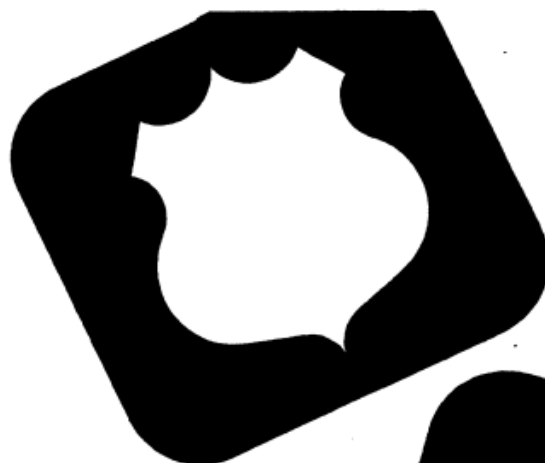


SECURITY

SYSTEM

OWNER'S

MANUAL



CareTaker[®] 

Security System Owner's Manual

Text No. 46-908-01 Rev. A

Table of Contents

INTRODUCTION	1
SECTION 1 OVERVIEW	
How it Works	3
Preview	3
SECTION 2 THE BASIC FEATURES	
Sounds	5
Short Status Announcement	6
Detailed Full Status Announcement	7
Entry and Exit Delays	8
Disarming Your System to Level 1 (OFF)	9
Arming Your System to Level 2 (STAY)	10
Arming Your System to Level 3 (AWAY)	11
Activating the Police Panic Alarm	12
Activating the Fire Panic Alarm	13
Activating the Auxiliary Panic Alarm	14
Stopping an Accidental Alarm	15
Automatic Test Features	16
SECTION 3 ADDITIONAL FEATURES	
Preview	17
Direct Bypassing of Sensors	18
Changing Delayed Intrusion Sensors to Instant	19
Chime Feature	20
Automatic Light Control	21
Turning the Energy Saver Feature On or Off	22
Setting Energy Saver Temperatures	23
Keychain Touchpads (Optional)	24
Alarm Memory	26
Testing the Monitoring Service Communications	27
Testing Sensors	28
Disable Local Operation	29
Off-Premises Access	30
Using the Duress Code	32
Changing Your Primary Access Code	33
Changing Your Temporary Access Code	34
SECTION 4 THINGS YOU SHOULD KNOW	
Glossary of Terms	35
Fire Safety	38
Draw Your Premises Floor Plan	39
Alarm System Limitations	40
SECTION 5 REFERENCE	
The Control Panel and TouchTone Phones	41
Sirens and Touchpads	42
Energy Saver Module (60-438) and Detection Sensors	43
Sensor Location Chart	45
Command Summary Chart	47
Quick Reference	48
Hardwire Touchpad Lighting	49
FCC and Telephone Considerations	50

Introduction

Congratulations!

Your purchase of this security system is a decision, that affords you greater peace of mind for the many years of service the system is designed to provide. This revolutionary security system allows you to use your TouchTone telephones for operating your system and receiving voice responses to your commands. It provides sophisticated intrusion detection without complex controls.

This manual will help you learn the features and operation of your security system. We suggest that you take the time to read this manual before attempting to use your new security system. You will find this system is simple to use but very powerful in providing security for your premises.

This manual consists of five sections:

SECTION 1 Introduces you to the components of your security system.

SECTION 2 Describes how to turn the intrusion detection on and off, and what to do if you create a false alarm or experience a problem with your security system.

SECTION 3 Describes advanced and optional features you may wish to use, once you have mastered the day-to-day operations in Section 2.

SECTION 4 Contains a Glossary of Terms to help you understand the terminology related to system operation (please review them before trying to operate your system) and important information regarding the limitations of your system.

SECTION 5 Contains reference information about your security system, its detection sensors, and what you should know about Federal Communications Commission Rules Part 15 and 68.

Special Note: Some features of this security system are optional and are available from your security consultant.

SECTION 1

Overview

At the heart of your system is a self-contained Control Panel (Panel), which serves as the decision-making control center for your security system. The Panel responds to commands you enter and monitors information it receives from a variety of security devices (sensors) located throughout your premises. These sensors detect conditions such as smoke, intrusion, forced entry, etc. Many different types of sensors are available for use with the system.

The components of a typical security system are shown below. Each component is discussed in detail in the reference section of this manual.

• AVAILABLE COMPONENTS

- The Panel
- Your TouchTone Telephone
- Wireless Touchpads
- Hi-Tech Hardwire Touchpad with Alphanumeric Display
- Interior Sirens
- Exterior Siren/Speakers
- Energy Saver Module

• DETECTION SENSORS

- Door/Window Sensor
- Passive Infrared Motion Sensor*
- Smoke Sensors
- Shock Sensors*
- Glass Guard Sensors*
- Portable Panic Sensors
- Fire Pull Stations*
- Freeze Sensors
- Rate-of-Rise (heat) Sensors*

This system provides Grade A U.L. services.

** Not investigated by U.L.*

HOW IT WORKS

A security system is a collection of devices that monitor specific areas of your premises. As stated before, it consists of a Panel and a number of security sensing devices (sensors). This system allows the use of conventional wired security devices and wireless devices using sophisticated radio frequency transmitters. With wireless devices, there are no wires attaching these sensors to the main Panel. All information gathered by these sensors is transmitted to the Panel by radio waves.

When a wireless sensor is activated, the information is coded by the sensor and transmitted to the Panel, where it is decoded. Based on the Panel's programming instructions, several things may happen. For instance, if the security system is "armed" and a monitored door is opened, a voice message announces the type of alarm and its sensor number, sirens activate, and if the Automatic Light Control is installed, lights flash alerting you or your neighbors to the alarm.

The Panel can also report the alarm information to a security monitoring service, that alerts the police in your area with specific information about your premises. This information is extremely valuable to the police department when they arrive. Your security system can also alert fire or emergency personnel to a situation that may occur at your premises. Personal panic transmitters are also available for use in the event of an emergency.

A convenient feature of your security system is the ability to use your premises telephones as command stations. Any TouchTone telephone in your premises can command the security system to arm or disarm, turn on lights, or summon help. It can even provide for an energy-saving thermostat control (with the appropriate hardware installed). By entering a special code, you can access your system whether on the premises or away. You can even operate features during a telephone conversation.



PREVIEW

The next two sections describe how to use the features of the security system. The following symbols and notations are used:

- **[*] [#] [1] [2] [3] [4]** etc. represent the buttons on a TouchTone phone or Touchpad.
- The sequence **[C] [O] [D] [E]** represents your 4-digit access code such as 1234.
- All commands work from an off-premises telephone, as well as an on-premises telephone or touchpad unless noted. You must lift up the receiver to operate the system with an on-premises phone.

SECTION 2

The Basic Features

This section describes basic features for operating your system and terms that help you understand how the system responds, including the following:

- **Sounds**—A description of siren sounds, status sounds, and voice messages.
- **Short Status**—Announces the current arming level, identifies any open sensors, trouble conditions, or alarms in memory.
- **Detailed Status**—Announces all of the Short Status conditions, plus the status of the battery, AC power, whether the Energy Saver (if installed) is on or off, and the temperature.
- **"Arming Level 1 - Off"** —Turns system off. Stops or cancels most alarms.
- **"Arming Level 2 - Stay"** —Turns perimeter intrusion detection on.
- **"Arming Level 3 - Away"** —Turns all intrusion detection on.
- **Panic Alarms**—Police, fire, or auxiliary alarms that can be initiated from a TouchTone telephone or touchpad.
- **Accidental Alarms**—What happens and what to do if you cause an alarm, accidentally.
- **Automatic Test Features**—Automatic, built-in test routines that notify the monitoring service if the security system detects a problem.

SOUNDS

Your security system has several distinct sounds that indicate the status of your system. Some sounds are low volume and are used for command confirmation. Other sounds are high volume, intended to alert you to a potentially dangerous situation. Each feature, as described throughout this manual, indicates the siren or status sound you hear when operating the system.

The following describes some of the siren sounds and status messages you may hear.

Siren Sounds

Alarm

- Loud steady siren—Fire alarm (Takes precedence over intrusion alarms)
- Loud intermittent siren—INTRUSION or HELP alarm
- Low-level siren—Auxiliary alarms (Interior sirens only)

Status

- Six low-volume beeps every minute—A trouble condition exists.
- One, two, or three low-volume beeps—The Panel is acknowledging that you have armed to level 1, 2, or 3.
- Long (one second) low-volume beep—The Panel is acknowledging your command.
- Pulsing beeps—The Panel is “protesting” your attempt to arm because a door or window is open or, after disarming the system using a wireless touchpad, the Panel is alerting you that an alarm occurred during the last armed period.
- Two very short, low-volume beeps—The Chime feature is indicating a perimeter door or window opening.

Voice Messages*

Alarm

- *Fire, Fire* Sensor 80
- *Help, Help* Sensor 81
- *Intrusion, Intrusion* Sensor nn

Status

- (short) *Alarm system is off.*
 - (detail) *Hello, alarm system is off, system battery is okay, AC power is okay, Energy Saver is off, temperature is 76 degrees, good-bye.*
 - *Alarm system is on level two.*
 - *Alarm system is on level three.*
- * There are many different voice messages. Specific voice messages for each feature are found with that feature in this manual.

SHORT STATUS ANNOUNCEMENT

When to Use:

- When you want to know the current arming level of your system. If the system's intrusion detection is off, the Short Status Command tells you if any doors or windows are open.

What to Do:



- Press + on any on-premises TouchTone phone (off hook)

OR



- Press STATUS on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The sirens will beep
ONE BEEP
TWO BEEPS
THREE BEEPS

Meaning

Arming level 1 (OFF)
Arming level 2 (STAY)
Arming level 3 (AWAY)

- If you are operating the system from a telephone, you hear the current arming level as follows:

Voice Messages

"Alarm system is off."
"Alarm system is on level two."
"Alarm system is on level three."

Meaning

Arming level 1 (OFF)
Arming level 2 (STAY)
Arming level 3 (AWAY)

- If you are operating the system from an Alphanumeric Touchpad, the display shows:

Display
1-OFF
2-STAY
3-AWAY

Meaning

Arming level 1 (OFF)
Arming level 2 (STAY)
Arming level 3 (AWAY)

Notes:

- The message for arming level 1, "Alarm system is off," means that all level 2 and 3 intrusion detection is off. Fire sensors, auxiliary alarms from phones or touchpads, as well as special intrusion sensors, are always on unless bypassed.
- Intrusion sensors in an "open" state are announced after the arming level is announced. For example: "Alarm system is off, Sensor 23 open."
- Any system trouble conditions are also announced.

DETAILED FULL STATUS ANNOUNCEMENT

When to Use:

- When you want a complete status description of your security system.

What to Do:



- Press ***+C O D E+#+1** or ***+#+#** on any TouchTone phone (off hook)

OR



- Press STATUS + STATUS on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- **The sirens will beep**

ONE BEEP	Arming level 1 (OFF)
TWO BEEPS	Arming level 2 (STAY)
THREE BEEPS	Arming level 3 (AWAY)
- You hear a complete status description of your system. (Some announcements are made only if that event has occurred.)

Voice Message

"Sensor nn alarm memory"
"Sensor nn open"
"Alarm system is off."
"Alarm system is on level 2."
"Alarm system is on level 3."
"Energy Saver is on/off."
"Temperature is xx degrees."

"Sensor nn trouble"
"AC power is OK."
"AC power failure"

"System battery is OK."
"System battery failure"
"Sensor nn bypassed "
"Good-bye"

Meaning

Indicates an alarm since last armed.
If any sensors are open.
If the system is in level 1, OFF.
If the system is in level 2, STAY.
If the system is in level 3, AWAY.
Energy Saver status (if installed).
Gives temperature if Energy Saver
Module is installed.

If a sensor has a trouble condition.
Indicates status of the AC power.

Indicates status of the Panel
and the backup battery.
If a sensor has been bypassed.
At the conclusion of the message.

ENTRY AND EXIT DELAYS

- Entry Delay:** An entry delay (programmed by your security consultant) is the time allowed for you to enter the premises and disarm the system, before an alarm occurs. Your entry delay time is set for ____ seconds.
- Your security system features two types of entry delay beeps: 1) normal pulsing entry beeps and 2) rapid pulsing entry beeps.
- CAUTION: Do not enter the premises if you hear sirens. Call for emergency help from a neighbor's phone.**
- What Will Happen:**
- Under normal circumstances when you enter an entry delay door, you hear a continuous pulsing sequence of three low-volume beeps, if the system is armed to level 3. Or, you hear a two-beep sequence if the system is armed to level 2.
 - If an alarm occurred while you were away, a faster two- or three-beep pulsing sequence sounds for the duration of the entry delay or until you disarm the system to level 1.
- CAUTION: The faster pulsing beeps warn you that an alarm has occurred. Do not enter the premises. Call for emergency help from a neighbor's phone.**
- Exit Delay:** The exit delay (programmed by your security consultant) is the time allowed for you to exit the premises after arming the system, before an alarm occurs. Your exit delay time is set for ____ seconds.
- What Will Happen:**
- The exit delay in level 2 sounds two beeps at the beginning and at the end of the delay time.
 - In level 3, the exit delay sounds three beeps at the beginning and at the end of the delay time.
- Note:**
- To avoid an accidental alarm, you must exit before you hear the second round of exit delay beeps (at the end of the exit delay); otherwise, the system must be disarmed and then re-armed before leaving the premises.

DISARMING YOUR SYSTEM TO LEVEL 1 (OFF)

When to Use:

- When entering the premises and you want to turn off all intrusion sensors. All 24-hour sensors (Special and Fire/Panic) are always armed.

Note: You will hear normal or rapid entry delay beeps upon entering your premises. For more information, see "Entry and Exit Delays."

- When you want to stop or cancel an alarm.

What to Do:



- Press **☒**+**C O D E**+**1** on any TouchTone phone on-premises (off hook)

OR



- Press **C O D E** + **1** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The sirens signal the following:
ONE LONG BEEP - Indicating the system is in level 1 (off).
- If operating from a telephone, you hear, "Alarm system is off."
- The Alphanumeric display shows: 1-OFF.

Notes:

- The message, "Alarm system is off," means that all level 2 and 3 intrusion sensors are off. All special 24-hour interior sensors are still armed. These sensors can only be turned off by bypassing them (see "Direct Bypassing of Sensors").
- Fire sensors, panic buttons, specials, and 24-hour environmental sensors remain on in level 1. Fire sensors cannot be bypassed.
- After disarming using a wireless touchpad, if sirens sound pulsing beeps (protesting), this indicates an alarm occurred during the last armed period.
To silence the siren beeps, you must repeat the disarm command.
- Trouble condition beeps sound only in level 1. Trouble beeps can be silenced for up to 10 hours by entering the disarm command.

ARMING YOUR SYSTEM TO LEVEL 2 (STAY)

When to Use:

- When you want perimeter intrusion sensors on and interior sensors off. For example, when you are going to remain in the building but want to have the doors and windows secured. Special and 24-hour Fire/Panic sensors remain on.

What to Do:



- Press ***+CODE+2** on any TouchTone phone (off hook)
OR



- Press **CODE+2** or COMMAND **2** on the Alphanumeric and Wireless Touchpad.

What Will Happen:

- The sirens signal one of the following:
EXIT DELAY BEEPS - At the beginning and at the end of the exit delay. For more information, see "Entry and Exit Delays."
PROTEST BEEPS - If a sensor is open (not secure).
- If operating from a telephone, you hear, "Alarm system is on level 2."
- The Alphanumeric display shows: 2-OK TO EXIT NOW, then 2-STAY.
- If anyone will be leaving the premises, exit immediately.
- If a perimeter intrusion sensor is open, your telephone beeps twice and announces, "Sensor nn is open." The Panel will not arm to level 2 until you disarm to level 1 and secure all openings. You must secure (close) all openings before rearming to level 2.

Notes:

- Before arming to level 2, enter the Short Status Command by pressing ***+*** (phone), or STATUS (touchpads) to see if any doors or windows are open.
- If you have an Alphanumeric Touchpad, see if the displayed arming level number is flashing. If so, perform a Short Status to see any trouble condition or which sensor is open.
- If you are unable to secure an open sensor, see "Bypass" in the next section and call your installation security consultant.
- In case of an accidental alarm, see "Stopping an Accidental Alarm."
- From this level, you can disarm to level 1 or arm to level 3.

ARMING YOUR SYSTEM TO LEVEL 3 (AWAY)

When to Use:

- When you want perimeter *and* interior intrusion sensors on. For example, when you are leaving and no one will be left on the premises.

What to Do:



- Press **[*][C][O][D][E][*][3]** on any TouchTone phone (off hook)

OR



- Press **[C][O][D][E][*][3]** or COMMAND **[3]** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The sirens signal one of the following:
EXIT DELAY BEEPS—At the beginning and at the end of the exit delay. For more information, see "Entry and Exit Delays."
PROTEST BEEPS—If a sensor is open (not secure).
- If operating from a telephone, you hear, "Alarm system is on level 3."
- If operating from an Alphanumeric Touchpad, the display will read 3-AWAY OKAY TO EXIT.
- If a perimeter intrusion sensor is open, your telephone beeps twice and announces, "Sensor nn open." The Panel will not arm to level 3 until you disarm the system to level 1 and secure all openings. You must secure (close) all openings before rearming to level 3.
- If leaving, leave immediately.

Notes:

- Before arming to level 3, enter the Short Status Command by pressing **[*][#]** (phone), or STATUS (touchpads) to see if any doors or windows are open.
- If you have an Alphanumeric Touchpad, see if the displayed arming level number is flashing. If so, perform a Short Status Command to see which sensor is open.
- Enter the premises only through an entry delayed door. When you enter, sirens beep three times repeatedly as a reminder that the system must be disarmed.
- In case of an accidental alarm, see "Stopping an Accidental Alarm."
- Use the access code (not the command button) to change the arming level to level 1 or 2.

ACTIVATING THE POLICE PANIC ALARM

When to Use:

- In an emergency when you want to send a panic signal to the monitoring service and when you want to sound the sirens.

What to Do:



- Press **✖✖✖✖✖✖** (at least 6 **✖**'s), or **✖ 88888** (at least five 8s) from any TouchTone phone

OR



- Press and hold the police shield button  for 2 full seconds on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The sirens make a loud beeping alarm sound.
- The exterior siren/speakers make a very loud siren sound and announce, "HELP, HELP... SENSOR 81." The exterior siren/speaker must be installed for this siren sound.
- If monitored, the Panel reports the alarm to the monitoring service so the proper authorities can be dispatched.

Notes:

- Your security consultant can turn this feature off, if it is not desired.
- This command does not work from off-premises phones.

How to Stop Sirens:



- Press **✖+C O D E+1** on telephone (off hook)

OR



- Press **C O D E+1** on the Alphanumeric or Wireless Touchpad.

ACTIVATING THE FIRE PANIC ALARM

When to Use:

- In an emergency when you want to send a fire signal to the monitoring service and when you want to sound the sirens.

What to Do:



- Press 7777 (at least five 7s) on any TouchTone phone (off hook)

OR



- Press and hold the FIRE button for 2 full seconds on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The sirens make a loud constant alarm sound.
- The Exterior Siren/Speakers make a very loud siren sound and announce, "FIRE, FIRE, SENSOR 80." The exterior siren/speaker must be installed for this siren sound.
- If monitored, the Panel reports the alarm to the monitoring service so the proper authorities can be dispatched.

Warning: This call cannot be stopped by disarming your system to level 1 as intrusion alarms can. If you accidentally cause a FIRE alarm, you must call the monitoring service and follow their particular procedure to prevent an emergency dispatch!

Notes:

- Your security consultant can turn this feature off, if it is not desired.
- This command does not work from off-premises phones.

How to Stop Sirens:



- Press + **C O D E** + **1** on telephone (off hook)

OR



- Press **C O D E** + **1** on the Alphanumeric or Wireless Touchpad.

This code stops only the sirens and not the monitoring service communications.

ACTIVATING THE AUXILIARY PANIC ALARM

When to Use:

- In an emergency, when you want to send an auxiliary panic signal to the monitoring service and when you want to sound the sirens.

What to Do:



- Press  99999 (at least five 9s) on any TouchTone phone (off hook)

OR



- Press and hold the Auxiliary button  for 2 full seconds on the Alphanumeric or Wireless Touchpads.

What Will Happen:

- The sirens make a loud beeping alarm sound.
- The interior speakers announce, "HELP, HELP... SENSOR 82."
- The interior sirens make loud siren sounds.
- If monitored, the Panel reports the alarm to the monitoring service so the proper authorities can be dispatched.

Notes:

- Your security consultant can turn this feature off if it is not desired.
- This command does not work from off-premises phones.

How to Stop Sirens:



- Press  +     +  on any TouchTone telephone (off hook)

OR



- Press     +  on the Alphanumeric or Wireless Touchpad.

STOPPING AN ACCIDENTAL ALARM

When to Use:

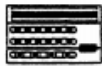
- When you have accidentally caused an intrusion alarm and wish to stop it.

What to Do:



- Press ***+CODE+1** on any TouchTone phone (off hook)

OR



- Press **CODE+1** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- All alarm sounds stop.
- The sirens signal the following:
ONE BEEP - Indicating the system is in level 1 - off.
- If you are operating from a telephone, you hear one of these two messages:

<u>Voice Messages</u>	<u>Meaning</u>
"Alarm system is off."	If you disarmed the system and the security system called in the alarm to the monitoring service.
"Alarm system is off, alarm bypassed."	If you disarmed the system before a monitoring service call was completed.

Notes:

- If the accidental alarm was an intrusion alarm and you stopped it within about 10 seconds, an alarm report is not sent to the monitoring service.
- Fire and duress alarms are not automatically cancelled! The siren sounds stop, but the monitoring service call still goes through. You should always call the monitoring service as soon as possible and follow their procedure to cancel these alarms.

Because monitoring service procedures vary from one area to another, be sure to follow the procedure that your security consultant has shown you to assure that authorities are not dispatched.

AUTOMATIC TEST FEATURES

Your security system has several automatic test routines built-in. If the system detects a problem, it notifies you. Call your security consultant to discuss what to do.

What Will Happen:

- If the system detects a problem, the interior sirens beep rapidly, six times every minute. As soon as you pick up the telephone, the system immediately announces the problem and releases the telephone to your control. You are then be able to review the message.

Perform a short status by pressing  . The six beeps may occur again 10 hours later if the problem is not corrected. The arming level indicator on the Alphanumeric Touchpad blinks until the trouble is corrected.

- If monitored, the system reports the trouble condition to the monitoring service.

The following describes some of the trouble messages you may hear:

Voice Messages

Meaning

"AC power failure"

Your system may have accidentally been unplugged or disconnected from AC power.

"System battery failure"

The emergency standby battery has failed and should be recharged or replaced.

"Sensor nn failure"

The particular sensor is not working.

"Sensor nn trouble"

A sensor has an internal problem such as a low battery or the cover is off. It may still be working.

"Fire sensor nn trouble"

A fire or smoke sensor has not properly reset after activation.

"83 phone failure"

Your telephone service is not working, or the security system has been disconnected from the phone line.

SECTION 3

Additional Features

PREVIEW

The following is a brief description of the system features described in this section:

- **Direct Bypass**—Turning off a special 24-hour intrusion sensor or any other intrusion sensor.
- **Instant**—Changing delayed intrusion sensors to instant after arming your system.
- **Chime**—Turning the Chime feature on and off.
- **Automatic Light Control**—Turning controlled lights on or off from a telephone or touchpad. This control feature “toggles” the lights on or off.
- **Energy Saver On or Off**—Turning the Energy Saver on or off.
- **Energy Saver Temperatures**—Setting the Energy Saver low- or high-temperature set point.
- **Keychain Touchpads**—Miniature, two- and four-button touchpads that fit on your keyring and allow simple system operation.
- **Alarm Memory**—Listening to the Alarm Memory messages stored in the security system.
- **Testing the Monitoring Service Communications**—This test can be performed at any time to test alarm communications to the monitoring service.
- **Testing Sensors**—Performing the Sensor Test for each sensor in your system.
- **Disable Local Operation**—Temporarily turning off the security system's response to the  and  buttons on your phone so that you can use these buttons for other purposes such as, electronic banking, accessing remote answering machines, etc.
- **Off-Premises Access**—Controlling your system from an off-premises phone.
- **Duress Code**—Entering this special code generates an emergency silent alarm while disarming or arming your system.
- **Changing Your Primary Access Code**—When you want to change your primary access code.
- **Changing Your Temporary Access Code**—When you want to change your temporary access code.

DIRECT BYPASSING OF SENSORS

When to Use:

- When you want to turn off an intrusion sensor after arming to level 2 or 3 (such as opening a window at night for fresh air).
- When you have a special intrusion sensor (24-hour) that is always on. (This is the only way to open these sensors without creating an alarm.)

What to Do:



1. Arm the system to the desired level (if it is different than the current level).
2. Press ***+C O D E+6+nn** from any TouchTone phone (off hook) *OR*



- Press **C O D E+ BYPASS +nn** on the Alphanumeric or Wireless Touchpad. (nn is the sensor number you want to bypass.)

What Will Happen:

- Sirens sound one short BEEP.
- Your telephone announces "Sensor nn bypassed."
- The Alphanumeric Touchpad display shows the arming level indicator flashing.

If you enter an incorrect sensor number, the Panel announces "Invalid." If this happens, repeat steps 1 and 2.

Notes:

- Bypassed sensors are no longer bypassed when the arming level is changed.
- Repeat steps 1 and 2 for each sensor you want bypassed.
- Fire and smoke sensors cannot be bypassed in this manner.
- Always use 2-digit sensor number entries, such as 07, 23, 01.
- To find out what sensors are bypassed, perform a short status from any touchpad or phone. The system announces "Alarm system is on ____ (current arming level). Sensor nn is bypassed."
- On the Alphanumeric Touchpad, after entering **C O D E+ BYPASS**, the display shows **BYPASS Sn _ _**. If an incorrect sensor number is entered, the display shows **BYPASS Sn FAIL**.

CHANGING DELAYED INTRUSION SENSORS TO INSTANT

- When to Use:**
- When you want maximum security.
 - When no entry delay times are needed. You want an instant alarm if an entry door is opened.
- What to Do:**
- Press **4** immediately after arming to level 2 or 3.
- Example: ***+CODE+2+4**, level 2 instant or
***+CODE+3+4**, level 3 instant.
- What Will Happen:**
- Interior sirens sound two or three beeps indicating the arming level. In addition, when you press **4**, you hear "No Delay" indicating the system is armed with no delay.
 - If operating from a telephone, the system announces, "Alarm system is on level __ no delay."
 - If operating from an Alphanumeric Touchpad, the system displays 2-STAY NO DELAY or 3-AWAY NO DELAY.
- Notes:**
- If an entry door is opened after the system is armed with no delay, the sirens sound immediately.
 - Changing the arming level sets entry delay sensors back to their normal delayed status.

CHIME FEATURE

When to Use:

- Turn the Chime feature on if you want sirens to beep every time a monitored perimeter door or window is opened, while the system is off (level 1).

What to Do:



- Press ***+CODE+7** from any TouchTone telephone (off hook)

OR



- Press **CODE+7** or **COMMAND 7** on the Alphanumeric or Wireless Touchpad.
- The Chime feature, like several other features, "toggles" or changes from off to on, or on to off, when you enter this command.

What Will Happen:

- Sirens sound one short BEEP. The Wireless Interior Siren (if installed) beeps twice.
- Your telephone announces, "On/off."
- The Alphanumeric Touchpad displays CHIME ON, after the arming level display, when the chime is turned on.
- The Alphanumeric Touchpad removes CHIME ON when the chime is turned off.

Notes:

- If two doors or windows open within 3 seconds of each other, only one Chime may be heard.
- The Chime feature can be used only in level 1, and is turned off automatically when the system is armed to level 2 or 3.

AUTOMATIC LIGHT CONTROL

The ability of the security system to automatically turn on selected lights is an option your security consultant can install. The features and benefits of this option are:

- Turns lights on during entry and exit delay periods – lights your way while entering or exiting for 5 minutes.
- Flashes lights during an intrusion – provides a deterrent to intruders and calls attention to an emergency.
- Turns lights on steady during a fire – helps light your way out of a building.
- Warns you that an alarm occurred when you arrive at the premises – lights caused by an alarm stay on until the system is reset.

What to Do:



- Press ***+C O D E+0** from any TouchTone phone (off hook)

OR



- Press **C O D E+0**, COMMAND **0**, or BYPASS + BYPASS on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- All controlled lights turn on and remain on, until turned off by repeating the command.
- The system announces, "On/off" when the lights' status is changed.

Notes:

- The above commands toggle the lights on or off. For example, if the lights are on, they will be turned off; or if the lights are off, they will be turned on.
- Controlled lights with module settings at 1 always turn on during the exit and entry delay periods. These lights also turn on for all audible alarms and stay on until the alarm is turned off.

Controlled lights can also be turned on and off individually, using the Alphanumeric or Wireless Touchpad any time you wish, such as if you hear a suspicious sound at night.

What to Do:



- Press BYPASS + n (n= 1 - 9) on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- Lights plugged into lamp modules with the number used in the command, turn on or off.

TURNING THE ENERGY SAVER FEATURE ON OR OFF

When to Use:

- This optional feature (with the appropriate hardware installed) provides a premises thermostat override. When you wish to have the Energy Saver override your regular thermostat setting at night or while you are away, toggle the Energy Saver feature on. The Energy Saver Module controls the temperature according to the low- and high-temperature limit settings you set in the system (see "Setting Energy Saver Temperatures").

What to Do:



- Don't change the setting of your regular thermostat. Leave it set to your normal comfort level.

- Press ***+C O D E+5** from any TouchTone phone (off hook)

OR



- Press **C O D E+5** or COMMAND + **5** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- You hear a single BEEP from the interior sirens after **5**.
- If you are operating the system from a telephone, you hear "Energy Saver is on/off."
- The Alphanumeric Touchpad displays ENERGY SAVER IS ON or ENERGY SAVER IS OFF.

Notes:

- The Energy Saver commands, discussed above, turn the feature on or off each time they are used. If you are in doubt as to the current off/on status of the Energy Saver, you may wish to use the full status command. Press ***+#+#** from any TouchTone phone to determine the status before proceeding.
- If you accidentally turn the feature on or off because you were not aware of its current status, enter the command again to change it to the other state.

Application Note:

- The following example illustrates how the Energy Saver feature might be used in the winter. When you leave for work, you can set the Energy Saver on, to override your normal premises temperature setting of 70° F to a new setting of 60° F. This will keep your premises at 60° F all day. Before leaving work, call the security system and turn the Energy Saver off. This returns the temperature in your premises to 70° F before you arrive.

SETTING ENERGY SAVER TEMPERATURES

When to Use:

- When you wish to change the high or low thermostat control temperature settings within a 45° F to 90° F range.

What to Do:



- To set the low-temperature limit:

Press **[*][C][O][D][E][*][3]** from any TouchTone phone

OR

Press **[C][O][D][E] + STATUS + [3]** on the Wireless Touchpad.

Immediately enter your desired 2-digit setting such as

[5][5] for 55° F.

- To set the high-temperature limit:

Press **[*][C][O][D][E][*][4]** from any TouchTone phone

OR

Press **[C][O][D][E] + STATUS + [4]** on the Wireless Touchpad.

Immediately enter your desired 2-digit setting such as

[9][0] for 90° F.

- On the Alphanumeric Touchpad, press **[C][O][D][E] + STATUS + [3]**, the display shows LOW TEMP __ then flashes and displays Low Temp (new temp). When set, the display reads LOW TEMP OK. The same holds true for high-temperature setting. Set it in the same way with the command **[C][O][D][E] + STATUS + [4]**.

What Will Happen:

- Interior sirens beep and the telephone announces "Energy Saver low (high) temperature is xx degrees."

Notes:

- The minimum low limit is 40° F and the maximum high limit is 90° F.
- The factory settings are 90° F high and 50° F low.
- DO NOT set high and low temperatures closer than 14° F, such as 68° F (low) to 72° F (high).
In addition to temperature control, the Energy Saver has a built-in freeze detector. A Freeze Alarm report is sent to the monitoring service if the temperature falls below 42° F in the area where the Energy Saver is mounted. Your security consultant can adjust this temperature if you wish.

KEYCHAIN TOUCHPADS (OPTIONAL)

These miniature, two- and four-button wireless touchpads add portable convenience by letting you control basic system functions, instead of using a TouchTone phone or touchpad on the premises. A built-in light (located in the upper-left corner) blinks once to assure you that the Keychain Touchpad transmitted the signal. Depending on programming by your security consultant, these touchpads let you perform the following system functions:

- Disarm the system
- Arm the system to level 2 or 3
- Arm the system to level 2 or 3 and automatically bypass protesting (open) sensors
- Arm the system to level 3 with no delay
- Manually activate police and auxiliary panic alarms
- Activate lights controlled by lamp modules
- Turn the Energy Saver feature on and off

The following describes the touchpad button functions, based on system programming options you discussed with your security consultant.

Disarm Button

- | | |
|--------------------------|---|
| When to Use: | • When you want to disarm the system to level 1, or cancel an alarm. |
| What to Do: | • Press and hold the button until the light blinks. |
| What Will Happen: | • Sirens sound ONE LONG BEEP indicating the system is in level 1 (off). |

Arm Button

- | | |
|--------------------------|--|
| When to Use: | • When you want to arm the system to level 2 or 3. |
| What to Do: | • Press and hold the button until the light blinks. |
| What Will Happen: | • Sirens sound exit delay beeps at the beginning and end of the exit delay. For more information, see "Entry and Exit Delays." |
| Notes: | <ul style="list-style-type: none">• If sirens sound protest beeps, press the arm button again and the system automatically bypasses any open intrusion sensors.• Depending on programming, this touchpad may arm your system to the next higher arming level, or directly to level 3 with no delay. |

Disarm and Arm Buttons Together

- | | |
|--------------------------|--|
| When to Use: | • When you want to activate an alarm condition, manually. |
| What to Do: | • Press and hold both buttons together until the light blinks. |
| What Will Happen: | • The system sounds the appropriate alarm, as programmed. |

Lights Button

- When to Use:** • When you want to turn on or off lights controlled by lamp modules.
- What to Do:** • Press and hold the button until the light blinks.
- What Will Happen:** • Controlled lights turn on (if they were off) or off (if they were on).

You can also make controlled lights flash on and off, continuously.

- What to Do:** • Press and hold the button for about 3 seconds.
- What Will Happen:** • Controlled lights flash on and off, continuously at 1-second intervals.
- Notes:** • To stop lights from flashing, press any button on any touchpad or change the arming level.

Star Button

- When to Use:** • When you want to turn the Energy Saver Module on or off.
- What to Do:** • Press and hold the button until the light blinks.
- What Will Happen:** • Sirens sound one beep and the Energy Saver Module turns on (if it was off) or off (if it was on).

If you wish, your security consultant can program your system so that the star button activates the No Delay feature.

- What to Do:** • After arming the system, press and hold the button until the light blinks.
- What Will Happen:** • Interior speakers announce "No delay", acknowledging the command.
- Note:** • The star button can control either the Energy Saver Module or the No Delay feature, but not both.

Lights and Star Buttons Together

- When to Use:** • When you want to activate an auxiliary alarm condition, manually.
- What to Do:** • Press and hold both buttons together until the light blinks.
- What Will Happen:** • Interior sirens sound a low-level siren and the Panel reports the alarm to the central station, if the system is monitored.

ALARM MEMORY

When to Use:

- After an alarm has occurred, you can check alarm memory to determine what sensors caused the alarm during the last arming period.

What to Do:



- Press ***+CODE+#+5** from any TouchTone phone (off hook)

OR



- Press **CODE+STATUS+5** or **COMMAND STATUS** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- Your telephone announces any sensor numbers in memory. Example, "Sensor nn alarm memory."
- The Alphanumeric Touchpad displays the alarms. Example "01 memory ... 81 memory police," etc.
- If there are alarms or trouble conditions in the memory, the system announces them in order of occurrence.

Notes:

- Alarm memory can be accessed in any arming level.
- If no alarms are in the memory, the system announces, "Alarm memory is OK."

TESTING THE MONITORING SERVICE COMMUNICATIONS

When to Use:

- When you wish to test communication to your monitoring service.
- We recommend that you perform this test at least once each week or more often if you suspect a problem.

What to Do:



- Press ***+CODE+8** from any TouchTone phone (off hook)

OR



- Press **CODE+8** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The interior sirens immediately sound one long beep.
- If operating from a telephone, you hear, "Phone test is on." You may hang up.
- On the Alphanumeric Touchpad, the arming level number blinks. It stops blinking upon completion of the test. The Panel returns to level 1 when test is completed.

Notes:

- This command sends only a phone test report to your monitoring service. (See the next page for more information on how to test sensors.)
- If the test fails, sirens sound a series of rapid beeps every minute, until you pick up the phone; you hear "Phone test failure." Call your security consultant for assistance.
- Some monitoring services may require that you call them in advance of any test. Many services acknowledge your test with a telephone call. Ask your security consultant about this.
- You can also test the communications from an off-premises phone. You might want to do this if you are away for an extended period. Ask your security consultant for instructions.

TESTING SENSORS

When to Use:

- When you wish to test the sensors in your system.
- Although your system has many built-in self-test features, we recommend testing your system at least once each week; more often if you suspect a problem.

What to Do:

1. Be sure your system is off (level 1).



2. Press ***+C O D E+9** from any TouchTone phone (off hook)

OR



- Press **C O D E+9** on the Alphanumeric or Wireless Touchpad.

3. Walk around the premises opening monitored doors and windows and walk in front of motion sensors.

Note: Wireless motion sensors need a 3-minute rest between activations.

If the motion sensor does not respond, avoid the motion sensor's area of coverage for 3 minutes before testing again.

4. While still in the test mode, test the panic buttons on each touchpad. Press each panic button, one at a time, for a full 2 seconds on each touchpad.

What Will Happen:

- Sirens sound a short beep each time you test a sensor.
- Your telephone announces: "Sensor test is on," once a minute.
- Your telephone announces the sensor number and type as each sensor is tested. For example, "Sensor one OK."

Notes:

- To hear an announcement of the sensor numbers that have not yet been tested, press **#** on a TouchTone phone or press STATUS on an Alphanumeric or Wireless Touchpad.
- When all sensors have been tested, the system announces: "Sensor test is on ... All sensors test OK."
- To end testing, disarm the Panel to level 1.
- After 15 minutes, the Panel automatically disarms to level 1.
- DO NOT use this command from off-premises.

DISABLE LOCAL OPERATION

When to Use:

- When you must make calls that require using the **[*]** or **[#]** buttons, such as remote banking transactions. Both of these activities may confuse your security system unless you disable its response to these buttons.
- When you wish to access a second off-premises security system, such as in a second premises or in your business.

Note:

The system must be in level 1.

What to Do:



- Press **[*]+CODE+#+6** from any TouchTone phone (off hook).

What Will Happen:

- Your phone has a dial tone present immediately. You can now make your call without interference from the security system.
- The security system returns to its normal status as soon as you hang up the phone.

Note:

- Normally, during a phone conversation, you can access the security system at any time; but after entering the above command, the TouchTone command capabilities are disabled.

OFF-PREMISES ACCESS

When to Use:

- Whenever you wish to control your security system from an off-premises TouchTone telephone.
- If you forget to arm your system, you can call from a remote phone and arm it.
- If you are away and someone needs to gain entry to your premises or business, you can call and disarm the system for them.
- If you are on vacation and want to check to see if everything is OK, you can call your premises and request a detailed status.
- If you are on the way to your second premises and you want to call ahead and turn off the Energy Saver feature, so it will be warm (or cool) when you arrive.
- To turn lights on or off.

What to Do:



Note:

THE 12-RING METHOD. Use if you DO NOT have an answering machine connected to the same line as the security system.

You must use a TouchTone telephone.

1. Dial your premises or business. If you have more than one phone line, call the line connected to the system. Normally, the system answers after about 12 rings.

2. When the security system answers, you hear:
"System hello" and four beeps.

3. After the system says "System hello," enter your access code, followed by your command.

If you want a detailed status enter: *+CODE+#+1

To disarm your system, enter: *+CODE+1

To arm to level 3 Away, enter: *+CODE+3

Or, enter any other command, just as if you were on the premises.

4. When done, hang up. Or, if you pause longer than 30 seconds between commands, you hear "System good-bye" and the system hangs up. If this happens and you are not finished, start over and call the system again.

OFF-PREMISES ACCESS (Continued)

- What to Do:** THE RING/PAUSE/RING METHOD. Use if you DO have an answering machine connected to the same line as the security system.
1. Call the phone line connected to the system, let the phone ring twice, and hang up.
 2. Wait from 10 seconds (minimum) to 40 seconds (maximum). Call a second time. This time the system answers by the second ring.
 3. Follow steps 3 and 4 on the previous page.
- What Will Happen:**
- The system responds to your commands with actions and voice messages the same as it does when using an on-premises phone.
- Notes:**
- The system must be disarmed (level 1) before many functions, such as temperature changes, will work. Be sure to rearm.
 - Toll Saver feature. If you are using the 12-ring method for accessing your system, you can take advantage of the Toll Saver feature. To find out if everything is OK, without incurring a long distance charge, do the following:
 1. Call your premises or business and let the phone ring 9 times.
 2. Hang up if the system does not answer by the ninth ring.
 3. If there had been an alarm during the current arming period, the system would have answered at about the eighth ring. The system also answers after about 8 rings if there is a trouble condition, such as a low battery, sensor trouble, etc. If everything is OK, the system doesn't answer until about the twelfth ring.

USING THE DURESS CODE

- When to Use:**
- When you want to generate a silent alarm during the arm/disarm procedure at your touchpad.
(This alarm should only be used in an emergency.)
- Notes**
- The first two digits of your duress code are the same as the first two digits of your regular access code. The last two digits are different and are set by your security consultant.
 - The duress code works only if programmed by your security consultant.
- What to Do:**
-
- Press ***+C O N N** + (arming level) from any TouchTone phone (off hook)
-
- Press **C O N N** + (arming level) on the Alphanumeric or Wireless Touchpad.
- Note:**
- The last two digits of this code are different from your standard access code. These numbers can be programmed for you by your security consultant, if requested.
- What Will Happen:**
- The sirens signal the current status of your system.
 - The system sends a silent alarm (no siren sounds) to the monitoring service. This alerts the monitoring personnel to dispatch the police to the premises.
- Special Note:**
- An arming level does not have to be specified after the code. The system makes the monitoring service call immediately after the last digit of the code is entered.
- Warning:** Duress code alarms cannot be canceled. Be sure to never confuse your duress code with your regular access code.

CHANGING YOUR PRIMARY ACCESS CODE

When to Use:

- When you feel your code is known by someone you do not want to have access.

What to Do:



1. Press ***+CODE+#+8** from any TouchTone phone (off hook), and listen for one siren BEEP.
2. Immediately enter your new access code. The system announces your new code "NNNN OK."

CAUTION: Avoid using the number 6 in your primary and temporary access codes. Since the system uses 6 to bypass sensors, it could interfere with normal system arming when detected as part of your access code.

3. Listen carefully to the code announcement to be sure it is correct.

Example: your present access code is 1234 and you want to change it to 5432. Press: ***+1234+#+8+5432**.



For the Alphanumeric Touchpad:

1. Press **CODE + STATUS + 8**. The display will read ACCESS CODE _ _ _ _.
2. Enter your new code. The touchpad displays: ACCESS CODE OK.

What Will Happen:

- The sirens beep once for acknowledgment.
- Your telephone announces "5432 OK."

Notes:

- Don't forget your code. If you do forget, a service call may be necessary.
- We do not recommend using 1234 or 1111 as the access code.
- **IMPORTANT!** 7777, 8888, and 9999 cannot be used as access codes. These are panic codes in the security system and cannot be changed.

CHANGING YOUR TEMPORARY ACCESS CODE

When to Use:

- When you need to give a temporary access code to a neighbor or service person.

Note: Always begin this step by entering your primary access code, then your new temporary access code.

What to Do:



1. Press ***C O D E + # + 7** from any TouchTone phone (off hook), and listen for one siren BEEP.
 2. Immediately enter your new temporary access code. The system announces your new code "N N N OK," and sirens beep once.
 - 3 Listen carefully to the code announcement to be sure it is correct.
- Example: your primary access code is 1234 and you want to change your temporary access code to 5432. Press:
*** + 1 2 3 4 + # + 7 + 5 4 3 2.**



For Alphanumeric Touchpads:

1. Press **C O D E + STATUS + 7**. The display reads TEMP CODE _ _ _ _.
2. Enter your new temporary access code. The touchpad displays TEMP CODE OK.

What Will Happen:

- The sirens beep once for acknowledgment.
- Your telephone announces "5432 OK."

Notes:

- Don't forget your code. If you do forget, a service call may be necessary.
- We do not recommend using 1234 or 1111 as the access code.
- **IMPORTANT!** 7777, 8888, and 9999 cannot be used as access codes. These are panic codes in the security system and cannot be changed.
- This command cannot be used to change the primary access code.
- The temporary access code cannot DIRECT BYPASS sensors.

SECTION 4

Things You Should Know

This section includes a Glossary of Terms, Limitations of Your System, and FCC Information.

Glossary of Terms

, #.** One of these buttons (normally **), found on your TouchTone phones, always precedes any command you issue to the system. If you don't press ***** or **#** first, you can use your phone normally and the system ignores what you dial.

C O D E. Represents a unique sequence of four numbers that you select or program as your personal code for operating your security system.

Alarm Memory. Feature that saves temporarily, sensor alarm information from a single armed period. Alarm Memory can be accessed with the system in levels 1, 2, or 3, or immediately after disarming the system to level 1. Alarm Memory is cleared automatically when the arming level is changed.

Arming Levels. These determine which sensors are active during the armed period, as described here:

- **Level 1 (OFF).** All intrusion sensors are off except for special sensors monitoring wall safes, jewelry boxes, etc. Panic buttons, fire sensors, and environmental sensors are on in level 1 and in all other levels. Level 1 is also selected to stop or cancel any alarm.
- **Level 2 (STAY).** All perimeter intrusion sensors are on, but interior sensors are not, permitting people in the building freedom to move about freely without setting off an alarm.
- **Level 3 (AWAY).** All perimeter and interior intrusion sensors are on, as well as fire and other sensors. This level is typically used when all occupants are away from the building.

Automatic Test Features. Built-in features that monitor continuously, system status such as Panel AC power, backup battery condition, phone line presence, and communication from sensors. If a problem occurs, the sirens alert you by sounding trouble beeps.

Backup Battery. Powers the Panel in the event of an AC power failure.

Bypass. Feature that lets you turn off selected sensors during the current armed period or level.

Chime. Feature that lets you monitor the opening of perimeter doors and windows with sensors (in level 1 only). Sirens beep twice whenever a protected door or window is opened.

COMMAND Button. Feature included on Alphanumeric and Wireless Touchpads, that provides a quick method for arming the system without entering your regular access code. You can also dim your alphanumeric display by pressing and holding this button, until the desired brightness level is achieved.

Detailed Full Status Announcement. With your access code, you can get a detailed status announcement, using a local or remote TouchTone phone. The detailed full status announcement includes the condition of the AC power and the temperature in the building, if the optional Energy Saver Module is installed.

Duress Code. The duress code is a special four-digit code which, when used, secretly and silently notifies the monitoring service of an emergency.

Energy Saver Feature. Optional feature that lets you override your premises thermostat. This feature is used to save energy by lowering your furnace (or raising your air-conditioning) temperature setting while you are away or in bed.

Entry Delay. The amount of time (programmed by your security consultant) allowed for you to enter the premises using a designated door and disarm the system, before an alarm occurs.

Entry Delay Beeps. Interior siren sounds that remind you to disarm the system before an alarm occurs, when entering the armed premises.

Exit Delay. The amount of time (programmed by your security consultant) allowed for you to leave the premises using a designated door, after arming the system, without causing an alarm.

Exit Delay Beeps. Interior siren sounds at the beginning and end of the entry delay time, after arming the system to level 2 or 3. If leaving the premises after arming, you must do so before you hear the second round of beeps.

Light Control. Optional feature that automatically turns on selected lights during entry and exit delays, and in the event of any alarm. These lights remain on until the alarm is cleared. Also, you can manually turn these lights on and off by entering CODE + 0, COMMAND + 0, or BYPASS + BYPASS.

Monitoring Service. A 24-hour alarm monitoring facility staffed with trained personnel who receive reports from your system and dispatch the proper authorities when necessary. Your system can report to a monitoring service, using your regular telephone line.

Panic Alarm Buttons. Allow you to manually activate alarms based on the conditions. Fire, Police, and Auxiliary alarm buttons are available on all TouchTone telephones and the Alphanumeric Touchpad. A police alarm is available on the Wireless Touchpad.

Phone Test. A built-in test that lets you verify your system reports to the monitoring service (when the proper hardware is installed).

Protest Beeps. A sequence of six beeps (two short beeps - 3 times) that indicate one or more protected doors or windows are open, when you attempt arming the system to level 2 or 3. You must close all protected doors and windows to stop the beeps, then rearm the system.

Sensor Test. Lets you verify that the Panel is receiving signals from all sensors.

Short Status Announcement. A voice message you hear over your TouchTone phone or interior speakers, after entering the short status command. The message informs you of your system's current status, including the current arming level, any open sensors, and any trouble messages.

Special Sensors. Intrusion sensors that are on 24 hours a day and monitor property such as a jewelry case, gun cabinet, storage locker, etc. These sensors must first be bypassed before attempting access to the protected items.

Status Beeps. Interior siren sounds indicate arming level changes, system trouble, chime, etc.

Trouble Condition. A series of six rapid beeps from interior sirens every minute that indicate the Panel has detected a problem. A voice message describing the condition can be heard by picking up a telephone. Also, pressing the STATUS button on an Alphanumeric Touchpad displays the trouble condition. If your system is monitored, the monitoring service is also notified. (Some trouble reports to the monitoring service may be delayed up to 10 hours.) When a trouble condition exists, contact your installing security consultant's service department.

FIRE SAFETY

1. Draw a floor plan of your premises in the space provided, on the following page. Make sure to show the exits from each room (two exits per room are recommended).
2. Hold a discussion on household emergency procedures which includes the following:
 - A. Status of bedroom doors.
 - B. Familiarity with alarm system.
 - C. Testing doors during a fire and the use of alternate escape routes if too hot to touch.
 - D. Crawling and holding breath.
 - E. Escape fast! Do Not stop to pack!
 - F. Meet at a designated outdoor location.
 - G. Emphasize that no one is to return to a burning house.
 - H. Notify fire department from a neighbor's phone.
3. Periodic rehearsals should be conducted.
4. If you return to premises and hear sirens, do not enter the premises. Call for the fire or police department based on the type of alarm sound you hear.

NOTE: Ceiling mounted smoke detectors should be located in the center of the room or hall, or not less than 4 inches from any wall. When the detector is mounted on a wall, the top of the detector should be 4 to 12 inches from the ceiling.

NOTE: Do not install smoke detectors where normal ambient temperatures are above 100° F or below 40° F. Also do not locate detectors in front of AC/Heat registers or other locations where normal air circulation will keep smoke from entering the detector.

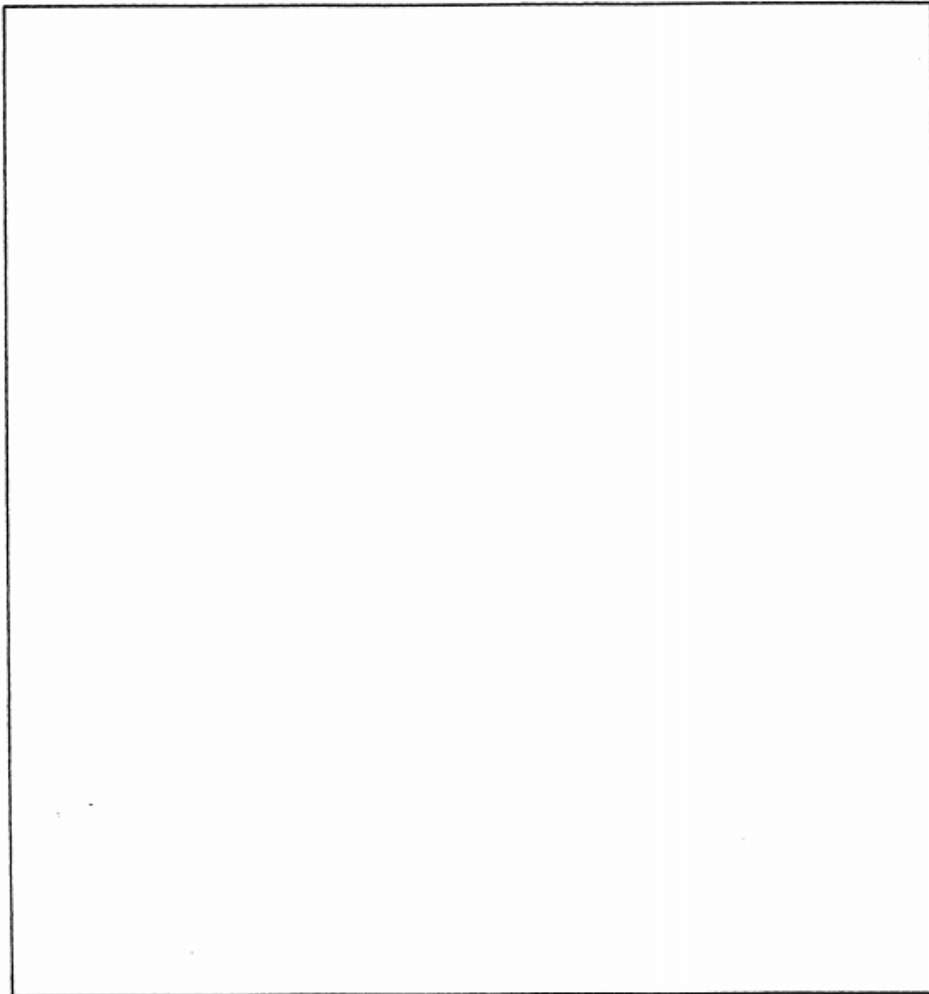
NOTE: Additional information on household fire warning is available at nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Request Standard No. NFPA74.

Smoke detectors should be located between the sleeping area and the rest of the family living unit.

In family living units with more than one sleeping area, a smoke detector should be located at each area.

A smoke detector should be located on each level.

DRAW YOUR PREMISES FLOOR PLAN



ALARM SYSTEM LIMITATIONS

Not even the most advanced alarm system can guarantee protection against burglary, fire, and other emergencies. All alarm systems are subject to possible compromise or failure-to-warn for a variety of reasons:

- If sirens or speakers are not placed within hearing range of persons sleeping or in remote parts of the house. Warning devices may not be heard if they are placed behind doors or other obstacles, or on levels distant from areas frequently occupied by residents.
- If intruders gain access through unprotected points of entry or areas where sensors have been bypassed.
- If intruders have the technical means of bypassing, jamming, or disconnecting all or part of the system.
- If freeze, water, or other environmental sensors are not located in an area where they can detect an environmental problem.
- If power to sensors is discontinued or inadequate. Devices will not work if the AC power supply is off and batteries are either missing, dead, or improperly installed.
- If smoke does not reach the sensor. Smoke sensors cannot detect smoke in chimneys, in walls or roofs, or smoke blocked by a closed door. They may not detect smoke or fire on a level of the building different from the one on which they are located. Sensors may not be able to warn in time about fires started by smoking in bed, explosions, improper storage of flammables, overloaded electrical circuits, or other types of hazardous conditions.
- If transmission lines are out of service. Transmissions from the Panel to a monitoring service cannot be made over lines that are out of service. Telephone lines are also vulnerable to compromise by any of several means.

Inadequate maintenance is the most common cause of alarm failure. Therefore, test your system at least once per week to be sure sensors, sirens, the communicator, etc., are all working properly.

Although having an alarm system may make you eligible for reduced insurance premiums, the system is no substitute for insurance. Warning devices cannot compensate you for loss of life or property.

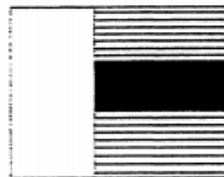
IMPORTANT: *The security system shall not be set or programmed to place a call to a police station number that has not been specifically assigned by that police station for such service.*

SECTION 5

Reference

The Control Panel (Panel) (60-435)

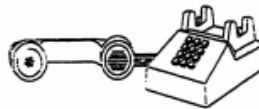
The Panel contains the electronic microcomputer circuits that control your system. It receives information from sensors, placed strategically throughout the building and responds to commands from TouchTone phones or touchpads. It sounds sirens and siren speakers, produces voice announcements over your phones, and can report alarms to the monitoring service. The green power light visible on the front indicates the status of AC power: On = AC power on; flashing = AC power off, Panel running on battery; Off = Panel has suffered a major failure or the backup battery is dead, contact your security consultant immediately.



The Panel is typically mounted in a secure area out of normal view as there are no controls or indicators on the unit, which are essential for day-to-day operation. The cabinet is equipped with tamper switch to prevent unauthorized tampering. The unit is powered by a plug-in external transformer, which means there are no hazardous voltages in the cabinet or elsewhere in the system. This Panel is required for use in an Underwriters Laboratories Listed household Fire and Burglary Warning System.

TouchTone Telephones

The security system can be operated from most TouchTone telephones. Simply press the buttons on your TouchTone phones in a special sequence to turn on or off most system features. You also hear voice announcements concerning your system from your phone's ear piece.



Only TouchTone phones should be used with the system. If you hear a tone each time a dialing button is pressed, you have a TouchTone phone. Some push-button dial phones are pulse dialers, and you hear a series of faint clicks instead of tones when you dial. The security system does not interfere with normal use of your phones with two exceptions: (1) If your system detects a trouble condition, the system makes a brief announcement describing the problem, when you are about to place an outgoing call. This announcement is repeated at least once a day, again when you place a call, until the trouble is fixed. (2) If an alarm or test is in progress and the Panel is reporting to the monitoring service, all telephones are temporarily disabled and any calls in progress are disconnected.

SIRENS

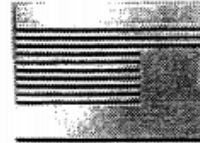
Interior Sirens

Interior Sirens are small, permanently mounted sounding devices.

The Wireless Interior Siren (WIS) is a siren/annunciator. This siren uses your household electrical wiring. The siren is simply plugged into an AC outlet with no wires leading back to the Panel. The WIS requires a special transformer that your security consultant can install. This siren contains a 9-volt backup battery for operation during AC power failures.

The Interior Siren/Piezo produces both low-volume status tones and high-level alarm sounds. It is typically located in areas such as hallways where siren sounds need to be heard in bedrooms.

The Interior Speaker/Piezo produces low-volume status tones and voice alarm messages throughout the house.



Exterior Siren*

The security system has several loud sirens that may be placed outside (sometimes inside) of your building. When activated, they emit a loud siren sound. The noise usually frightens an intruder, as well as alerts neighbors.



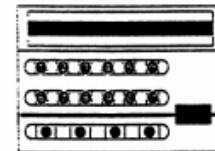
TOUCHPADS

In addition to operating your security system with TouchTone phones, you have your choice of four different touchpads. You can have up to 4 wireless touchpads in any combination or several Alphanumeric Touchpads in your system.

Wireless Touchpads (60-348, 60-453, 60-607)

Three Wireless Touchpad models are available: wall-mount, handheld, and keychain. All can be used to turn the system on and off, as well as activate auxiliary (panic) alarms.

Note: Wireless Touchpads cannot arm the system if a trouble condition exists. You must use a TouchTone phone or the Alphanumeric Touchpad.



Wireless Wall Mount
Touchpad

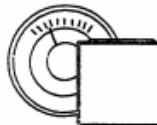
Hardwire Alphanumeric Touchpad Display (60-248)

The Alphanumeric Touchpad provides you with plain English messages on the status of your security system. For each open sensor, the Alphanumeric Touchpad displays a message identifying that sensor. The name of each sensor can be custom programmed by your installing security consultant.

* Not investigated by U.L.

ENERGY SAVER MODULE (60-438)

This optional device contains a temperature sensor and is wired to the Panel and your thermostat. You can set high- or low-temperature limits in the system's memory, using a TouchTone phone or Alphanumeric Touchpad. When the Energy Saver is turned on, it replaces your thermostat and the preset temperature becomes your new thermostat setting. You can turn the Energy Saver feature on or off with a simple command when you arm or disarm your system. You can also control the Energy Saver feature from an off-premises telephone.



In addition, the unit contains a freeze warning device, normally set at 42 degrees. In colder climates, this feature alerts the monitoring service of a furnace failure. You can even call your security system from a remote phone and have the current temperature announced by requesting the detailed status report.

DETECTION SENSORS

Numerous sensors are compatible with this security system since the system accepts both wired and wireless sensors. Your security consultant can suggest the sensors best suited for your security needs. The following descriptions are the more popular wireless sensors used with this system.

Door/Window Sensor (60-362)

This two-piece sensor detects any opening of doors, windows, cabinets, etc. It consists of a battery-powered radio transmitter and a magnet. The units are typically mounted on doors and windows. When the door or window is opened, an "open" or alarm signal is sent to the Panel. Replacement batteries are SAFT LS-3 or Tadiran TL5151.



Motion Sensors (60-511)*

Motion Sensors detect movement of body heat within their detection pattern. They are used indoors only and are usually placed in an area where an intruder would likely go after gaining entry. The Motion Sensors contain a built-in radio transmitter to alert the Panel when an intrusion is detected.



Smoke Sensors (60-506)

Smoke Sensors should also be a part of your security system. In a premises, it is desirable to have at least one on each level of the premises. It is particularly important to have one near all bedroom areas. For replacement batteries, refer to the instructions provided with the smoke detector.

* Not investigated by U.L.



Shock Sensors (60-461)*

These sensors are designed to detect glass breakage. A Shock Sensor is mounted on the frame of a door or window.

**Glass Guard Sensors (60-462)***

These sensors are designed to be mounted on a glass surface to detect glass breakage.

Portable Panic Sensors (60-457)

Portable Panic Sensors are designed to be carried with you to any location in your premises. When activated, these sensors send a signal for help in the event of an emergency. Replacement batteries are SAFT LS-3 or Tadiran TL5151.

**Fire Pull Stations (60-456)***

Fire Pull Stations are manually activated sensors that can be wall mounted in areas where additional fire detection is necessary or required. They can be mounted in the kitchen, garage, etc.

Freeze Sensors (60-504)*

Freeze Sensors alert you when the temperature drops below 42° F.

Rate-of-Rise (heat) Sensors (60-460)*

Another type of fire detection sensor, a Rate-of-Rise Sensor detects the temperature rate (increase) of a rapidly growing fire. This sensor is typically located in kitchens, utility rooms, or garages.

**Sound Sensors (60-459)***

Sound Sensors are designed to be mounted in areas where glass break detection is required. These sensors respond to the sound (frequency) of breaking of glass.



* Not investigated by U.L.

SENSOR LOCATION CHART

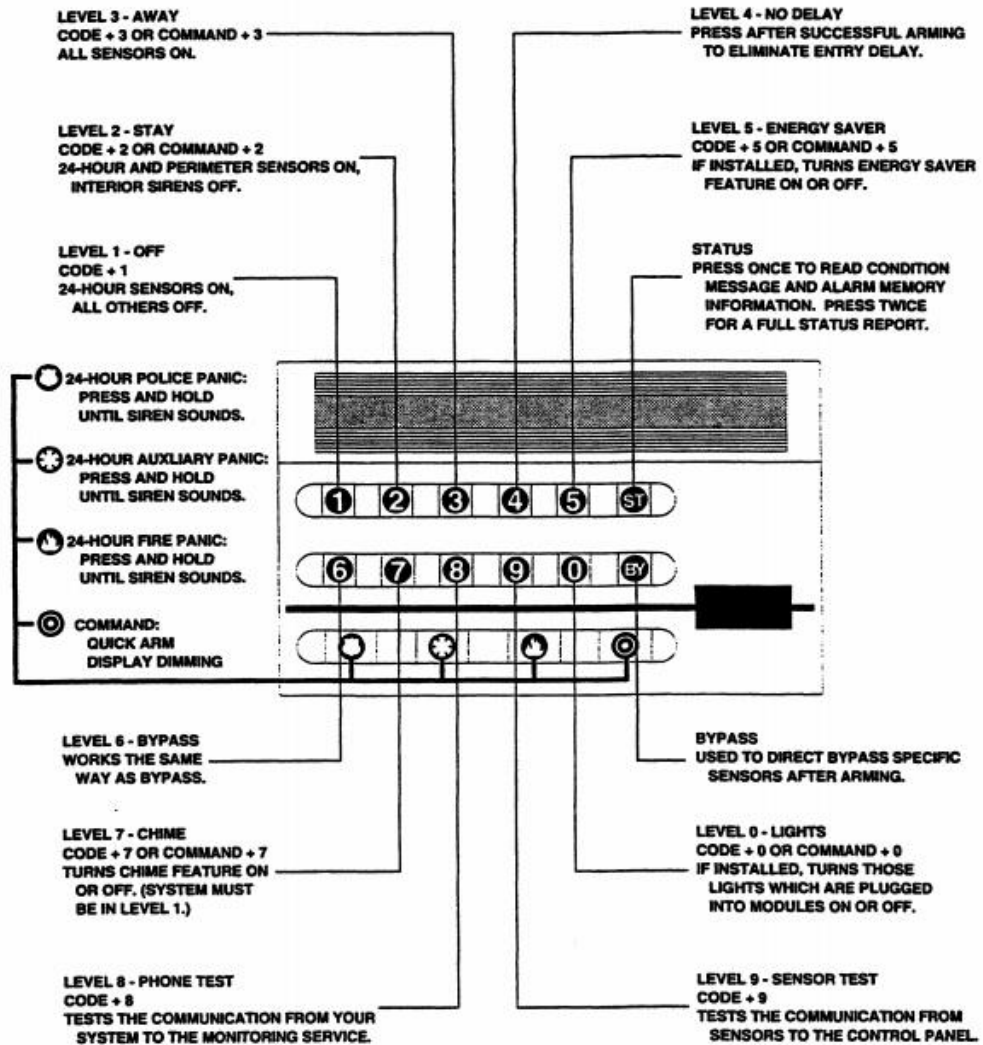
Sensor Number	Location
01	_____
02	_____
03	_____
04	_____
05	_____
06	_____
07	_____
08	_____
09	_____
10	_____
11	_____
12	_____
13	_____
14	_____
15	_____
16	_____
17	_____
18	_____
19	_____
20	_____

21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

COMMAND SUMMARY CHART

<u>COMMAND</u>	<u>TOUCHPAD</u>	<u>PHONE</u>
Short Status	STATUS	* #
Detailed Status	STATUS STATUS	*** or * CODE # 1
Alarm Memory	CODE STATUS 5	* CODE # 5
	COMMAND STATUS	
Police Panic	Police Button	***** or *88888
Fire Panic	Fire Button	*77777
Auxiliary Panic	Auxiliary Button	*99999
Disarm/Alarm Cancel	CODE 1	* CODE 1
Stay	CODE 2	* CODE 2
Away	CODE 3	* CODE 3
Bypass	CODE (2 or 3) 6	* CODE (2 or 3) 6
Instant	CODE (2 or 3) 4	* CODE (2 or 3) 4
Direct bypass	CODE 6 nn	* CODE 6 nn
Chime	CODE 7 or COMMAND 7	* CODE 7
Light Control	CODE 0, COMMAND 0	* CODE 0
	BYPASS BYPASS, BYPASS n (n= 1-9)	
Energy Saver		
ON/OFF	CODE 5 or COMMAND 5	* CODE 5
Low temp set	CODE STATUS 3	* CODE # 3
High temp set	CODE STATUS 4	* CODE # 4
*/# Disable		* CODE # 6
Changing Access Codes		
Primary Code	CODE STATUS 8 NEW CODE	* CODE # 8 NEW CODE
Temporary Code	CODE STATUS 7 NEW CODE	* CODE # 7 NEW CODE
Central Station Test	CODE 8	* CODE 8
Sensor Test	CODE 9	* CODE 9

QUICK REFERENCE



HARDWIRE TOUCHPAD LIGHTING

Display Dimming

Press and hold the COMMAND button and the display dims from 100% to 75%, 50%, 25% or blackout. As long as the COMMAND button is pressed the dim levels continue to cycle. Once you see the desired level, quickly release the COMMAND button.

Once a dim level is set, pressing any button illuminates the display to full brightness. After 15 seconds of no touchpad activity, the display returns to the set dimmed level.

During an alarm condition, the display automatically goes to full brightness. Once the system is disarmed and there is 15 seconds of no touchpad activity, the display returns to the set dimmed level.

The Entry Delay time and a level 9 Sensor Test also forces the display to full brightness. After disarming the system and no touchpad activity for 15 seconds, the display returns to the set dimmed level.

Backlit Buttons

The buttons on the touchpad are backlit with a soft red light for easy night viewing. After 15 seconds of no touchpad activity, this lighting goes out. Press any key to illuminate the buttons.

Other Display Messages

The following list of display messages may appear to alert you of certain conditions. Messages listed with an asterisk (*) are optional features and may not pertain to your system. Check with your installing security consultant about the setup of your system regarding these messages.

00 BUDDY REPORT*	87 FORCED ARMED*
01 SENSOR IN RANGE	90 AC FAILURE*
77 TOUCHPAD TAMPER	91 LOW PANEL BATTERY
80 FIRE ALARM	92 PANEL TAMPER*
81 POLICE ALARM	93 AUTO PHONE TEST*
82 AUXILIARY ALARM	94 RECEIVER TROUBLE
83 PHONE TEST	95 PANEL BACK IN SERVICE
84 OPENING REPORT*	96 FAILURE TO COMMUNICATE
85 CLOSING REPORT*	97 NO PHONE LINE

FCC AND TELEPHONE CONSIDERATIONS

Radio and Television Interference

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 Subpart J of 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 cause interference to radio or television reception, which can be determined by turning the unit 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.
Re-orient the receiving antenna until interference is reduced or eliminated.
Move the receiver away from the control/communicator.
Move the antenna leads away from any wire runs to the control/communicator.
Plug the control/communicator into a different outlet so that it and the receiver are on different branch circuits.

If necessary, the user should consult the security consultant or an experienced radio/television technician for additional suggestions. The user might find the following booklet, prepared by the Federal Communications Commission, helpful.

"How to Identify and Resolve Radio-TV Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

Telephone Operational Problems

In the event of telephone operational problems, disconnect the control/communicator by removing the plug from the RJ-31X jack. We recommend your certified installer demonstrate disconnecting the phones on installation of the system. Do not disconnect the telephone connection inside the control/communicator. Doing so will result in the loss of your telephone lines. If your regular telephone works correctly after the control/communicator has been disconnected from the telephone lines, the control/communicator has a problem and should be returned for repair.

If, upon disconnection of the control/communicator, there is still a problem on your line, notify the Telephone Company that they have a problem and request prompt repair service. The user may not, in any circumstances (in or out of warranty) attempt any service or repairs on the system. It must be returned to the factory or an authorized service agency for all repairs.

FCC Part 68 Notice

This equipment complies with Part 68 of the FCC rules. On the FCC label affixed to this equipment is the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all those devices ring when the number is called. In most, but not all areas, the sum of the REN's of all the devices connected to the line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your telephone equipment causes harm to the telephone network, the Telephone Company may disconnect your service temporarily. If possible, they will notify you in advance. If the advanced notice is not practical, you will be notified as soon as possible. You will be informed of your rights to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact ITI for information on obtaining service or repair. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

NOTES

Security
Automation
Fire Protection
Access Control



WIRELESS

INTERACTIVE TECHNOLOGIES, INC.
2266 SECOND STREET NORTH
NORTH SAINT PAUL, MN 55109-2900
T: 800/777-1415
F: 651/779-4890
WEBSITE: www.ititechnologies.com

©Interactive Technologies, Inc. 1995
Specifications subject to change.
Some features are optional.
Document Number: 46-503-02