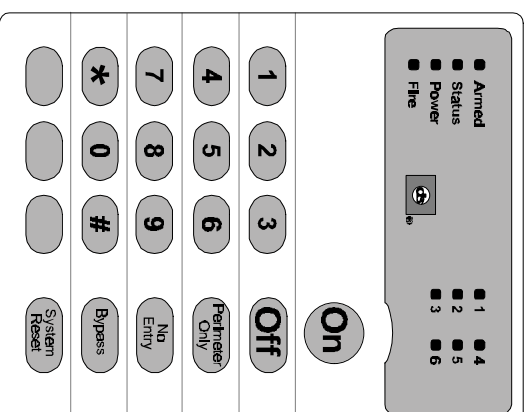
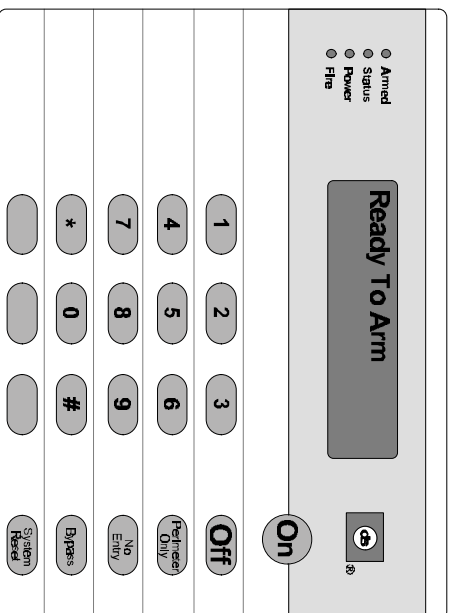


Using Your DS7060 Control/Communicator



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This system includes a telephone line seizure feature. The system may be programmed to communicate with a central monitoring station to report system events. You will not be able to use your phone while the system is communicating with the central monitoring station. In the unlikely event that the central station is not able to receive the report, your phone may be unavailable for up to 20 minutes while the panel makes additional communications attempts.



Keypad Quick Reference Guide

Turning On (arming) your System

Normal Arming
PIN + [On]
Perimeter Arming, no entry delay
PIN + [No Entry] [Perimeter Only]
Perimeter Arming, with entry delay
PIN + [Perimeter Only]
Maximum Security Arming
PIN + [No Entry] [On]
Force Arming
PIN + Arming Sequence + [Bypass]
Zone Bypass
PIN + [Bypass] followed by the Zone number
Custom Arm
PIN + [#] [4]
Quick Arm
[#] + [On]

Turning Off (disarming) your System

PIN + [Off]

Commands for other System Features

Chime Mode
PIN + [#] [7]
Zone Test
PIN + [#] [8] [1]
Read Alarm History
PIN + [#] [8] [9]
Battery Test
PIN + [System Reset]
Communicator Test
PIN + [#] [8] [2]
Fire Reset
PIN + [System Reset]
Fire Trouble
PIN + [Off] to silence, PIN + [System Reset] to clear
Remote Program Dial Out
PIN + [#] [8] [3]
Remote Program Answer
PIN + [#] [8] [6]
Local Battery/Sounder Test
PIN + [#] [8] [5]
Error Display
PIN + [#] [8] [7]
Error Display Reset
PIN + [System Reset]
Clear Zone Bypass
PIN + [Bypass] [*] to clear
Guest Code Enable
PIN + [#] [8] [4]

NOTE: Examples are shown in Commercial Mode but are valid for any mode.

1.1 Understanding the DS7443, DS7445, and DS7447 Keypads

The DS7443 is a 6 zone LED keypad: its LEDs represent the zones of the system.

The DS7445 is an 8 zone LED keypad: its LEDs represent the zones of the system (LEDs for zones 7 and 8 are not used).

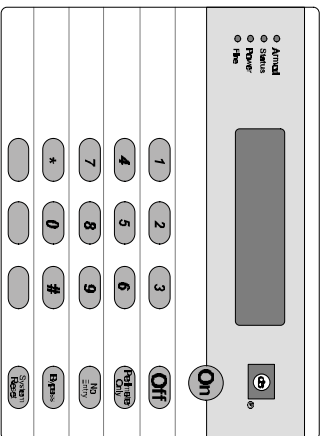
The DS7447 is an alpha-numeric LCD keypad.

All three keypads display information on various control panel functions. A built-in sounder is used to announce keystroke entries and as an interior warning device.

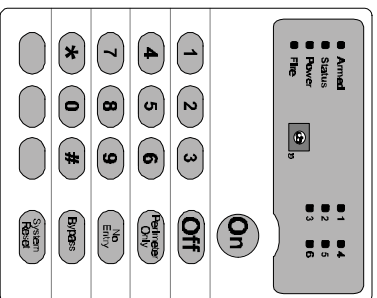
Volume Control (DS7445 and DS7447 only): The keypad sounder volume can be adjusted using the [1] and [4] keys along with the [*] key. Hold the [*] key while pressing the [1] key to increase the volume or the [4] key to decrease the volume. The volume adjustment does not affect the volume during an alarm.

Backlight Control (DS7447 only): The display backlight intensity can be adjusted using the [3] and [6] keys along with the [*] key. Hold the [*] key while pressing the [3] key to increase the brightness or the [6] key to decrease the brightness.

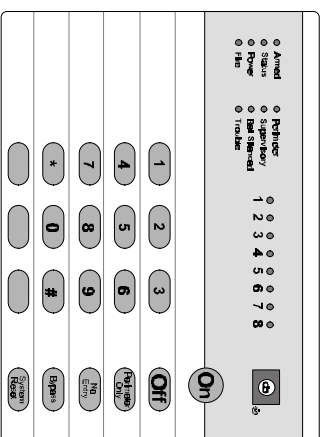
NOTE: After the backlight and volume are adjusted, you must arm, then disarm the system once to store this information in the control panel. These settings will be lost in the event of total power failure to the panel.



DS7447 KEYPAD



DS7443 KEYPAD



DS7445 KEYPAD

This chart will help you understand what each light/LED represents.

LIGHT	OFF	FLASHING	ON
Armed (red)	The control panel is disarmed.	An exit delay is in progress or an alarm has occurred.	The control panel is armed and no alarms have occurred.
Status (green)	One or more zones are not ready to arm.	One or more zones are bypassed.	All zones are ready to arm.
Power (green)	The control panel has lost power. No AC or battery.	Control panel problems. See Section 5.17, Error Displays.	Normal operation.
Fire (red)	There are no fire alarms.	A fire zone is in alarm.	A fire trouble condition exists.
Perimeter* (yellow)	The perimeter is not armed.	This light will not flash.	The perimeter is armed.
Supervisory* (yellow)	This light will not be used by the DS7060.	Not used.	Not used.
Bell Silenced* (yellow)	The bells do not need to be or have not been silenced.	This light will not flash.	The bells have been silenced. To clear, enter Fire Reset command.
Trouble* (yellow)	There are no trouble conditions.	This light will not flash.	A trouble condition exists.
Zone LEDs** (red)	There are no zone alarms.	A zone (1-6) is in alarm.	A zone (1-6) is not ready to arm or if a fire zone, a trouble condition exists.

*= This light is present on the DS7445 only.

**= This light is on the DS7443 and DS7445.

1.2 Personal Identification Numbers

The Personal Identification Number (PIN) is the 4-digit code users enter at the keypad to gain access to the system. A PIN may be assigned to each User Number 001-015. The User Number identifies each person using the system. There are 15 possible User Numbers (001-015).

Your system may have up to 15 different PINs, each 4 digits long. **Each User Number can have only one PIN.** Attempting to assign the same PIN to multiple User Numbers will result in the three-beep error tone, and the change will not be made.

User Number 001 is designated as a **Master Code**. It can be used to add, delete, read back, or change other PINs.

User Number 001 is shipped from the factory with the sequence of 1234. **This code should be changed to one of your personal preference.** PINs should never be programmed with common sequences such as 1111 or 2468 because they are easily violated.

Adding a PIN

The following chart will guide you through the steps necessary to add or change a PIN. It is recommended that this procedure be performed at a DS7447 keypad. No visual cues will be given from a DS7443 or DS7445 keypad.

STEPS TO CHANGE A PIN	COMMAND SEQUENCE	IF ACCEPTED, THE DISPLAY READS
#1 Enter the Master Code Programming Mode	[Master Code] + [#] [0]	"0 Change PIN" (display will scroll to this)
#2 Enter a "0"	"0"	"Enter User No." (001 . . 015)
#3 Enter the User Number	[0] [0] [1] through [0] [1] [5]	"Enter PIN"
#4 Enter the PIN	Any 4 digits (Each user must have a different PIN).	Enter PIN Again End with #
#5 Enter the PIN again followed by the [#] key.	PIN (same 4 digits as above) then [#]	A long beep will sound to signify acceptance of the new PIN.

NOTE: Users 014 and 015 may be used for Duress and Guest Codes. See Sections 1.20 and 1.21.

NOTE: You cannot read back User PIN numbers. You should keep a separate list for future reference.

Removing a PIN

To remove a PIN enter a [Master Code] [#] [0], the User Number of the PIN to be canceled, and then [#] again. *User Number 001 can not be canceled.* See Sections 1.20 and 1.21 for special uses for User Number 14 and 15 PINs.

1.3 Setting the Time

This chart explains the procedure for changing the time at the keypad.
 It is recommended that this procedure be performed at a DS7447 keypad.
 No visual cues will be given from a DS7443 or DS7445 keypad.

Steps to Change the Time	Command Sequence	If Accepted, the Display Reads
# 1. Enter the Master Code Programming Mode.	[Master Code] + [#] [0]	"6 Change Time" (display will scroll to this)
# 2. Enter a 6.	[6]	"Enter Day" (1..7)
# 3. Enter the day.	[1] through [7] Sunday Saturday	"Enter Time." (0100..1259)
# 4. Enter the Time. (Hour and minute)	[0] [1] [0] [0] through [1] [2] [5] [9]	"Enter AM/PM." (4/6) End with #
# 5. Enter AM or PM.	[4] [#] or [6] [#] (4=AM, 6=PM)	"Day - Time" A long beep signifies acceptance.

Note: Entering the command sequence [Master Code] [#] [0] [6] [#] will cause the DS7447 keypad to read back the time.

The control panel will exit you from the master code programming mode after about 15 seconds without a keystroke.

1.4 Setting the Date

This chart explains the procedure for changing the date at the keypad.

It is recommended that this procedure be performed at a DS7447 keypad.
No visual cues will be given from a DS7443 or DS7445 keypad.

Steps to Change the Date	Command Sequence	If Accepted, the Display Reads
# 1. Enter the Master Code Programming Mode.	[Master Code] + [#] [0]	"2 Change Date" (display will scroll to this)
# 2. Enter a 2.	[2]	"Enter Month" (01...12)
# 3. Enter the Month.	[0] [1] through [1] [2] January December	"Enter Day." (01...31)
# 4. Enter the Day.	[0] [1] through [3] [1]	"Enter Year." (XX) End with #
# 5. Enter the Year.	The last two digits of the year, followed by the [#] key.	"Month, Day, Year" A long beep signifies acceptance.

Note: Entering the command sequence [Master Code] [#] [0] [2] [#] will cause the DS7447 keypad to read back the date.

The control panel will exit you from the master code programming mode after about 15 seconds without a keystroke.

1.5 Turning ON (arming) the System

The green Status light must be on steady and no zone lights are displayed on the DS7443 or DS7445 keypad. The DS7447 display must read "Ready To Arm" in order to arm the system with one of these commands.

Exception: It is still possible to "Perimeter Arm" or "Custom Arm" the system if the Perimeter or Custom arm zones are in their normal condition, even if the green Status light is off.

If the green Status light is not on, or zone lights are displayed on the DS7443 or DS7445 keypad, or if the DS7447's display is reading "**Not Ready**," then see Section 1.9 Force Arming or Section 1.11 Zone Bypass for other ways to arm the system.

NOTE: In commercial burglar applications for U. L. Listed Requirements, a ring-back indication and bell test should be heard after arming (closing). If not heard, call for service.

NOTE: If the system has invisible zones that are not ready, they will be displayed during the arming sequence. The display of invisible zones will remain on until the zone is cleared or bypassed.

The chart below explains the five normal ways of arming the system.

TYPE OF ARMING DESIRED	COMMAND SEQUENCE	WHAT WILL HAPPEN	WHAT TO DO
<p>Normal Arming No one left on the premises. An entry/exit delay is in effect.</p>	<p>Commercial Mode PIN + [On] Residential Mode [#] + [On]</p>	<ul style="list-style-type: none"> The red Armed Light will begin to flash. The green Status light will turn off. "Armed" will be displayed (DS7447). "Exit Now" will display (DS7447) during the exit delay interval. A single beep will sound. The red Armed light will turn on steady after the exit delay interval. 	<p>Exit during the exit delay interval.</p>
<p>Perimeter Instant Arming Someone still on the premises. There is NO entry delay in effect.</p>	<p>Commercial Mode PIN + [No Entry] + [Perimeter Only] Residential Mode [#] + [No Entry] + [Perimeter Only]</p>	<ul style="list-style-type: none"> The red Armed Light will begin to flash. "Perimeter Inst." will be displayed (DS7447). "Exit Now" will display (DS7447) during the exit delay interval. A single beep will sound. The red Armed light will turn on steady after the exit delay interval. The yellow Perimeter light (DS7443/DS7445) will turn on steady. Only exterior protection zones will be armed. 	<p>Move freely around the interior.</p>
<p>Perimeter Arming Someone still on the premises. An entry/exit delay is in effect.</p>	<p>Commercial Mode PIN + [Perimeter Only] Residential Mode [#] + [Perimeter Only]</p>	<ul style="list-style-type: none"> The red Armed Light will begin to flash. "Perimeter On" will be displayed (DS7447). "Exit Now" will display (DS7447) during the exit delay interval. A single beep will sound. The red Armed light will turn on steady after the exit delay interval. The yellow Perimeter light (DS7443/DS7445) will turn on steady. Only exterior protection zones will be armed. 	<p>Move freely around the interior.</p>
<p>Custom Arming (if programmed) Someone still on the premises. An entry/exit delay is in effect.</p>	<p>Commercial Mode PIN + [#] + [4] Residential Mode [#] + [4]</p>	<ul style="list-style-type: none"> The red Armed Light will begin to flash. "On Parlat" will be displayed (DS7447). "Exit Now" will display (DS7447) during the exit delay interval. A single beep will sound. The red Armed light will turn on steady after the exit delay interval. Only the custom protection zones will be armed. Only your installer company can change which zones are custom armed. 	<p>Do not violate any of the custom zones</p>
<p>Maximum Security Arming No one left on the premises. There is NO entry delay in effect. An alarm WILL occur upon entry.</p>	<p>Commercial Mode PIN + [No Entry] [On] Residential Mode [#] + [No Entry] + [On]</p>	<ul style="list-style-type: none"> The red Armed Light will begin to flash. The green Status light will turn off. "Armed Instant" will be displayed (DS7447). "Exit Now" will display (DS7447) during the exit delay interval. A single beep will sound. The red Armed light will turn on steady after the exit delay interval. 	<p>Exit during the exit delay interval. CAUTION: Violating any zone after the exit delay interval will cause an instant alarm.</p>

1.6 Quick Arming the System

If Quick Arming is not used, a PIN must be entered at the beginning of all arming command sequences. When Quick Arming is used, the following shortcuts are available. Ask your installation company if you desire this feature.

QUICK ARMING COMMAND SEQUENCE	TYPE OF ARMING
[#] + [On]	Normal Arming
[#] + [No Entry] + [Perimeter Only]	Perimeter Instant Arming - no entry delay
[#] + [Perimeter Only]	Perimeter Arming - entry/exit delay
[#] + [No Entry] + [On]	Maximum Security Arming

1.7 Easy Exit

If the system is armed and there have been no zones violated, then you can reenter a Quick Arm Command without first disarming the system. This allows you to change the arming level or to restart the exit delay so you can exit through an entry/exit zone. Easy Exit is disabled by default. Ask your installation company if you desire this feature.

1.8 Turning OFF (disarming) the System/Silencing Alarms

Please read Section 1.22 Emergency Procedures prior to being confronted with an emergency event.

If you have entered the building through a perimeter door, you may hear a steady pre-alert tone from the keypads. If so, disarm according to the chart below.

WARNING: If the bells and sirens are on and/or the red Armed light is flashing, then the keypad is signaling that an alarm has occurred sometime before your arrival. The DS7447 will display "Zone Alarm." The DS7443 or DS7445 zone LEDs will be flashing for the corresponding zone that is in alarm.

- The keypad will also issue a pulsed tone during the entry delay instead of the usual steady tone.
- If the alarm has not been previously investigated, do not enter the building unless accompanied by the appropriate Emergency Services' personnel.

This chart explains proper procedures for disarming and/or silencing alarms.

TYPE OF DISARMING	COMMAND SEQUENCE	WHAT WILL HAPPEN
Disarming the System	PIN + [Off]	The red Armed light will turn off. Pre-alert sounders will silence.
Silencing Alarms	PIN + [Off]	The red Armed light will turn off. Zone LEDs on the DS7443 or DS7445 will turn off. Alarms in progress will silence.

Turning Off (disarming) the System under Duress

A duress code is used when someone demands, by threatening your life or well-being, that the system be turned off. When used, the code will both turn off the system and report a silent duress alarm if connected to a monitoring service. User code 14 can be optionally configured as a duress code. User code 14 will not arm the system, or report duress, if the system is not armed. Extreme care should be used when entering your PIN to turn off the system, so a duress code is not inadvertently entered. User Code 14 is not a duress code by default. You must program the control panel that User Code 14 is the duress code. Ask your installation company if you desire this feature.

1.9 Force Arming

When one or more zones are faulted, the system may be Force Armed by bypassing the faulted zones. The green Status light will be off on all keypads when Force Arming is required to arm the system. The DS7447 display will read "Not Ready" or "Fire Trouble" (if a fire zone is open) and the DS7443 and DS7445 zone LEDs (1-6) will be on if one of those zones is faulted. Ask your installation company if you desire this feature.

Force Arming during an AC power failure: Regular arming of the control panel is not permitted during an AC power failure. Having to Force Arm serves as a warning that the control panel is operating under backup battery.

WARNING: Bypassing or Force Arming removes some of your building's protection because it excludes the faulted zones from arming. Therefore, an intrusion may not be detected or the detection may be delayed. Always attempt to correct any zone problems (close doors and windows, etc.) before using these features. If the problem can not be corrected, contact your installing company.

NOTE: See Section 1.11 Zone Bypass for an alternate method of arming the system when faults exist. Force arming is not available in U. L. Listed systems.

TYPE OF ARMING	WHAT WILL HAPPEN	WHAT TO DO	WHAT WILL HAPPEN	WHAT TO DO
<p>Force Arming Enter any arming sequence.</p>	<ul style="list-style-type: none"> A 5 second beep occurs, indicating there are faulted zones and that the control panel needs to be Force Armed. 	<p>Press [Bypass] during the 5 second beep.</p>	<ul style="list-style-type: none"> The red Armed light will flash during the exit delay interval. The control panel will arm with the faulted zones bypassed, or a three-beep error tone will occur indicating Force Arming has not been accepted or allowed. 	<p>Exit during the exit delay interval if leaving.</p>

1.10 Auto Bypass

The system can be armed and will automatically bypass faulted zones. Ask your installation company if you desire this feature.

TYPE OF ARMING	WHAT WILL HAPPEN	WHAT WILL HAPPEN	WHAT TO DO
Auto Bypass	<ul style="list-style-type: none">• A single beep occurs, indicating that the panel has armed.	<ul style="list-style-type: none">• The red Armed light will flash during the exit delay interval.• The control panel will arm with the faulted zones bypassed, or a three-beep error tone will occur indicating Auto Bypass has not been accepted or allowed.	Exit during the exit delay interval if leaving.

1.11 Zone Bypass

There may be occasions when it is desirable or necessary to temporarily bypass one or more zones prior to arming the system. Bypass commands only work when the control panel is disarmed. For instance, an open window may cause the DS7447 display to read "Not Ready" followed by the zone number. The DS7443 or DS7445 may have one of its zone LEDs on steady.

Only one zone may be bypassed each time the command is used. If more than one zone requires bypassing, repeat the command for each zone to be bypassed.

NOTE: See Section 1.9 Force Arming for another method of zone bypassing.

This chart explains the procedure for bypassing a faulted zone prior to arming the system.

TYPE OF BYPASSING DESIRED	COMMAND SEQUENCE*	WHAT WILL HAPPEN
Bypass Faulted Zones	PIN + [Bypass] [Zone #]	<ul style="list-style-type: none"> The Status light will begin to flash if no other zones are violated.
Read Bypassed Zones	PIN + [Bypass]	<ul style="list-style-type: none"> Bypass will be displayed (DS7447) followed by the zone number of any bypassed zones. The DS7443 or DS7445 will flash the zone LED of the zone being bypassed.
Clear Individual Bypassed Zone(s)	PIN + [Bypass] [Zone #]	<ul style="list-style-type: none"> Individual zone bypasses will be cleared.
Clear all Bypasses	PIN + [Bypass] [*]	<ul style="list-style-type: none"> All bypasses will be cleared.

* If in "Residential Mode" substitute the [#] key for the PIN.

NOTE: All bypasses are cleared when the system is disarmed, unless they are on 24-hour zones. To clear a bypass on a 24-hour zone, use Clear Individual or Clear All.

1.12 Chime Mode

Chime Mode causes the keypad sounders to beep each time a Perimeter or Entry/Exit zone is violated while the control panel is off (disarmed). Only your installation company can determine which zones are chime zones. The [#] [7] command is used to both turn Chime Mode off and on.

This chart explains the procedure for turning ON and turning OFF Chime Mode.

ACTION DESIRED	COMMAND SEQUENCE*	WHAT WILL HAPPEN
Turn ON Chime Mode	PIN + [#] [7]	<ul style="list-style-type: none">The keypad sounders will beep for 2 seconds each time a perimeter or entry/exit zone is violated. The DS7447 display will read "Chime Mode On" for 5 seconds.
Turn OFF Chime Mode	PIN + [#] [7]	<ul style="list-style-type: none">The DS7447 display will read "Chime Mode Off" for 5 seconds.

* If in "Residential Mode" substitute the [#] key for the PIN.

1.13 Zone Test

The Zone Test is used to confirm that detectors will report alarms. Zone Test works on all zones, except 24-hour zones and fire zones. While the keypad is in Zone Test, no control panel alarms will activate an alarm, except 24-hour zone alarms and fire alarms. These will override the Zone Test function.

Caution: Be sure not to activate 24 hour or fire zones during the zone test or an alarm signal will be sent.

The Zone Test will initiate communicator reports only if both "System in Test Report" and "System in Test Restoration Report" are programmed. Ask your installation company if you desire this feature.

WARNING: Make sure that the report value programmed at these locations will be clearly understood at the Central Station. The "System in Test Report" will be sent, followed by the alarm and restoral reports of the zones being tested, providing their corresponding report address is programmed. After completion of the Zone Test, the "System in Test Restoral Report" will be sent. If these two reports are misunderstood, then the zone alarms might be perceived as a real violation.

TYPE OF TEST	COMMAND SEQUENCE	WHAT WILL HAPPEN	WHAT TO DO
<p>Zone Test</p>	<p>Commercial Mode PIN + [#] [8] [1] Residential Mode [#] + [8] [1]</p>	<p>DS7443/DS7445: The zone LEDs will flash for any zones that have not been tested. DS7447: "Test Zone" will display followed by the zone number of any zones that have not been tested. DS7443/DS7445: The zone LED will turn on steady for the zone that is currently being violated (tested). DS7447: "Now Testing" will be followed by the zone number of the zone that is currently being violated (tested). It returns to "Test Zone" after the violation.</p>	<p>Test each detector one at a time as instructed by the installing company. To exit the Zone Test mode, enter your PIN followed by [#] or press the [*] key.</p>

1.14 Local Battery/Sounder Test

This test uses the battery to manually activate all the system sounders for two seconds. If the battery voltage is low, a battery fault will occur.

TYPE OF TEST	COMMAND SEQUENCE	WHAT WILL HAPPEN	WHAT TO DO
Local Battery/ Sounder Test	<p>Commercial Mode PIN + [#] [8] [5]</p> <p>Residential Mode [#] [8] [5]</p>	<ul style="list-style-type: none"> • All keypad lights will turn on. <i>NOTE: Zone lights on the DS7443 and DS7445 will not turn on.</i> • The keypad sounder and all alarm sounding devices will operate for 2 seconds. 	<p>If test fails, the control panel will indicate a control problem.</p> <p>If power in your building has been off recently, wait 2 hours for the battery to recharge and then try again.</p>
Battery Test	<p>Commercial Mode PIN + [System Reset]</p> <p>Residential Mode [#] + [System Reset]</p>	<ul style="list-style-type: none"> • The control panel will perform a battery test. • If there is a Low Battery condition, the control panel will report a Low Battery. • If the battery is now functional, the control panel will report a battery restoral. 	

1.15 Communicator Test

This test is only available if your system transmits alarms and system information to a monitoring service, and has been programmed by the security installing company to permit communicator tests. This test may only be used in the disarm mode.

A long beep will initially sound to acknowledge the start of the test. If the test is successful, the sounder will again issue one long beep. If the test fails, the keypad sounder will beep three times and the Power LED will begin to flash, indicating a Control Trouble. The DS7447 keypad will display "Control Trouble Enter #87. When performing the #87 error display sequence, the DS7447 keypad will display "Control Trouble Communication Err". The DS7443 and DS7445 keypads will turn on the Zone 3 LED. See Section 1.19 "Error Displays".

TYPE OF TEST	COMMAND SEQUENCE	WHAT WILL HAPPEN	WHAT TO DO
<p>Communicator Test</p>	<p>Commercial Mode PIN + [#] [8] [2] Residential Mode [#] [8] [2]</p>	<ul style="list-style-type: none"> • A long beep will sound. • A "Test" report is sent to the monitoring service. 	<p>If test fails, the keypad sounder will beep 3 times. NOTE: This test may take several minutes to complete because the control will try several attempts before it fails this test. A retry will occur 30 minutes after failure, and then 24 hours thereafter.</p>

1.16 Read Alarm History

The history buffer stores the last 20 events in memory. The DS7447 can display all of these events. The DS7443/DS7445 can only display those zones (1-6) that have alarmed.

Type of Test	Command Sequence**	What will Happen	What to Do
Event History Readback	PIN + [#] [8] [9]	DS7447: The last event to take place will be displayed. DS7443/DS7445: The zone LEDs (1-8) will flash for any zones that have alarmed.	DS7447: Scroll through the events by using the [9], [6], and [#] keys. See below. To exit from the Event History Mode, press the [*] key.

**= [F] in Residential mode, a PIN is not required for this command.

DS7447 only: Scrolling through history events.

To begin scrolling through the events, press the [#] key. The [#] key will scroll you back through the history line by line. The [9] key will scroll you back in reverse order by event. Pressing the [6] key will scroll you forward through the events (towards the most recent) by event. Each event consists of two lines or display screens. The first line/screen will be the event title and user. The second line/screen will be the date of the event or the change being made. To exit the History Mode, press the [*] key or wait 20 seconds and the keypad will exit automatically.

1.17 Fire Reset/Fire Trouble

Fire Reset

During a fire alarm, exit the premises immediately. When you have determined there is no fire, you may silence the bells/sirens before you can initiate the [System Reset] command. PIN + [Off] will silence the sounders.

This will allow a determination of which smoke detector has alarmed so the monitoring company may verify its operation.

A PIN followed by the [System Reset] key will reset any smoke detectors after a fire alarm has occurred. The System Reset command will perform a fire reset, will perform a battery test, and will clear all system troubles.

Fire Trouble

A Fire Trouble display signifies a problem with the fire system, such as a break in the wiring that monitors smoke detectors.

A Fire Trouble will be indicated by a short beep from the keypad sounders every 10 seconds. The DS7447 will display “**Fire Trouble**” followed by the zones in a trouble condition. The DS7443 will turn the Fire light on steady and will light the corresponding zone LEDs. The DS7445 will turn the Fire and Trouble lights on steady and will light the corresponding zone LEDs.

Notify your installing company immediately if the Fire Trouble message is displayed.

The Fire Trouble beep can be silenced with any PIN followed by the [Off] key. After problems have been remedied, a PIN followed by [System Reset] should be entered to clear the “**Fire Trouble**” display.

1.18 Remote Program Dial-out and Answer

Note: These features should be used by qualified installation personnel only.

Call for Remote Programming

This command can only be entered when the control is disarmed. Phone numbers 1 and 3 must be programmed, along with account code 1. The panel will call phone number 3 and attempt to connect for downloading. While programming is underway the Status, Armed, and Power LEDs will flash. If the panel is already using the phone line, it will sound the three beep error tone.

Answer for Remote Programming

The panel will automatically pick up the phone line to answer a remote programming call. While programming is underway the Status, Armed, and Power LEDs will flash. If the panel is already using the phone line for a report communication, it will sound the three beep error tone. This command can only be entered when the control is disarmed.

This chart will help you to call or answer the Remote Programmer.

TYPE OF FUNCTION	COMMAND SEQUENCE	WHAT WILL HAPPEN
Remote Program Dial-out**	Commercial Mode PIN + [#] [8] [3] Residential Mode [#] [8] [3]	The panel will call the remote programmer.
Remote Program Answer	Commercial Mode PIN + [#] [8] [6] Residential Mode [#] [8] [6]	The panel will answer a call from the remote programmer.

** = Phone numbers 1 and 3 must be programmed. Phone #1 Account Code must be programmed.

1.19 Error Displays

Control panel problems are indicated by a flashing green Power light. The DS7447 display will also read "Control Trouble, Enter [#] [8] [7]. " The DS7443 and DS7445 will only flash the green Power light. The error messages may only be read when the control is disarmed. Contact your installing company if the problems persist.

ACTION DESIRED	ACTION DESIRED
Read the Error Display when the Green Power Light Is Flashing.	Commercial Mode PIN + [#] [8] [7] Residential Mode [#] [8] [7]
Clear Error Display ** Caution: Clear the error display only on the advice of your installing company or if you are certain the problem has been remedied.	Commercial Mode PIN + [System Reset] Residential Mode PIN + [System Reset]

** = **Battery Trouble** and **Communicator Err** displays must be cleared by the [System Reset] command sequence even after the problem has been remedied. These displays will not self clear. All the other error displays will self clear from the keypads once the problem has been remedied.

1. **DS7447 - "AC Power Failure"**
DS7443 or DS7445 - LED 1 turns on steady
There is a power failure and the panel is operating on backup battery.
2. **DS7447 - "Battery Trouble"**
DS7443 or DS7445 - LED 2 turns on steady
If the system has just been through a power failure, wait at least two hours for the battery to recharge, then enter a PIN + [System Reset] to perform a battery test.
3. **DS7447 - "Communicator Err"**
DS7443 or DS7445 - LED 3 turns on steady
The communicator failed to communicate with the central station.
4. **DS7447 - "System Fault"**
DS7443 or DS7445 - LED 4 turns on steady
Internal error in the control circuitry or optional circuitry. These system faults are: Ram Fault, ROM Fault, EEPROM Fault.
5. **DS7447 - "Keypad Fault"**
DS7443 or DS7445 - LED 5 turns on steady
One of the keypads is not responding to the control panel.
6. **DS7447 - "Aux Power Fault"**
DS7443 or DS7445 - LED 6 turns on steady
The auxiliary power has been shorted.
7. **DS7447 - "Zone Trouble"**
DS7443 or DS7445 - LED of the zone in trouble will light
One of the zones is not responding to the control panel. This may also be displayed during power-up (if so, ignore).

1.20 Duress Code

User Code 14 may be used as a duress PIN number. When the system is disarmed using this duress code, a silent report is sent to the central station. Duress codes are intended to be used when a user is forced to disarm the system. Ask your installation company if you desire this feature.

1.21 Guest Code

User Code 15 may be programmed to be a Guest Code. After the Guest Code has been programmed, it is enabled by depressing [PIN] + [#] [8] [4]. The Guest Code may now be used to arm and disarm the system. It remains active until the panel is disarmed with any other valid code. Ask your installation company if you desire this feature.

1.22 Emergency Procedures

Identifying Alarm Sounds

Your alarm system may be programmed for a steady alarm sound or a pulsed alarm sound. It is important to learn the difference between a fire alarm sound and an intrusion alarm sound before you are confronted with an actual emergency.

Silencing Alarms

All alarms can be silenced with any PIN. Entering your PIN + [Off] will silence the alarm and turn off (disarm) the control.

A Cautionary Note

How you respond to an alarm will depend, mostly, on the type and time of the alarm. You should seek the advice of your installing company as they install your system, **not later** (e.g. after an alarm) to develop a response plan.

Above All Else, Common Sense Should Prevail

If there is any threat or hint of danger to yourself or others on the premises, such as in the event of a fire alarm, everyone should be instructed to leave the premises immediately. Do not enter the premises unless accompanied by the appropriate Emergency Services' personnel, or after they have given the OK to enter.

Caution When Entering A Building

If the bells and sirens are on and/or the red Armed light is flashing (with the DS7447 display reading “Zone Alarm” or the DS7443 or DS7445 having its zone LEDs flashing) then the keypad is signaling that an alarm has occurred. The keypad will also issue a pulsed tone during the entry delay instead of the usual steady tone.

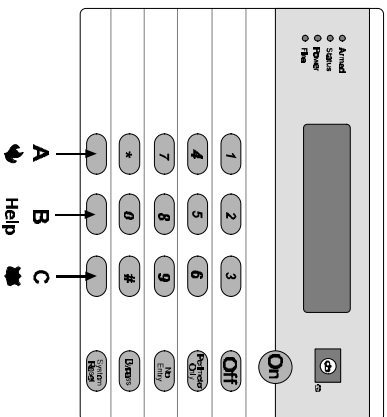
If the alarm has not been previously investigated, **do not enter the building unless accompanied by the appropriate Emergency Services’ personnel.**

Fire Alarms

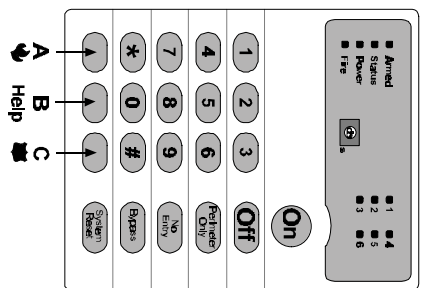
Fire Alarms are silenced by using the same procedure as intrusion alarms: a PIN + the [Off] key.

The Fire Alarm system is **not** reset until alarms at smoke detectors are cleared by using the [System Reset] command. The Fire Alarm system will **not** be functional until this procedure has been followed. See the “Fire Reset” section.

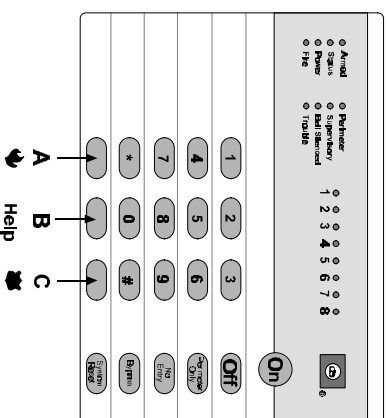
1.23 Emergency Keypad Alarms



DS7447 KEYPAD



DS7443 KEYPAD



DS7445 KEYPAD

The Emergency Alarm Keys [A], [B], and [C] may generate Fire, Special Emergency, and Panic Alarms if programmed by the installer. Ask your installing company to explain the function of these keys.

When using the Emergency Alarm Keys, they must be pressed for two seconds to generate an alarm.

NOTE: If the Emergency Alarm keys are to be used, they should be labeled to signify their functions.

The “A” key should be labeled as the Fire key. This is the only key that may be designated as the Fire key.

The “B” key should be labeled as the Help key.

The “C” key should be labeled as the Panic key.

Use the Disarming Command Sequence to cancel or silence these alarms.

1.24 Fire Safety

This fire alarm system can provide early warning of a developing fire. Such a system, however, does not ensure protection against property damage or loss of life resulting from a fire. Any fire alarm system may fail to warn for any number of reasons (e.g. smoke not reaching a detector that is behind a closed door).

When considering detectors for residential applications, refer to NFPA Standard 72, “The National Fire Alarm Code.” This standard is available at a nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

If Installed in Family Residences

Adherence to the NFPA Standard 72 can lead to reasonable fire safety when the following items are practiced:

- **Minimize hazards:** Avoid the three traditional fire killers: smoking in bed, leaving children home alone, and cleaning with flammable liquids.
- **Provide a fire warning system:** Most fire deaths occur in the home, the majority, during sleeping hours. The minimum level of protection requires smoke detectors to be installed outside of each separate sleeping area and on each additional story of the dwelling.

For added early warning protection, it is recommended that detectors be installed in all separated areas including the basement, bedrooms, dining room, utility room, furnace room, and hallways.

Having and Practicing an Escape Plan

A fire warning may be wasted unless the family has planned in advance for a rapid and safe exit from the building.

- Draw a floor plan of the entire house showing **two** exits from each bedroom and **two** from the house. Since stairwells and hallways may be blocked during a fire, the plan should provide exits from bedroom windows. Make copies of the plan and practice it with all family members.
- Rearrange a meeting place **outside and away from** the residence. Once out of the building, all occupants should immediately go to the pre-selected location to be accounted for.
- Provide a barricade between family members and fire, smoke, and toxic gases (e.g. close all bedroom doors before retiring).
- Children should be instructed on opening their bedroom windows and exiting safely from the building. If exiting is not possible, they should be taught to stay at the open window and shout for help until it arrives.
- In the event of a fire alarm after retiring, wake the children by shouting to them from behind your closed door. Tell them to keep their bedroom doors closed.
- **If the top of your bedroom door is uncomfortably hot, do not open it.** There is most likely fire, intolerable heat, or smoke on the other side. Shout to all family members to keep their bedroom doors closed and to exit the building via alternate routes.
- If the top of the door is not uncomfortably hot, brace the bottom of the door with your foot, and the top with one hand, then open the door about one inch. Be prepared to slam the door shut if there is any pressure against the door or if any hot air rushes in.
- If there is no evidence of excessive heat or pressure, **leave the room and close the door behind you.** Shout appropriate instructions to all family members and immediately leave the building via the pre-planned routes. If heavy smoke is present, drop to your hands and knees, or crawl to remain below the smoke level.

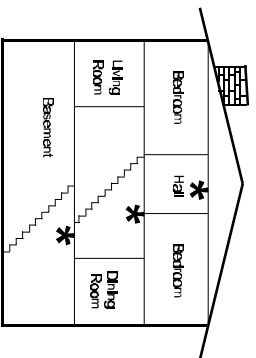
Installation Considerations

Proper location of detection devices is one of the most critical factors in a fire alarm system.

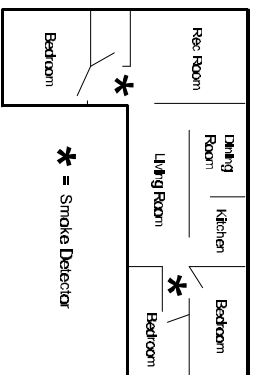
The following are some general considerations:

- Smoke detectors should **not** be installed in “dead air” spaces or close to ventilating or air conditioning outlets because smoke may be circulated away from the detector. Locations near air inlets should be favored.
- Avoid areas subject to normal smoke concentrations such as kitchens, garages, or near fireplaces.

- Do not install smoke detectors where normal area temperatures are above 100° F (38° C) or below 32° F (0° C).
- Areas of high humidity and dust concentrations should be avoided.
- The edge of ceiling mounted detectors should be no closer than 4 inches (10 cm) from any wall.
- Place the top edge of wall mounted detectors between 4 and 12 inches (10 to 30 cm) from the ceiling.



* = Smoke Detector
 A smoke detector should be located on each story including basements, but excluding crawl spaces and unfinished attics.



* = Smoke Detector
 Locate smoke detectors between sleeping areas and family/living areas.

For exact mounting information, refer to the instructions provided with the smoke detectors.

PIN NUMBER

Example _____
1038

NAME

Thomas J. Brown

User 001 _____

User 002 _____

User 003 _____

User 004 _____

User 005 _____

User 006 _____

User 007 _____

User 008 _____

User 009 _____

User 010 _____

User 011 _____

User 012 _____

User 013 _____

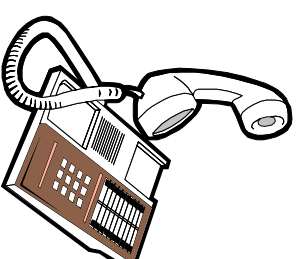
User 014 _____

User 015 _____

	DEVICE	LOCATION	TYPE
<i>Example</i>	<i>PIR</i>	<i>KITCHEN</i>	<i>Invisible alarm, alarm on short, alarm on open, 24-hour</i>
Zone 1	_____	_____	_____ _____ _____
Zone 2	_____	_____	_____ _____ _____
Zone 3	_____	_____	_____ _____ _____
Zone 4	_____	_____	_____ _____ _____
Zone 5	_____	_____	_____ _____ _____
Zone 6	_____	_____	_____ _____ _____

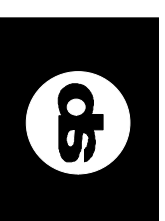
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Please contact your Installing
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