys **A**, **B**, and **C** (key D not used). On some keypads, these keys are not present, and the following key pairs may be available, instead, for emergency functions:

**\*** & **#** , **\*** & **1** , **#** & **3**

Some or all of these keys/pairs may be programmed for panic functions by your installer (see *PANIC KEYS* section).

**IMPORTANT!** When entering codes and commands, sequential key depressions must be made within 2 seconds of one another. If 2 seconds elapses without a key depression, the entry is aborted and must be repeated from its beginning.



†**Note:** Keys **1** through **9** each perform their associated companion functions (OFF, AWAY, STAY, etc.) when preceded by an entry of the security code (as described later).

# Security Codes

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## General

At the time of installation, your installer programmed a personal four-digit Master code, known only to you and yours. This code is used to perform most system functions, including arming and disarming of the system. As an additional safety feature, temporary user codes can be assigned (see next page) for use by those not having a need to know the Master code. Note that the Master code remains in effect even when other user codes are assigned.

## Duress Code

Ask your installer if "Duress" is active for your system. If so, check here:

This feature is intended for use when you are forced to disarm or arm the system under threat. When used, the system will act normally, but can silently notify the central station of your situation, if that service has been provided.

The Duress code is defined as User number 8.

**Important:** The Duress code is useful only when connected to a central station.

## Quick Arming

Ask your installer if "Quick Arming" is active for your system. If so, check here:

If your system supports "Quick Arming", the "#" key can be pressed in place of the security code when arming the system. The security code is *always* required, however, when disarming the system.

# Security Codes (cont'd)

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## Assigning, Changing, or Deleting User Codes

### 4-DIGIT USER CODES

It is recommended that obvious codes such as 1 1 1 1 or 1 2 3 4 not be assigned.

1. Enter your Master code and press the **CODE** key.
2. Enter single-digit user number ('2', '3', '4', '5', '6' or '7') for which a code is to be assigned, changed, or deleted.
3. *If assigning or changing a user's code*, enter the desired 4-digit code for use by that user number. The keypad will beep once.  
*If deleting a user's code*, perform steps 1 & 2 and stop. In a few moments the keypad will beep once, indicating that the existing code has been deleted.

To assign your **Duress** code, perform the following:

Enter your [Master code] + [8] + [8] + [desired 4-digit code]. The keypad will beep once.

The **Master** code can be changed by the main user of the system. To change it, perform the following:

Enter your [Master code] + [8] + [1] + [new Master code] + [new Master code] again. The keypad will beep once.

**Important:** Temporary users should not be shown how to use any system function they do not need to know (e.g., bypassing protection zones).

## ***Entry/Exit Delays***

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### **General Information**

Your system has preset time delays, known as exit delay and entry delay. When you arm your system, **exit delay** gives you time to leave through the entry/exit door without setting off an alarm. **Entry delay** gives you time to disarm the system when you re-enter through the entry/exit door. The system must be disarmed, however, before the entry delay period ends, or an alarm will occur. The keypad will beep slowly during the entry delay period, reminding you to disarm the system.

You can also arm the system with no entry delay at all by using either INSTANT or MAXIMUM arming modes. These modes can provide greater security while you are sleeping or while you are away for extended periods of time.

See your installer for your delay times and record them here:

**Exit Delay:**             seconds

**Entry Delay:**         seconds

# Checking for Open Zones

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## Using the READY Key

Before your system can be armed, all protected doors, windows and other protection zones must be closed or bypassed (see *BYPASSING PROTECTION ZONES* section), otherwise the keypad will display a "Not Ready" message, and if your keypad has a READY indicator light, it will not be lit. The **READY** key can be used to display all faulted zones, making it easier for you to secure any open zone.

To display faulted zones, simply press and release the **READY** key (do not enter code first). Secure or bypass the zones displayed before arming the system.

A "Ready" message will be displayed when all protection zones have been either closed or bypassed and the keypad's READY indicator light (if present) will be lit.

### TYPICAL DISPLAYS

#### WHEN NOT READY TO ARM



4110-002-V0

#### INDICATING FAULTED PROTECTION ZONE (AFTER PRESSING READY KEY)



4110-003-V0

#### INDICATING "READY TO ARM"



4110-004-V0

## Arming the System

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### Using the **3** STAY Key (Arms Perimeter Only, Entry Delay On)

Use this key when you are staying inside, but expect someone to use an entry/exit door later.

Before Arming close all doors and windows (see *CHECKING FOR OPEN ZONES*).

1. Enter your security code and press the **STAY** key.
2. The keypad will beep three times and will display the armed message. The red ARMED indicator will light.
3. The system will arm. An alarm will sound immediately if a protected perimeter window or non-entry/exit door is then opened, but you may otherwise move freely throughout the premises.

Later arrivals can enter through an entry/exit door without causing an alarm, but they must disarm the system within the entry delay period to avoid sounding an alarm.

#### TYPICAL DISPLAY

"ARMED STAY"



FIXED-WORD

## ***Arming the System (cont'd)***

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### **Using the 7 INSTANT Key (Arms Perimeter Only, Entry Delay Off)**

Use this key when you are staying inside, and do not expect anyone to use an entry/exit door.

Before Arming close all doors and windows (see *CHECKING FOR OPEN ZONES*).

1. Enter your security code and press the **INSTANT** key.
2. The keypad will beep three times and will display the armed message. The red **ARMED** indicator will light.
3. The system will arm. An alarm will sound immediately if any protected perimeter window or door is then opened, but you may otherwise move freely throughout the premises.

An alarm will sound immediately if anyone opens an entry/exit door.

#### **TYPICAL DISPLAY**





## ***Arming the System (cont'd)***

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### **Using the 2 AWAY Key (Arms Entire System, Entry Delay On)**

**Use this key when no one will be staying inside.**

Before Arming close all doors and windows (see *CHECKING FOR OPEN ZONES*).

1. Enter your security code and press the **AWAY** key.
2. The keypad will beep twice and will display the armed message. The red ARMED indicator will light.
3. You may leave through an entry/exit door during the exit delay period without causing an alarm.

After exit delay, the system arms and will sound an alarm if a protected window or non-entry/exit door is then opened, or if any movement is detected inside your premises.

You may reenter through an entry/exit door, but must disarm the system within the entry delay period to avoid an alarm.

### **TYPICAL DISPLAY**

"ARMED AWAY"



FIXED-WORD

## Arming the System (cont'd)

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### Using the **4** MAXIMUM Key (Arms Entire System, Entry Delay OFF)

Use this key when the premises will be vacant for extended periods of time such as vacations, etc, or when no one will be moving through protected areas.

Before Arming close all doors and windows (see *CHECKING FOR OPEN ZONES*).

1. Enter your security code and press the **MAX** key.
2. The keypad will beep twice and will display the armed message. The red ARMED indicator will light.
3. You may leave through an entry/exit door during the exit delay period without causing an alarm.

After exit delay, the system arms and will sound an alarm if a protected window or door is then opened, or if any movement is detected inside your premises.

An alarm will sound immediately if anyone opens an entry/exit door.

### TYPICAL DISPLAY

"ARMED MAXIMUM"



FIXED-WORD

# Disarming and Silencing Alarms

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## Using the **1** OFF Key

The **OFF** key is used to disarm the system and to silence alarm and trouble sounds.

**IMPORTANT: If you return and the main burglary sounder is on: DO NOT ENTER, but CONTACT THE POLICE from a nearby safe location.**

**If you return after an alarm has occurred and the main sounder has shut itself off:** the keypad will beep rapidly upon your entering, indicating that an alarm has occurred during your absence (the Memory of Alarm feature).

LEAVE IMMEDIATELY and CONTACT THE POLICE from a nearby safe location.

WHEN SAFE TO DO SO, re-enter and follow the procedure for silencing an alarm.

## To Disarm the System

Enter your **security code** and press the **OFF** key. The "Ready" message will be displayed, and the keypad will emit a single tone to confirm that the system is disarmed.

## To Silence a Burglary Alarm

Enter your **security code** and press the **OFF** key to silence the alarm (or warning tones of a Memory of Alarm). Note the zone in alarm on the keypad display, and make that zone intact (close door, window, etc.). Now enter the security code plus OFF sequence again to clear the keypad's Memory of Alarm display. If the display will not clear and does not provide a "Ready" message, notify the alarm agency.

To Silence a Fire Alarm simply press the **OFF** key (the security code is not needed to silence FIRE alarms). To then clear the keypad's Memory of Alarm display, enter your security code and press the OFF key again.

Refer to the **Fire Alarm System** section for additional information.

Refer to the **Summary of Audible/Visual Notification** section for information which will help you to distinguish between FIRE (Interrupted/Pulsed) and BURGLARY (Continuous/Steady) alarm sounds.

# ***Bypassing Protection Zones***

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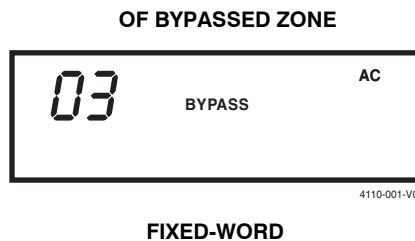
## **Using the 6 BYPASS Key**

This key is used when you want to arm your system with one or more zones intentionally unprotected. The system must be disarmed first.

When bypassing zones:

- The system will not allow fire zones to be bypassed.
  - All bypasses are removed when an OFF sequence (security code plus OFF) is performed.
  - Bypassed zones are unprotected and will not cause an alarm if violated while your system is armed.
1. Enter your security code and press the **BYPASS** key.
  2. Enter zone number(s) for the zone(s) to be bypassed (e.g., 06, 10, 13, etc.). *Single digit zone numbers must be preceded by a zero (e.g. 05, 06).*
  3. When finished, the keypad will display a "Bypass" message along with each bypassed zone number, accompanied by a beep for each. Wait for these zones to be displayed, to confirm their bypass.
  4. Arm the system as usual.

### **TYPICAL MOMENTARY DISPLAY**



## ***Bypassing Protection Zones (cont'd)***

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### **Quick Bypass**

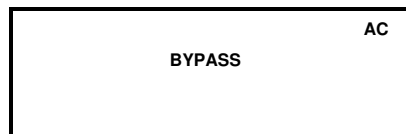
Ask your installer if "Quick Bypass" is active for your system, and if so, check here:

If your system supports "Quick Bypass," it allows you to easily bypass all open (faulted) zones without having to enter zone numbers individually.

To use this feature, enter your security code, press the **BYPASS** key, then stop. In a few moments, all open zones will be displayed along with a "Bypass" message. Wait for all bypassed zones to be displayed, then arm the system as usual.

### **TYPICAL DISPLAY**

"READY TO ARM WITH ZONES BYPASSED"



**FIXED-WORD**

# ***Using the Keyswitch***

---

## **General**

Your system may be equipped with a keyswitch for use when arming and disarming. A single red light on the keyswitch plate indicates the status of your system as follows:

OFF = Disarmed, Not Ready for Arming

SLOW FLASHING = Disarmed, Ready for Arming

RAPID FLASHING = Armed STAY or AWAY

## **Arming**

To arm in the AWAY mode, turn key to right for 1/2 second.

To arm in the STAY mode, hold key turned to right for more than one second.

The keypads will beep twice (AWAY mode) or 3 times (STAY mode) and the keyswitch light will flash rapidly.

## **Disarming**

To disarm the system, turn the key to the right and release.

If an alarm has occurred during the armed period, the keyswitch's light will not flash on disarming (thus indicating memory of an alarm). With some controls, turning the keyswitch key to the right a second time after disarming can clear the alarm from memory, but it is advisable, instead, to refer to a keypad to diagnose and clear any problem, and to subsequently clear alarm memory.

## Chime Mode

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### Using the **9** CHIME Key

This feature can be used only while the burglary system is disarmed.

Your system can be set to alert you to the opening of a door or window while it is disarmed by using CHIME mode. When activated, three tones will sound at the Keypad whenever a protected door or window is opened. Pressing the **READY** key will display the open points.

#### **To turn Chime Mode on:**

Enter the security code and press the **CHIME** key. The CHIME message will appear.

#### **To turn Chime Mode off:**

Enter the security code and press the **CHIME** key again. The CHIME message will disappear.

# ***Panic Keys***

---

## **Using Panic Keys**

Your system may have been programmed to use special keys or combinations of keys to manually activate emergency (panic) functions. The functions that might be programmed are: Silent Emergency, Audible Emergency, Personal Emergency, and Fire.

### **To activate a Panic Function**

Press an active lettered key for at least two seconds.

OR

Press both keys of an active pair at the same time.

**A silent emergency** will send a silent alarm signal to the central station\*, but there will be no audible alarms or visual displays.

**An audible emergency** will send a signal to the central station\* and sound a loud, steady alarm at your keypad(s) and at any external sounders that may be connected (ALARM plus a zone number would also be displayed).

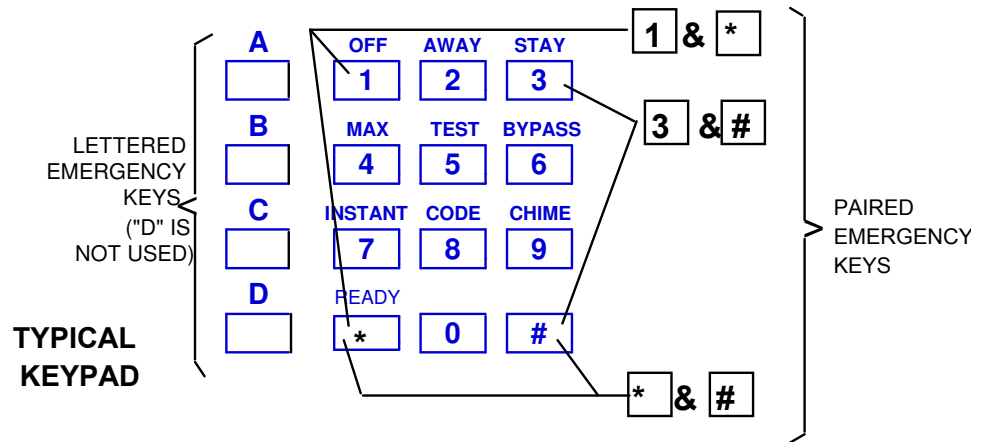
**A personal emergency** alarm will send an emergency message to the central station\* and will sound at keypad(s), but not at external bells or sirens.

**A fire alarm** will send a fire alarm message to the central station\* and will uniquely sound at keypad(s) and external bells and sirens (FIRE plus a zone number would also be displayed).

\* If connected



## Panic Keys (cont'd)



CHECK IF ACTIVE	PANIC KEY(S)	PROGRAMMED FUNCTION	ZONE NUMBER
<input type="checkbox"/>	[A]	SILENT EMERGENCY (Fixed-Function)	95
<input type="checkbox"/>	[B]	___ SILENT, ___ AUDIBLE, ___ PERSONAL, ___ FIRE	07
<input type="checkbox"/>	[C]	AUDIBLE EMERGENCY (Fixed-Function)	96
OR			
<input type="checkbox"/>	[1] & [*]	SILENT EMERGENCY (Fixed-Function)	95
<input type="checkbox"/>	[*] & [#]	___ SILENT, ___ AUDIBLE, ___ PERSONAL, ___ FIRE	07
<input type="checkbox"/>	[3] & [#]	AUDIBLE EMERGENCY (Fixed-Function)	96

SEE YOUR  
INSTALLER AND  
NOTE THE KEY(S) &  
FUNCTION(S)  
PROGRAMMED  
FOR YOUR SYSTEM

- KEYS [A], [B], AND [C] ARE NOT PRESENT ON ALL KEYPADS.
- KEY [D], IF PRESENT ON YOUR KEYPAD, IS NOT ACTIVE HERE.

# Testing the System

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## Using the **5** TEST Key

The **TEST** key puts your system into Test mode, which allows each protection point to be checked for proper operation. Testing should be conducted weekly to ensure proper operation.

**NO ALARM REPORTS WILL BE SENT TO THE CENTRAL MONITORING STATION while the system is in Test mode.**

1. Disarm the system and close all protected windows, doors, etc. The keypad's **READY** message should be displayed and the **READY** indicator (if present) should be lit.
2. Enter your security code and press the **TEST** key.
3. The keypad will sound a single beep every 40 seconds as a reminder that the system is in the test mode.

Each time a protection zone is faulted, the external siren or bell should sound for one second and then turn off, while the keypad sounds 3 beeps. *If this does not happen, call for service immediately.*

4. Open and close each protected door and window in turn and listen for the required sounds. The identification of each faulted protection point should appear on the display.
5. Walk in front of any interior motion detectors (if used) and listen for the required sound as movement is detected. The identification of the detector should appear on the display when it is activated.
6. Follow the manufacturer's instructions to test all smoke detectors, to ensure that all are functioning properly. The identification of each detector should appear on the display when each is activated.
7. After all protection points have been checked and restored, there should be no zone identification numbers displayed. If a problem is experienced with any protection point (no confirming sounds, no display), **CALL FOR SERVICE IMMEDIATELY.**
8. Turn off the Test mode by entering the security code and pressing the **OFF** key.

# Trouble Conditions

---

## "Check" and "Battery" Displays

The word **CHECK** on the keypad's display, accompanied by a "beeping" at the keypad, indicates a trouble condition in the system.

**To silence the beeping for these conditions, press any key.**

1. A display of **"CHECK" and one or more zone numbers** indicates that a problem exists with the displayed zone(s) and requires your attention. **If the CHECK display relates to a fire zone, CALL FOR SERVICE IMMEDIATELY.**
2. Determine if the zone(s) displayed are intact and make them so if they are not. If the problem has been corrected, the display can be cleared if you enter the OFF sequence (user code plus OFF key) twice. **If the display persists, CALL FOR SERVICE IMMEDIATELY.**

### TYPICAL "CHECK" DISPLAY



FIXED-WORD

3. A display of **"BAT" with no zone number or beeping** indicates that the main standby battery in your control is weak. **If this condition persists for more than one day (with AC present), CALL FOR SERVICE.**

## Power Failure

**If there is no keypad display at all, and the POWER indicator (if present) is not lit,** operating power for the system has stopped and the system is inoperative. **CALL FOR SERVICE IMMEDIATELY.**

**If the message "AC LOSS" or "NO AC" is displayed, and the POWER indicator (if present) is off,** the Keypad is operating on battery power only. If only some lights are out on the premises, check circuit breakers and fuses and reset or replace as necessary. **CALL FOR SERVICE IMMEDIATELY if AC power cannot be restored.**

## ***Trouble Conditions (cont'd)***

---

### **Other Displays**

- dl:** If this remains displayed for more than 1 minute, your system is disabled.  
**CALL FOR SERVICE IMMEDIATELY.**
- CC:** The system is in communication with the central station for change of function or status verification. **If this message persists for more than 10 minutes, CALL YOUR SERVICE COMPANY.**
- FC:** A communication failure has occurred. **CALL FOR SERVICE IMMEDIATELY.**
- OC:** The keypad is not receiving signals from the control panel and sees an open circuit. *If this message persists for more than 10 minutes, CALL YOUR SERVICE COMPANY.*

# Fire Alarm System

---

## IF INSTALLED

### General

Your fire alarm system (if installed) is on 24 hours a day, for continuous protection. In the event of an emergency, the strategically located smoke and heat detectors will automatically send signals to your system, triggering a loud, interrupted sound from the Keypad. An interrupted sound will also be produced by optional exterior sounders. A FIRE message will appear at your Keypad and remain on until you silence the alarm.

### In Case Of Fire Alarm

1. Should you become aware of a fire emergency before your detectors sense the problem, go to your nearest Keypad and manually initiate an alarm by pressing the panic key pair assigned as FIRE emergency (if programmed by the installer). See the "PANIC KEYS" section.
2. Evacuate all occupants from the premises.
3. If flames and/or smoke are present, leave the premises and notify your local Fire Department immediately.
4. If no flames or smoke are apparent, investigate the cause of the alarm. The zone number(s) of the zone(s) in an alarm condition will be displayed at the Keypad.

### TYPICAL "FIRE EMERGENCY" DISPLAY



FIXED-WORD

## ***Fire Alarm System (cont'd)***

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### **Silencing Fire Alarms**

1. Silence the alarm by pressing the **OFF** key (security code not needed to silence fire alarms). To clear the display, enter your code and press the **OFF** key again (Memory of Alarm).
2. If the Keypad does not indicate a **READY** condition after the second **OFF** sequence, press the **READY** key to display the zone(s) that are faulted. Be sure to check that smoke detectors are not responding to smoke or heat producing objects in their vicinity. Should this be the case, eliminate the source of heat or smoke.
3. If this does not remedy the problem, there may still be smoke in the detector. Clear it by fanning the detector for about 30 seconds.
4. When the problem has been corrected, clear the display by entering your code and pressing the **OFF** key.

## Fire Alarm System (cont'd)

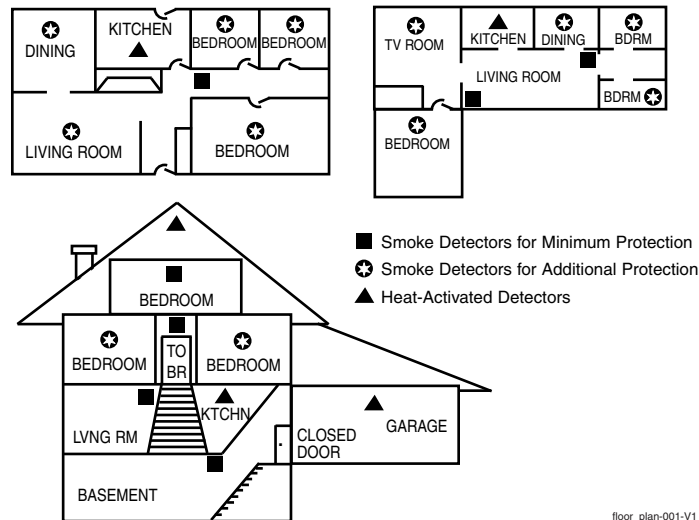
### National Fire Protection Association Recommendations on Smoke Detectors

#### General

With regard to the number and placement of smoke/heat detectors, we subscribe to the recommendations contained in the National Fire Protection Association's Standard #74 noted below.

Early warning fire detection is best achieved by the installation of fire detection equipment in all rooms and areas of the premises as follows: A smoke detector installed outside of each separate sleeping area, in the immediate vicinity of the bedrooms and on each additional story of the family living unit, including basements and excluding crawl spaces and unfinished attics.

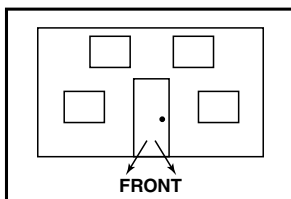
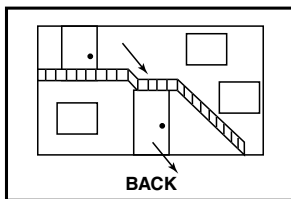
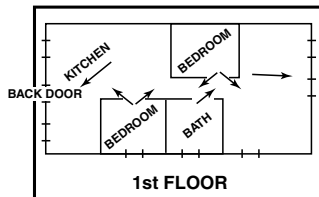
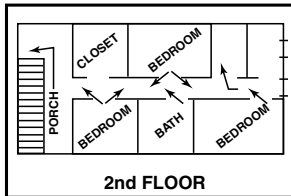
In addition, it is recommended that the owner consider the use of heat or smoke detectors in the living room, dining room, bedroom(s), kitchen, hallway(s), attic, furnace room, utility and storage rooms, basements and attached garages.



# Fire Alarm System (cont'd)

## Emergency Evacuation

Establish and regularly practice a plan of escape in the event of fire. The following steps are recommended by the National Fire Protection Association:



floor\_plan-002.VO

### Steps to Safety

1. Plan on your detector or your interior and/or exterior sounders warning all occupants.
2. Determine two means of escape from each room. One path of escape should lead to the door that permits normal exit from the building. The other may be a window, should your path be unpassable. Station an escape ladder at such windows if there is a long drop to the ground.
3. Sketch a floor plan of the building. Show windows, doors, stairs and rooftops that can be used to escape. Indicate escape routes for each room. Keep these routes free from obstruction and post copies of the escape routes in every room.
4. Assure that all bedroom doors are shut while you are asleep. This will prevent deadly smoke from entering while you escape.
5. Try the door. If the door is hot, check your alternate escape route. If the door is cool, open it cautiously. Be prepared to slam the door if smoke or heat rushes in.
6. Crawl in the smoke and hold your breath.
7. Escape quickly; don't panic.
8. Establish a common meeting place outdoors, away from your premises, where everyone can meet and then take steps to contact the authorities and account for those missing. Choose someone to assure that nobody returns to the premises — many die going back.



## **Quick Guide to Basic System Functions**

FUNCTION	PROCEDURE	COMMENTS
<b>Check Zones</b>	Press READY key.	To view faulted zones when system not ready.
<b>Arm System</b>	Enter code. Press arming key desired: (AWAY, STAY, INSTANT, MAXIMUM)	Arms system in mode selected.
<b>Quick Arm (if programmed)</b>	Press #. Press arming key desired: (AWAY, STAY, INSTANT, MAXIMUM)	Arms system in mode selected, quickly and without use of code.
<b>Bypass Zone(s)</b>	Enter code. Press BYPASS key. Enter zone number(s) to be bypassed (use 2-digit entries).	Bypassed zones are unprotected and will not cause an alarm if violated.
<b>Quick Bypass (if programmed)</b>	Enter code. Press BYPASS key.	Bypasses all faulted zones automatically.
<b>Silence Sounders</b> <b>Burglary:</b> <b>Fire:</b> <b>"Check":</b>	Enter code. Press OFF key. Press OFF key. Press any key.	Also disarms system. Memory of alarm remains until cleared. Memory of Alarm remains until cleared. Determine cause. see "Check" and "Battery" Displays under TROUBLE CONDITIONS.
<b>Disarm System</b>	Enter code. Press OFF key.	Also silences sounders. Memory of alarm remains until cleared.
<b>Clear Alarm Memory</b>	After disarming, enter code again. Press OFF key again.	Keypad will beep rapidly upon entry if alarm has occurred. Alarm display will remain upon disarming until cleared.
<b>Duress (if connected to central station)</b>	Enter user code 8 to arm or disarm "normally."	Performs desired action and sends silent alarm to central station.
<b>Panic Alarms (as programmed)</b>	Press key [A], [B], or [C] for at least 2 sec., or (if no A, B, or C on your keypad) press keys [1]&[*], or [*]&[#], or [3]&[#], both at same time.	See "PANIC KEYS" for functions programmed for your system.
<b>Chime Mode</b>	<i>To turn ON or OFF:</i> Enter code. Press CHIME key.	Keypad will sound if doors or windows are violated while system is disarmed and chime mode is ON.
<b>Test Mode</b>	<i>To turn ON:</i> Enter code. Press TEST key. <i>To turn OFF:</i> Enter code. Press OFF key.	Tests alarm sounder and allows sensors to be tested.

## Summary of Audible/Visual Notification

SOUND	CAUSE	DISPLAY
LOUD, INTERRUPTED† Keypad & External	FIRE ALARM	FIRE and ALARM are displayed; protection zone in alarm is displayed.
LOUD, CONTINUOUS† Keypad & External	BURGLARY/AUDIBLE EMERGENCY ALARM	ALARM is displayed; protection zone in alarm is also displayed.
ONE SHORT BEEP (not repeated) Keypad only	a. SYSTEM DISARM  b. SYSTEM ARMING ATTEMPT WITH AN OPEN ZONE  c. BYPASS VERIFY	a. Only READY is displayed. Green READY indicator (if present) is lit. b. NOT READY is displayed, open protection zone number is displayed. Green READY indicator (if present) is not lit. c. The bypassed protection zone numbers are displayed. (One beep for each number displayed.) BYPASS displayed.
ONE SHORT BEEP (once every 40 seconds) Keypad only	SYSTEM IS IN TEST MODE	Opened Zone identifications will appear.
ONE BEEP every 40 sec. Keypad only	TROUBLE	CHECK displayed. Troubled protection zone is displayed.
TWO SHORT BEEPS Keypad only	ARM AWAY OR MAXIMUM	AWAY and (if MAXIMUM) INSTANT are displayed.
THREE SHORT BEEPS Keypad only	a. ARM STAY OR INSTANT  b. ZONE OPENED WHILE SYS- TEM IS IN CHIME MODE  c. ZONE OPENED WHILE SYS- TEM IS IN TEST MODE	a. STAY and (if INSTANT) INSTANT are displayed. Red ARMED indicator is lit. b. CHIME displayed. Pressing */ READY key will display opened zone. c. Open protection zone number is displayed.
RAPID BEEPING Keypad only	MEMORY OF ALARM	FIRE and/or ALARM is displayed; zone in alarm is displayed.
SLOW BEEPING Keypad only	ENTRY DELAY WARNING	None during delay; Exceeding the delay time without disarming causes alarm.

†If bell is used as external sounder, fire alarm is pulsed ring; burglary/audible emergency is steady ring.

- Notes:**
- **BAT** displayed (with no beeping or zone number) indicates system main battery is weak see "Check" and "Battery" Displays under *TROUBLE CONDITIONS*
  - Also see *Power Failure*, and *Other Displays* under *TROUBLE CONDITIONS*.

## Protection Zones List

One or more sensing devices will have been assigned by the installer of your alarm system to each of the various protection zones in your system (*although not every zone number can be used*). For example, the sensing device on your Entry/Exit door may have been assigned to zone 06, sensing devices on windows in the master bedroom to zone 10, and so on.

Zone numbers 07, 95 and 96 represent Keypad "Panic" alarm functions assigned by the installer (see Page 23). Zone numbers 08 and 09 are reserved for Duress and Tamper signal reporting to the central station.

This chart may be used to record the specific zone number assignments for your system. Your installer will assist you in recording this information.

### PROTECTION ZONE DESCRIPTIONS

Zone	Description
01	
02	
03	
04	
05	
06	
07	Key B (or: * & #) Panic
08	-Duress-
95	Key A (or 1 & *) Panic
96	Key C (or 3 & #) Panic

**OWNER'S INSURANCE PREMIUM  
CREDIT REQUEST**

This form should be completed and forwarded to your homeowner's insurance carrier for possible premium credit.

**A. GENERAL INFORMATION:**

Insured's Name and Address: \_\_\_\_\_  
\_\_\_\_\_

Insurance Company: \_\_\_\_\_ Policy No.: \_\_\_\_\_

**ADEMCO 4110XM**

Type of Alarm:  Burglary  Fire  Both

Installed by: \_\_\_\_\_ Serviced by: \_\_\_\_\_  
Name Name  
Address Address

**B. NOTIFIES (Insert B for Burglary, F for Fire, where appropriate):**

Local Sounding Device \_\_\_\_\_ Police Dept. \_\_\_\_\_ Fire Dept. \_\_\_\_\_  
Central Station \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_

**C. POWERED BY: A.C. With Rechargeable Power Supply**

**D. TESTING:**  Quarterly,  Monthly,  Weekly,  Other \_\_\_\_\_

(continued on other side)

**OWNER'S INSURANCE PREMIUM**

**CREDIT REQUEST (cont.)**

**E. SMOKE DETECTOR LOCATIONS:**

- Furnace Room     Kitchen     Bedrooms     Attic  
 Basement     Living Room     Dining Room     Hall

**F. BURGLARY DETECTING DEVICE LOCATIONS:**

- Front Door     Basement Door     Rear Door     All Exterior Doors  
 1st Floor Windows     All windows     Interior Locations  
 All Accessible Openings, Including Skylights, Air Conditioners and Vents

**G. ADDITIONAL PERTINENT INFORMATION:**

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# ***Regulatory Statements and Warnings***

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## **FEDERAL COMMUNICATIONS COMMISSION STATEMENTS**

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

### **CLASS B DIGITAL DEVICE STATEMENT**

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

### **FCC / IC STATEMENT**

This device 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.

## ***Regulatory Statements and Warnings (cont'd)***

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### **TELEPHONE/MODEM INTERFACE**

#### **FCC Part 68**

This equipment complies with Part 68 of the FCC rules. On the front cover of this equipment is a label that contains the FCC registration number and Ringer Equivalence Number (REN). You must provide this information to the telephone company when requested.

This equipment uses the following USOC jack: RJ31X

This equipment may not be used on telephone-company-provided coin service. Connection to party lines is subject to state tariffs. This equipment is hearing-aid compatible.

#### **Ringer Equivalence Number Notice:**

The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

## IN THE EVENT OF TELEPHONE OPERATIONAL PROBLEMS

If your security system has been connected to the telephone line, and there is trouble with regular telephone service, disconnect the security system from the telephone line by removing the plug from the RJ31X (CA38A in Canada) telephone wall jack (you should have been shown how to do this by your installing company). *Do not attempt to disconnect the telephone line connection inside the control cabinet. Doing so will result in the COMPLETE disruption of your regular telephone service.*

If the regular phone works correctly after the plug has been disconnected from the RJ31X wall jack, the security system has a problem and you should call your service representative for service immediately. If, upon disconnection of the security system from the wall jack, there is *still* a problem with telephone service, notify the telephone company that they have a problem and request prompt repair service.

**IMPORTANT: A security system connected to an alarm monitoring station relies on that connection.**

- If the security system is at fault, reinsert the plug as soon as the security system is repaired.
- If the phone service is at fault, re-insert the plug immediately, to ensure resumption of full protection upon restoration of phone service.

The user may not, under any circumstances (in or out of warranty), attempt any service or repairs to the system.



# Limitations of this System

## **WARNING! THE LIMITATIONS OF THIS ALARM SYSTEM**

While this system is an advanced design security system, it does not offer guaranteed protection against burglary or fire or other emergency. Any alarm system, whether commercial or residential, is subject to compromise or failure to warn for a variety of reasons. For example:

- Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.
- Intrusion detectors (e.g. passive infrared detectors), smoke detectors, and many other sensing devices will not work without power. Battery operated devices will not work without batteries, with dead batteries, or if the batteries are not put in properly. Devices powered solely by AC will not work if their AC power supply is cut off for any reason, however briefly.
- A user may not be able to reach a panic or emergency button quickly enough.
- While smoke detectors have played a key role in reducing residential fire deaths in the United States, they may not activate or provide early warning for a variety of reasons in as many as 35% of all fires, according to data published by the Federal Emergency Management Agency. Some of the reasons smoke detectors used in conjunction with this System may not work are as follows. Smoke detectors may have been improperly installed and positioned. Smoke detectors may not sense fires that start where smoke cannot reach the detectors, such as in chimneys, in walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of a residence or building. A second floor detector, for example, may not sense a first floor or basement fire. Moreover, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson. Depending upon the nature of the fire and/or the locations of the smoke detectors, the detector, even if it operates as anticipated, may not provide sufficient warning to allow all occupants to escape in time to prevent injury or death.
- Passive Infrared Motion Detectors can only detect intrusion within the designed ranges as diagrammed in their installation manual. Passive Infrared Detectors do not provide volumetric area protection. They do create multiple beams of protection, and intrusion can only be detected in unobstructed areas covered by those beams. They cannot detect motion or intrusion that takes place behind walls, ceilings, floors, closed doors, glass partitions, glass doors, or windows. Mechanical tampering, masking, painting or spraying of any material on the mirrors, windows or any part of the optical system can reduce their detection ability. Passive Infrared Detectors sense changes in temperature; however, as the ambient temperature of protected area approaches the temperature range of 90° to 105°F (32° to 40°C), the detection performance can decrease.
- Alarm warning devices such as sirens, bells or horns may not alert people or wake up sleepers if they are located on the other side of closed or partly open doors. If warning devices sound on a different level of the residence from the bedrooms, then they are less likely to waken or alert people inside the bedrooms. Even persons who are awake may not hear the warning if the alarm is muffled from a stereo, radio, air conditioner or other appliance, or by passing traffic. Finally, alarm warning devices, however loud, may not warn hearing-impaired people or waken deep sleepers.
- Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily out of service. Telephone lines are also subject to compromise by sophisticated intruders.
- Even if the system responds to the emergency as intended, however, occupants may have insufficient time to protect themselves from the situation. In the case of a monitored alarm system, authorities may not respond appropriately.
- This equipment, like other electrical devices, is subject to component failure. Even though this equipment is designed to last as long as 10 years, the electronic components could fail at any time.

The most common cause of an alarm system not functioning when an intrusion or fire occurs is inadequate maintenance. This alarm system should be tested weekly to make sure all sensors and transmitters are working properly.

Installing an alarm system may make one eligible for lower insurance rates, but an alarm system is not a substitute for insurance. Homeowners, property owners and renters should continue to act prudently in protecting themselves and continue to insure their lives and property.

We continue to develop new and improved protection devices. Users of alarm systems owe it to themselves and their loved ones to learn about these developments.

## SERVICING INFORMATION

Your local authorized service representative is the person best qualified to service your alarm system. Arranging a regular program with that person is advisable. Your local service representative is:

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

## **TWO YEAR LIMITED WARRANTY**

Honeywell International Inc., acting through its Security & Communications business ("Seller"), 2 Corporate Center Drive, Melville, New York 11747 warrants its products to be free from defects in materials and workmanship under normal use and service, normal wear and tear excepted, for 24 months from the manufacture date code; provided, however, that in the event the Buyer presents a proper invoice relating to the purchased product and such invoice bears a date later than the manufacture date, then Seller may at its discretion, reflect the warranty period as commencing at invoice date. Except as required by law, this Limited Warranty is only made to Buyer and may not be transferred to any third party. During the applicable warranty period, Seller will repair or replace, at its sole option and as the exclusive remedy hereunder, free of charge, any defective products.

Seller shall have no obligation under this Limited Warranty or otherwise if the product:

- (i) is improperly installed, applied or maintained;
- (ii) installed outside of stated operating parameters, altered or improperly serviced or repaired by anyone other than the Seller/Seller's Authorized Service/Repair Center;
- (iii) damage is caused by outside natural occurrences, such as lightning, power surges, fire, floods, acts of nature, or the like; or
- (iv) defects result from unauthorized modification, misuse, vandalism, alterations of serial numbers, other causes unrelated to defective materials or workmanship, or failures related to batteries of any type used in connection with the products sold hereunder.

### **Exceptions to Warranty With Respect to Honeywell Products listed below:**

Hardwire Contacts and PIRs – Seller warrants parts for hardwire contacts and PIRs in accordance with the terms of the above limited warranty for a period of five (5) years from the manufacture date code.

### **EXCLUSION OF WARRANTIES, LIMITATION OF LIABILITY**

THERE ARE NO WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY (i) CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES ARISING OUT OF OR RELATING IN ANY WAY TO THE PRODUCT AND/OR FOR BREACH OF THIS OR ANY OTHER WARRANTY OR CONDITION, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY SELLER'S OWN NEGLIGENCE OR FAULT AND EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES. Any product description (whether in writing or made orally by Seller or Seller's agents), specifications, samples, models, bulletin, drawings, diagrams, engineering sheets or similar materials used in connection with the Buyer's order are for the sole purpose of identifying the Seller's products and shall not be construed as an express warranty or condition. Any suggestions by Seller or Seller's agents regarding use, applications, or suitability of the products shall not be construed as an express warranty or condition unless confirmed to be such in writing by Seller. Seller does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, or that the products will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of a burglary, robbery or fire without warning, but it is not insurance or a guarantee that such will not occur or will not cause or lead to personal injury or property loss. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON ANY CLAIM AT ALL INCLUDING A CLAIM THE PRODUCT FAILED TO GIVE WARNING. However, if Seller is held liable whether directly or indirectly for any loss or damage with respect to the products it sells, regardless of cause or origin, its maximum liability shall not in any case exceed the purchase price of the product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Seller. Should your product become defective during the warranty, please contact your installer to facilitate repair or replacement with Seller pursuant to the terms hereof. Seller reserves the right to replace any defective product under warranty with new, refurbished, or remanufactured product.

**– Notes –**

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**– Notes –**

**– Notes –**

# Honeywell

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