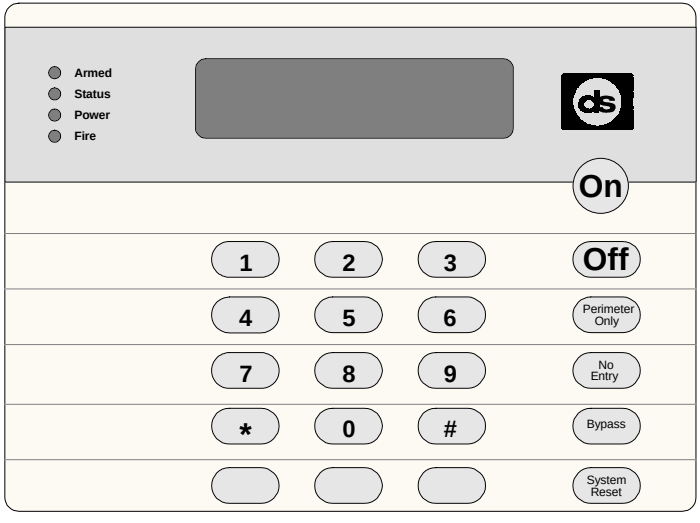
DS7400Xi (version 3+) Security System
User's Guide

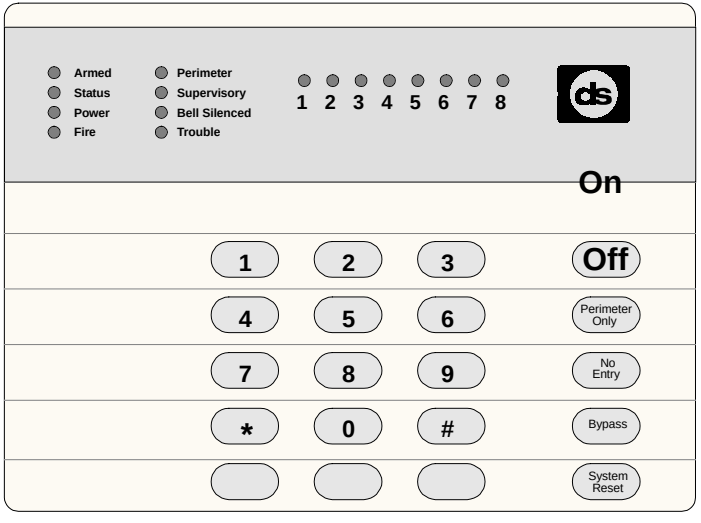
An instruction guide for your alarm system when used with a DS7447 or DS7445 keypad

DS7447



Alpha "English Display" Keypad

DS7445



LED Keypad

detection systems

A member of the Bosch Group

System Overview

Congratulations on the installation of your new security system. No other investment can provide such peace of mind. Welcome to the DS7400Xi intrusion/fire control system. Since each installation is unique, yours will contain some, but not necessarily all of the features mentioned in this guide.

A security system usually consists of:

- **A Control Panel:** The control panel is the center of your intrusion/fire alarm system. It supports such vital functions as receiving trouble and alarm signals from detectors, the sounding of bells and/or sirens, and communicating with your alarm monitoring company.
- **Command Control Stations** (Keypads): The keypad is where you interact with the system. The keypad displays critical information concerning the operation of your alarm system, plus it allows you to initiate commands such as arming and disarming.
- **Protected Zones:** Your security system may contain protected windows and doors (perimeter zones), plus various internal sensors. Your control panel separates perimeter zones from interior protection zones. Specific protection devices may include:
  - **Glass Breakage sensors:** Devices that detect the sound of breaking glass.
  - **Interior Motion sensors:** Electronic sensors (i.e. passive infrared) that detect movement within an interior zone.
  - **Magnetic Contacts:** Switches used to detect the opening of doors or windows.
  - **Smoke Detectors:** Devices that detect products of combustion.

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 communication attempts.

Table of Contents

Important

Your system may or may not be monitored by an alarm monitoring service. If it is not monitored, it is vital to understand the following:

- *Alarms sound only at your location.*
- *When an alarm is sounded, no signals are sent out.*
- *Duress and other silent alarms are disabled.*
- *Emergency alarms sound only at your location.*

Day to Day Operations

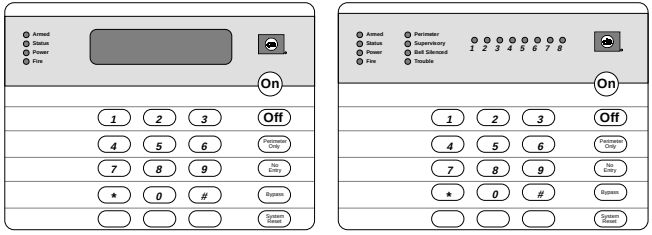
Understanding the DS7447 and DS7445 Keypads

This chart will help you understand what each Light/LED on a Standard keypad represents.

(For Master keypad operation, see page 37.)

The DS7447 is an alpha-numeric LCD keypad.
The DS7445 is an LED keypad; its LEDs 1-8 represent the first 8 zones of the system.

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



DS7447 **DS7445**

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 all power. There is no AC or battery.	Control panel problems exist. See *Error Displays*.	The control panel is in normal operation. It is running on AC power with no problems.
Fire (red)	There are no fire alarms.	A fire zone is in alarm.	A fire trouble condition exists.

continued on next page

Understanding the DS7447 and DS7445 Keypads (continued)

These Lights Present on the DS7445 Only:

Light	Off	Flashing	On
Perimeter (yellow)	Panel is disarmed or is not armed Perimeter.	This Light will not flash.	The perimeter is armed.
Supervisory (yellow)	There are no supervisory alarms present.	A supervisory condition exists.	This Light will not turn on steady.
Bell Silenced (red)	The bells do not need to be or have not been silenced.	This Light will not flash.	There has been a Fire alarm and the bells have been silenced. To clear, enter the Fire Reset command: [PIN] + [System Reset].
Trouble (yellow)	There are no trouble conditions.	This Light will not flash.	A trouble condition exists.
LEDs 1-8 (red)	There are no zone alarms.	A zone (1-8) has been alarmed.	A zone (1-8) is Not Ready to Arm, or if a fire zone, a trouble condition exists.

Volume Control: 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.

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 and disarm the system once to store this information in the control panel. If power is disconnected before the panel is armed, the backlight and volume levels will return to the default settings.

Turning ON (arming) your System

This chart explains the five normal ways to arm the system from a Standard keypad. (For a Master keypad see page 37.)

The green Status Light must be on steady and the display* must read **"Ready to Arm"** in order to arm the system with one of these commands. If the green Status Light is not on, or if the display* is reading **"Not Ready,"** see *Force Arming* or *Zone Bypass* for other ways to arm the system.

Type of Arming Desired	Command Sequence	What will Happen	What to Do
Normal Arming No one left on the premises. An entry/exit delay is in effect.	[PIN] + [On]	• The red Armed Light will begin to flash. • "Armed" will be displayed.* • "Exit Now" will be displayed during the exit delay interval.* • A single beep will sound. • The red Armed Light will turn on steady after the exit delay expires.	Exit during the exit delay interval.
Perimeter Arming Someone still on the premises. There is NO entry delay in effect.	[PIN] + [No Entry] + [Perimeter Only]	• The red Armed Light will begin to flash. • "Perimeter Inst." will be displayed.* • "Exit Now" will be displayed during the exit delay interval.* • The green Status Light will turn on steady. • A single beep will sound. • Only exterior protection zones will be armed. • The red Armed Light will turn on steady after the exit delay expires. • The yellow Perimeter Light will turn on steady.**	Move freely around the interior.

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

* = DS7447 only
** = DS7445 only

continued on next page

Type of Arming Desired	Command Sequence	What will Happen	What to Do
Perimeter Arming Someone still on the premises. The entry/exit delay is in effect.	[PIN] + [Perimeter Only]	• The red Armed Light will begin to flash. • "Perimeter On" will be displayed.* • "Exit Now" will be displayed during the exit delay interval.* • The green Status Light will turn on steady. • A single beep will sound. • Only exterior protection zones will be armed. • The red Armed Light will turn on steady after the exit delay expires. • The yellow Perimeter Light will turn on steady .**	Move freely around the interior.
Custom Arming (If programmed) Ask your installing company to explain the type of arming that occurs when using this command.	[PIN] + [#] + [4]	• The red Armed Light will begin to flash. • "On Partial" will be displayed.* • "Exit Now" will be displayed during the exit delay interval.* • The green Status Light will turn on steady. • A single beep will sound. • The red Armed Light will turn on steady after the exit delay expires.	Exit during the exit delay interval.
Maximum Security Arming No one left on the premises. There is NO entry delay in effect. An alarm WILL occur upon entry.	[PIN] + [No Entry] + [On]	• The red Armed Light will begin to flash. • "Armed Instant" will be displayed.* • "Exit Now" will be displayed during the exit delay interval.* • A single beep will sound. • The red Armed Light will turn on steady after the exit delay expires.	Exit during the exit delay interval. CAUTION: Violating any zone after the exit delay will cause an instant alarm.

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

* = DS7447 only
** = DS7445 only

Quick Arming your System

This chart explains four ways to quick arm the system from a Standard keypad.

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 short-cuts are available:

Quick Arming Command Sequence	Type of Arming
[#] + [On]	Normal Arming
[#] + [No Entry] + [Perimeter Only]	Perimeter Arming - no entry delay
[#] + [Perimeter Only]	Perimeter Arming - entry/exit delay
[#] + [No Entry] + [On]	Maximum Security Arming

Note: Quick Arming is not available from a Master keypad.

Turning OFF (disarming) your System / Silencing Alarms

This chart explains proper procedures for disarming and/or silencing alarms from a Standard keypad.
(To disarm from a Master keypad, see page 40.)

Please read the section about 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 with the DS7447 display reading **"Zone Alarm,"** then the keypad is signaling that an alarm has occurred sometime before your arrival. 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.

Action Desired	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]	Alarms in progress will silence. When silencing a fire alarm, the DS7447 will display **"Sounder Silenced"** and the DS7445 will light the Bell Silenced LED until the system has been reset.

When in Commercial Fire Mode,
entering your [PIN] followed by the [#] key a second time
allows you to locate the fire zone number(s) that is (are) in alarm.

Force Arming your System

This chart explains the procedure for Force Arming your system if one or more zones are faulted.

When one or more zones are faulted, the system may be Force Armed (if programmed) by bypassing the faulted zones. The DS7447 display will read **"Not Ready"** and the DS7445's zone LEDs (1-8) will be on when Force Arming is required to arm the system.

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 *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
Force Arming Enter any arming command	• A five second beep occurs, indicating the control panel has faulted zones and needs to be Force Armed, or a three-beep error tone occurs indicating Force Arming has not been accepted or allowed.	Press [Bypass] during the 5 second beep.	• The red Armed Light will flash during the exit delay. • The control panel will arm with the faulted zones bypassed, or a three-beep error tone occurs indicating Force Arming has not been accepted or allowed.	Exit during the exit delay interval if leaving.

Zone Bypass

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

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 DS7445 may have one of its zone 1-8 LEDs on steady.

If more than one zone requires bypassing, simply enter the additional zone numbers.

Note: See Force Arming for another method of zone bypassing.

Type of Bypassing Desired	Command Sequence	What will Happen	What to Do
Bypass Faulted Zones	[PIN] + [Bypass] [XXX] [XXX] [XXX] (zone numbers)	The Status Light will begin to flash if no other zones are violated.	Arm control panel, if desired, after bypassing.
Read Bypassed Zones	[PIN] + [Bypass]	**"Bypass"** will be displayed on the DS7447 followed by the zone number of any bypassed zones. The DS7445 will flash the zone LED (1-8) of any zone being bypassed.	
Clear Individual Bypassed Zone(s)	[PIN] + [Bypass] [XXX] (zone number)	Individual zone bypasses will be cleared.	
Clear All Bypasses	[PIN] + [Bypass] [*]	All bypasses will be cleared.	

The zone number must be entered as a three digit number. Example: 001, 062, 125, etc.

Note: All bypasses are cleared when the system is disarmed, unless they are 24-hour zones. To clear a bypass on a 24-hour zone, use one of the two methods above.

If bypassing is performed from a Master keypad, you must be in Single Partition Mode.

Automatic Arming

Each partition can be programmed to automatically arm once per day. To program the Automatic Arming time, perform the following:

Setting the Automatic Arming Time	Notes
Enter a [Master PIN] + [#] + [0]	Setting the Automatic Arming Time can only be performed in the Master Programming Mode.
Enter a [1] to enter the Automatic Arm Setup programming	
Enter the partition number. Press [#] to exit.	If programming is done from a Master Keypad that is not in single partition mode, the user will be prompted to enter the partition they wish to program. The user will only be allowed to program the partitions to which they are assigned. If programming from a standard keypad, or from a Master Keypad in single partition mode, this step will be skipped.
Enter a time for each day. Enter in [0] [1] [0] [0] [#] format.	The display will start with Sunday. It will read, “Sunday - nn : nn” Enter the time in 24 hour format then press the [#] key. If you make a mistake, press the [*] key twice to move back to your last entry. Samples of times: 12 midnight = 2400# 12:01am = 0001# 1:00am = 0100# Disabled = 0000# 12 noon = 1200# 12:01pm = 1201# 1:00pm = 1300#

Automatic Disarming

Each partition can be programmed to automatically disarm once per day. To program the Automatic Disarming time, perform the following:

Setting the Automatic Disarming Time	Notes
Enter a [Master PIN] + [#] + [0]	Setting the Automatic Disarming Time can only be performed in the Master Programming Mode.
Enter a [4] to enter the Automatic Disarm Setup programming	
Enter the partition number. Press [#] to exit.	If programming is done from a Master Keypad that is not in single partition mode, the user will be prompted to enter the partition they wish to program. The user will only be allowed to program the partitions to which they are assigned. If programming from a standard keypad, or from a Master Keypad in single partition mode, this step will be skipped.
Enter a time for each day. Enter in [0] [1] [0] [0] [#] format.	The display will start with Sunday. It will read, “Sunday - nn : nn” Enter the time in 24 hour format then press the [#] key. If you make a mistake, press the [*] key twice to move back to your last entry. Samples of times: 12 midnight = 2400# 12:01am = 0001# 1:00am = 0100# Disabled = 0000# 12 noon = 1200# 12:01pm = 1201# 1:00pm = 1300#

Delaying Automatic Arming

This section explains how to delay the Automatic Arming Time.

To inform occupants that the system is about to arm, a pre-arming period will begin 15 minutes before the system arms automatically. The keypad sounders, and any outputs programmed to follow the keypad sounders, will pulse five times every minute. During the last five minutes before arming, these sounders will be on steady.
Once per minute the keypad (DS7447 only) will read, “Arm in nn min./PIN + OFF - extend.”

If automatic arming is used in Master Keypad mode, it will affect all partitions you have access to.
If used in single partition mode, or from a single partition keypad, it will affect only the partition you are working in.

To extend the Automatic Arming of the system during the automatic arming pre-arming period, perform the following steps:

Extending Automatic Arming*	What will Happen
Enter a [PIN]	
Press [OFF]	The arming time will be extended 30 minutes from when you press [OFF]. A new pre-arming period will begin 15 minutes prior to the new automatic arming time.

* = To extend the Automatic Arming at any time, use the Delayed Arming feature on page 15.

Note: The keypad volume setting also applies to the Auto Arm tone.

Delayed Arming

This section explains how to cause the system to arm after a specified number of hours.

Delayed arming is simply causing the system to arm after a specified number of hours.
To program the system for delayed arming, perform the following steps:

Delaying Arming	Notes
Enter a [PIN]	
Enter [9] [9] to enter the Delayed Arming programming	The keypad will display the following: Arm in nn Hours # to accept
Enter number of hours to delay arming. Enter in [0] [1] [#] format	Enter the number of hours from now that you would like the system to arm. For example: If it is 3:30 now, and you would like the system to arm at 9:30, enter [0] [6] [#].

Additional Notes: Delayed arming can be used even if there are no automatic arming times programmed.

If delayed arming is used in Master Keypad mode, it will affect all partitions you have access to. If delayed arming is used in single partition mode, or from a single partition keypad, it will affect only the partition you are working in.

Delayed arming will override automatic arming. Delayed arming will also provide a 15 minute pre-arm period like the one provided with automatic arming.

Chime Mode

This chart explains the procedure for turning ON and turning OFF 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). The [#] [7] command is used to turn Chime Mode both off and on.

This will only activate or de-activate the keypad(s) in the partition you are entering from.

Action Desired	Command Sequence	What will Happen
Turn ON Chime Mode	[PIN] + [#] [7]	The keypad sounders will beep for two 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]	The DS7447 display will read **"Chime Mode Off"** for 5 seconds.

If this is performed from a Master keypad, you must be in Single Partition Mode.

Access Control

This chart explains the procedure for activating devices that require an Access Control PIN.

Your system may use a keypad key sequence to activate other electrical devices.
The special PIN required to perform this function is known as an Access Control PIN.
This feature can be used in armed or disarmed modes.

Access PIN activations are recorded at the History Buffer.
The PIN may control devices that activate for a short period of time (i.e. electric locking mechanisms on a door).

Momentary Access Control Panel Activation	[Access Control PIN] + [Off]	The Access device will be activated for 10 seconds.

This feature must be disabled on U.L. Listed systems.
The control is not a listed access control unit (UL294).

Changing the Date

This chart will guide you through the steps necessary to Change the System Date.

You should write down your entries before you enter the Master Code Programming Mode and have them with you as you begin programming. Make your entries promptly. If a delay of 15 seconds or more occurs between your entries, the 3-beep error tone occurs and exits you from the programming mode.

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

Steps to Change the Date	Command Sequence	If Accepted, DS7447 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.

Changing the Expiration Date (for Temporary PINs)

This chart will guide you through the steps necessary to Change the Expiration Date for Temporary PINs.

You should write down your entries before you enter the Master Code Programming Mode and have them with you as you begin programming. Make your entries promptly. If a delay of 15 seconds or more occurs between your entries, the 3-beep error tone occurs and exits you from the programming mode.

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

Steps to Change the Exp. Date for Temp. PINs	Command Sequence	If Accepted, DS7447 Display Reads
# 1. Enter the Master Code Programming Mode.	[Master Code] + [#] [0]	"3 Change Date of Code Expiration" (display will scroll to this)
# 2. Enter a 3.	[3]	"Enter Month" (01 ... 12)
# 3. Enter the expiration Month.	[0] [1] through [1] [2] January December	"Enter Day" (01 ... 31)
# 4. Enter the expiration Day. *The temporary PIN will expire at Midnight on the day selected.*	[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.

* = This will only display when in Single Partition Mode.

Note: Entering the command sequence [Master Code] [#] [0] [3] [#] will cause the DS7447 keypad to read back the temporary code expiration date.

Changing the Time

This chart will guide you through the steps necessary to change the Time displayed at the keypads.

You should write down your entries before you enter the Master Code Programming Mode and have them with you as you begin programming. Make your entries promptly. If a delay of 15 seconds or more occurs between your entries, the 3-beep error tone occurs and exits you from the programming mode.

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

Steps to Change the Time	Command Sequence	If Accepted, DS7447 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.

* = This will only display when in Single Partition Mode.

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

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 that has disarm privileges. 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 (i.e. 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

An alarm has occurred if:

- The bells and sirens are on, and/or
- The red Armed Light is flashing with the DS7447 display reading **"Zone Alarm"**
- The DS7445 zone LEDs 1-8 are flashing.

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 using the same procedure as intrusion alarms: a [PIN] (with disarm privileges) + 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 *Fire Reset* .

Turning OFF (disarming) your System under Duress

This chart explains the proper procedure for disarming under Duress.

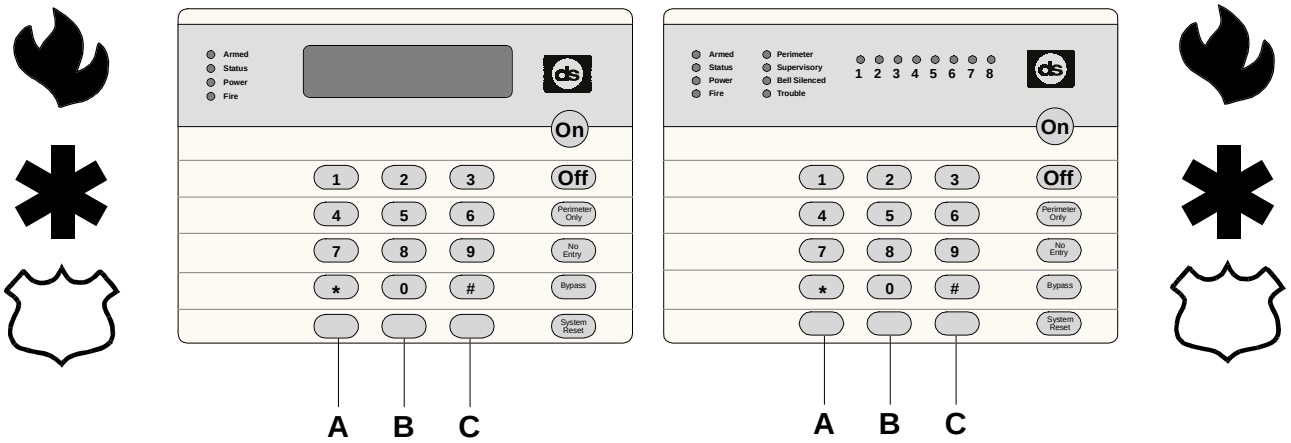
Ask your installer if the Duress feature has been activated.

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.

Extreme care should be used when entering your PIN to turn off the system, so a Duress code is not inadvertently entered.

Type of Disarming	Command Sequence	What will Happen
Disarming the System with the Duress code	[Duress Code] + [Off]	The system will appear to disarm normally. A Duress code will be sent to your monitoring service.

Emergency Keypad Alarms / Silencing Alarms



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 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 Special Emergency key.
The C key should be labeled as the Panic key.

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

Fire Reset / Fire Trouble

Fire Reset

During a fire alarm, exit the premises immediately. When you have determined there is no fire, you must silence the bells/sirens before you can initiate the System Reset command.

[PIN] + [System Reset]

Before the System Reset command is used, determine 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.

Note: To use the System Reset command sequence, your PIN must have disarm privileges.

The System Reset command will perform a fire reset, a battery test and will clear all system troubles.

Fire Trouble

A Fire Trouble message with a zone number signifies a problem with the fire system, such as a break in the wiring that monitors smoke detectors. A Fire Trouble message with no zone number indicates a ground fault if the unit is in the Commercial Fire Mode.

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 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 the [Off] key should again be entered to clear the **"Fire Trouble"** display.

Fire Safety

WARNING: No fire detection device or system should be considered 100 percent foolproof.

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 (i.e. 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

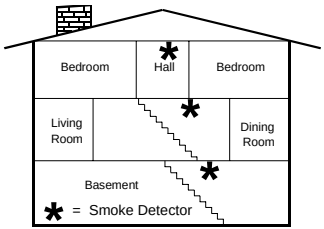
Adherence to the NFPA Standard 72 can lead to reasonable fire safety when the following items are practiced:

- **Minimize hazards:** Avoid the three traditional fire killers: smoking in bed, leaving children home alone, and cleaning with flammable liquids.
- **Providing a fire warning system:** Most fire deaths occur in the home with 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.



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

- 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.
- Pre-arrange 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.

continued on next page

Fire Safety (continued)

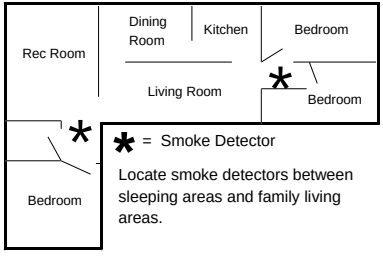
- Provide a barricade between family members and fire, smoke and toxic gases (i.e. close all bedroom doors before retiring).
- Children should be instructed on opening their bedroom windows and exiting safely from the building. If exiting is not possible, they should be taught to stay at the open window 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 degrees F (38 degrees C) or below 32 degrees F (0 degrees 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.

Personal Identification Numbers

General Information

When programming Personal Identification Numbers, it is helpful to know the following terms:

- **PIN:** Personal Identification Number. This is the 4 digit code users must enter at the keypad to gain access to the system. A PIN may be assigned to each User Number 001 through 090.
- **User Number:** This is the number that identifies each person using the system. There are 90 possible User Numbers available for use (001 through 090).
- **Authority Level:** This number determines which functions each user will be able to perform (see page 29).

Your system has the capability to assign up to 90 PINs, each four digits long. **Each User Number can have only one PIN assigned to it.** Attempting to assign the same PIN to multiple User Numbers will result in the three-beep error tone, and the entry will not be made.

User Number 001 is designated as a Master code. It can be used to add, delete, or change other PINs. It will always have access to all partitions regardless of how it is programmed.

User Number 001 is shipped from the factory with the PIN of 1 2 3 4. **This PIN should be changed to one of your personal preference and must be programmed as a Master code.**

PINs should never be programmed with common sequences such as 1 2 3 4, 1 1 1 1, or 2 4 6 8 because they are easily violated.

Removing a PIN

To disable (remove) a PIN, enter:

- A [Master code] followed by [#] [0].
- [0]
- User number of the PIN to be cancelled, followed by [#]

User Number 001 can not be disabled in this manner.

continued on next page

Personal Identification Numbers (continued)

This chart will guide you through the steps necessary to change a PIN.

You should write down your entries before you enter the Master Code Programming Mode and have them with you as you begin programming. Make your entries promptly. If a delay of 15 seconds or more occurs between your entries, the 3-beep error tone occurs and exits you from the programming mode.

It is recommended that this procedure be performed at a DS7447 keypad. No visual clues will be given from a D7445 keypad.

Steps to Change a PIN	Command Sequence	If Accepted, DS7447 Display Reads
1. Enter the Master Code Programming Mode.	[Master Code] + [#] [0]	"0 User Change" (display will scroll to this)
2. Enter a 0.	[0]	"Enter User No" (001 ... 0xx)
3. Enter the User Number.	[0] [0] [1] through [0] [9] [0]	"Enter Authority Level" Level (0-6)
4. Enter the Authority Level.	[0] through [6]	"Enter Area(s) or # for all"
5. Enter the Area(s) (partition[s]) this user has access to.	[1], [2], [3], [4], [5], [6], [7], and/or [8] then [#]	"Enter Next Area, End with #" or "Enter PIN"
6. Enter the PIN.	Any 4 digits Do not press [#]	"Enter PIN Again. End with #" A long beep will sound to signify acceptance of the new PIN
7. Enter the PIN again followed by the [#] key.	[PIN] (same as 4 digits as above), then [#]	

Note: If a Master PIN is not assigned to at least all the areas that the PIN being changed is assigned to, the Master PIN will not be allowed to alter that PIN.

continued on next page

Personal Identification Numbers (continued)

PIN Authority Levels

0 = **Master:**
Can enter all commands, add or change PINs in assigned partitions, change the time and date, bypass, arm, disarm, perform system tests, system reset and view history. User Number 001 must have the Master authority level. Any or all PINs can behave as a Master code.

1 = **Unlimited:**
Can enter all commands, bypass, arm, disarm, system reset and perform system tests. It can not change PINs.

2 = **General:**
Can bypass, arm and disarm. It can not change PINs, system reset, enter [#] [7] or any of the [#] [8] functions.

3 = **Arm Only:**
Can arm the system with [#] [1] arming sequence only. It can not perform any other functions, including disarming.

4 = **Temporary:**
Valid only for a specified time (the PIN will disappear upon expiration date). It can arm and disarm the system, but can not perform any other functions. If this is done from a Master keypad, you must be in Single Partition Mode.

5 = **Duress:**
When the system is disarmed using the duress code, a silent report is sent to your monitoring service. The Duress code is intended to be used when the user is forced to disarm the system.

6 = **Access Code:**
When a PIN with an Access Code is entered, any output programmed for Access Output (i.e. door strikes) will pulse on for 10 seconds (works when the system is armed or disarmed).

Error Displays

This chart explains the procedure for reading Error messages when the green <u>Power</u> Light is flashing.

To Clear a display, enter [PIN] + [System Reset].

Clear the Error Display only on the advice of your installing company or if you are certain the problem has been remedied.

Error Message		Meaning
DS7445	**DS7447**	
Power Light (green) flashing	Control Trouble Enter #87	There is an Error Message. To display the message, enter [PIN] + [#][8][7].
LED 1 on	AC Power Failure	There is a power failure and the panel is operating on backup battery.
LED 2 on	Battery Trouble	If the system has just been through a power failure, wait at least two hours for the battery to recharge, then enter [PIN] + [System Reset] to perform a battery test.
LED 3 on	Communicator Err	The communicator failed to communicate with the central station.
LED 4 on	System Fault	Internal error in the control circuitry or optional circuitry. See next page.
LED 5 on	Keypad Fault	One of the keypads is not responding to the control panel.
LED 6 on	Keypad Tamper	One of the keypad housings has been opened.
LED 7 on	Multiplex Bus	The multiplex bus is defective or has been shorted.
LED 8 on	Aux. Power Fault	The auxilliary power has been shorted.
	Zone Trouble	One of the zones is not responding to the control panel. This may also be displayed during power-up. (If so, ignore it.)

Note: System faults may be read from any keypad because they are system-wide. All other Error Displays are limited to the partition the standard keypad is in. If you are on a Master keypad, you may read Error Displays one partition at a time.

System Faults

System faults are designated as follows:

[#] [8] [7] will display	[#] [8] [9] will display
RAM Fault	System fault 01
ROM Fault	System fault 02
EEPROM Fault	System fault 03
Ground Fault	System fault 04
2Ph/Bell Fault = loss of communication to DS7420i	System fault 10
Line 1 Fault = DS7420i phone line 1 fault	System fault 11
Line 2 Fault = DS7420i phone line 2 fault	System fault 12
Bell Fault = DS7420i bell circuit fault	System fault 13
Aux. Relay Fault = DS7420i aux. relay fault	System fault 14
Oct. Relay Fault = loss of communication to DS7488	System fault 20
Reserved for older panels	System fault 50
AR IB Queue Full = modem buffer full	System fault 51
AR Host Down = network data switch down	System fault 52
AR Unreg. Modem = modem not registered	System fault 53
AR Power Fail = power source below defined threshold	System fault 54
AR Network Lost = loss of network	System fault 55
AR Modem HW Err = modem hardware error	System fault 56
AR Modem SW Err = modem software error	System fault 57
AR Opt. Bus Err = loss of communication to ARDIS module	System fault 58
AR Corrupt MSG = message error	System fault 59

Testing your System

This chart explains the procedure for performing a Zone Test.

It is recommended that the system be tested weekly.

The Zone Test is used to confirm that detectors will report alarms to the keypad.
A Zone Test works on all zones, except 24-hour zones and fire zones.
While the keypad is in a 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.

Type of Test	Command Sequence	What will Happen	What to Do
Zone Test	[PIN] + [#] [8] [1]	**"Test Zone"** will display on the DS7447 followed by the zone number of any zones that have not been tested. The DS7445 will flash the zone LEDs of any untested zones. **"Now Testing"** will display on the DS7447 followed by the zone number of the zone that is currently being violated (tested). It returns to **"Test Zone"** after the violation. The DS7445 will turn the zone LED on steady for the zone that is currently being violated (tested).	Test each detector one at a time as instructed by the installing company. To exit the Zone Test mode, enter your [PIN] followed by the [#] key.

* = If this test is performed from a Master keypad, it must be in Single Partition Mode.

Testing your System (continued)

This chart explains the procedure for performing a Battery Test.

If a power failure occurs, your control panel has a built-in battery that will continue to power the control panel for many hours. The control panel automatically recharges the battery when power is restored.

In addition to an automatic battery test performed every 2 minutes, the battery may also be tested manually.

This test also uses the battery to manually activate all the system sounders for 2 seconds ([PIN] [#] [8] [5] only). If the battery voltage is low, a battery fault will occur (see *Error Displays*).

Type of Test	Command Sequence	What will Happen	What to Do
Local Battery/ Sounder Test*	[PIN] + [#] [8] [5]	• All keypad Lights will turn on. • The keypad sounder and all alarm sounding devices will operate for 2 seconds.	If test fails, the control panel will indicate a control problem. See *Error Displays.* If power in your building has been off recently, wait 2 hours for the battery to recharge and then try again.
Battery Test	[PIN] + [System Reset]	• The control will perform a Battery Test. • The control will report a Low Battery or a Low Battery Restoral if necessary.	

* = If this test is performed from a Master keypad, it must be in Single Partition Mode.

Testing your System (continued)

This chart explains the procedure for performing a Communicator Test.

This test is available only 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 can be performed from a Master Keypad. The account code for partition #1 will be used.

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 turn ON continuously.

To silence the sounder, enter your [PIN] followed by the [#] key or press the [*] key.

Type of Test	Command Sequence	What will Happen	What to Do
Communicator Test	[PIN] + [#] [8] [2]	• A long beep will sound. • A "Test" report is sent to the monitoring service.	If test fails, the keypad sounder will sound continuously. To silence the sounder, press the [System Reset] key. **Note:** This test may take several minutes to complete because the control will try 10 attempts before it fails this test.

Testing your System (continued)

This chart explains the procedure for performing a Fire Walk Test.

This test is used to confirm that Smoke detectors will report alarms to the keypads.
The Fire Walk Test tests all fire zones, including verified fire and waterflow.

At the start of the Fire Walk Test a Fire Walk Test report, if programmed, is sent to the central station.

Fire alarm reports are not sent to the central station during the Fire Walk Test.

A Fire Walk Test restoral is sent upon completion of the Fire Walk Test.

The Fire Walk Test is enabled for 20 minutes once it is started.
The test time is extended to 20 minutes every time another zone is tested.

When a fire zone is tested, any output programmed to follow that zone will activate for 5 seconds.

Type of Test	Command Sequence	What will Happen	What to Do
Fire Walk Test	PIN + [#] [9] [1]	DS7447: **"Fire Test"** will display followed by the zone number of any zones that have not been tested. DS7445: The Zone LEDs will flash for any zones that have not been tested.** DS7447: **"Fire Testing"** will be displayed followed by the zone number of the zone that is currently being violated (being tested). It returns to **"Fire Test"** after the violation. DS7445: The Zone LED will turn on steady for the zone that is currently being violated (tested).	Test each detector one at a time as instructed by the installing company. To exit the Fire WalkTest enter your [PIN] + the [#] key.

****** Zones 1-8 only will be displayed on a DS7445 keypad.

A Fire Walk Test will prevent the system from sending any Fire Reports during the test.

Event History Readback

This chart explains the procedure for performing an Event History Readback.

The History Buffer stores the last 400 events in memory. The DS7447 can display all of these events. The DS7445 will only display those zones (1-8) that have alarmed since the last Event History Readback.

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. DS7445: The zone LEDs will flash for any zones that have alarmed since the last Event History Readback done on a DS7445 keypad in that partition.	For the DS7447 keypad, scroll through the events by using the [9], [6], and [#] keys. To exit from the Event History Mode, press the [*] key.

* = If this test is performed from a Master keypad, it must be in Single Partition Mode.

DS7447 Only: Scrolling through the History Events.

To begin scrolling back 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 chronological order by event. A [6] will scroll you back up through the events (toward the most recent) by event.

Each event consists of two or three 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. If there is a third line/screen, it will be the date of the change.

To exit the Event History Mode, press the [*] key or wait 20 seconds and the keypad will exit automatically.

When performing this from a Master keypad, each partition will display its own history.

The Master Keypad - DS7447 only

Your system may include a Master keypad.

A Master keypad is a DS7447 keypad programmed to give a user access to all the partitions he has access to, not just the partition the Master keypad is in. This is different from a Standard keypad in that Standard keypads only give access to the single partition they are in. Commands entered at the Master keypad will affect all the partitions the user has access to. If this is not desirable, the Master keypad can also be used to control each partition individually; this is called Single Partition Mode. Single Partition Mode allows a user to control any or all of the partitions he has access to on an individual (one by one) basis (see page 41 for more information on Single Partition Mode).

In order to use the Master keypad, your PIN must be assigned to the partition that the Master keypad is located in.

Displays at the Master keypad (also see the following page)

Master keypad displays will differ slightly from Standard keypads. The Master keypad display will scroll the Status of each partition, followed by the partition number. For example, if all partitions are armed, the Master keypad will scroll through the following displays:

Armed area 1	**Armed area 2**	**Armed area 3**	**Armed area 4**	**Armed area 5**	**Armed area 6**	**Armed area 7**	**Armed area 8**

If only partitions 1, 2, 3, 4, 6, and 8 are armed, the Master keypad will scroll through the following displays:

Armed area 1	**Armed area 2**	**Armed area 3**	**Armed area 4**	**Ready to Arm area 5**	**Armed area 6**	**Ready to Arm area 7**	**Armed area 8**

Displays for partitions that are Not Ready will display in the same manner.

Master Keypad Displays - DS7447 only

This chart will help you understand what each Light function of the Master keypad represents.

Light	Off	Flashing	On
Armed (red)	All partitions are disarmed.	One or more partitions are armed, or an alarm has occurred.	All partitions are armed, and no alarms have occurred.
Status (green)	Not ready to arm (if the Armed Light is on, all partitions are armed).	One or more zones are bypassed.	All partitions are ready to arm.
Power (green)	The control panel has lost all power; no AC or battery.	Control panel problems exist. See *Error Displays*.	Normal Operation. The control panel is running on AC power with no problems.
Fire (red)	There are no fire alarms.	A fire zone is in alarm.	A fire trouble condition exists.

Arming from the Master Keypad - DS7447 only

This chart will help you to Arm from the Master keypad.

Arming from the Master keypad	
Arming all the Partitions you have access to	Enter your PIN followed by one of the arming sequences. This will arm all of your partitions, even if some are already armed.
Arming only some of your Partitions	You must enter Single Partition Mode to arm the necessary partitions one at a time (see page 39). 1. Enter your [PIN] followed by the [#] key twice: [1] [2] [3] [4] [#] [#] 2. The first partition you have access to will be displayed: **"Ready to Arm. Cafeteria."** 3. Complete the arming command sequence you wish for this partition: [On]. 4. Move to the next partition you have access to by pressing the [#] key twice: [#] [#] 5. The next partition you have access to will be displayed: **"Ready to Arm. Office."** 6. Complete the arming command sequence you wish for this partition. 7. After you have completed all the arming command sequences for the partitions you have access to, exit Single Partition Mode by pressing the [*] key for 2 seconds. The system will also automatically drop out of Single Partition Mode after 40 seconds without a keypad entry.

Disarming from the Master Keypad - DS7447 only

This chart will help you to Disarm from the Master keypad.

Disarming from the Master keypad	
Disarming all the Partitions you have access to	Enter your PIN followed by the [Off] key. This will disarm all of your partitions, even if some are already disarmed.
Disarming only some of your Partitions	You must enter Single Partition Mode to disarm the necessary partitions one at a time (see page 39). 1. Enter your [PIN] followed by the [#] key twice: [1] [2] [3] [4] [#] [#] 2. The first partition you have access to will be displayed: **"Armed. Cafeteria."** 3. Complete the disarming command sequence for this partition: [Off]. 4. Move to the next partition you have access to by pressing the [#] key twice: [#] [#] 5. The next partition you have access to will be displayed: **"Armed. Office."** 6. Complete the disarming command sequence for this partition. 7. After you have disarmed all the partitions you have access to, exit Single Partition Mode by pressing the [*] key for 2 seconds. The system will also automatically drop out of Single Partition Mode after 40 seconds without a keypad entry.

Single Partition Mode - DS7447 only

Single Partition Mode is used to control partitions on a “one at a time/one by one” basis from the Master keypad.

To enter the Single Partition Mode, enter your [PIN], then press the [#] key twice. This will call up the first partition you have access to. Enter the command sequence you wish for this partition. You do not need to use your PIN again. To move on to the next partition you have access to, press the [#] key twice.

To exit the Single Partition Mode, hold the [*] key down for 2 seconds. The system will also automatically drop out of Single Partition Mode after 40 seconds without a keypad entry.

Example of accessing Single Partition Mode

1. Enter your [PIN], followed by the [#] key twice: [1] [2] [3] [4] [#] [#].
2. The first partition you have access to will be displayed: **“Ready to Arm. Cafeteria.”**
3. Complete the command sequence (in this case arming) you wish for this partition: [#] [On].
4. Move to the next partition you have access to by pressing the [#] key twice: [#] [#].
5. The next partition you have access to will be displayed: **“Ready to Arm. Office.”**
6. Complete the command sequence you wish for this partition.
7. After you have completed all the command sequences for the partitions you have access to, exit Single Partition Mode by pressing the [*] key for 2 seconds: [*] for two seconds.

Glossary

Access Control PIN

An Access Control PIN is a special code used to activate electric door locks or other mechanisms connected to the control panel that require this code to turn them on or off.

Armed/Disarmed

Arming the system (burglar zones) means to turn it on. Disarming the system means to turn it off. Remember, fire protection (if installed) is always Armed/on.

Central Station/Monitoring Service

A Central Station/Monitoring Service is a facility used to continuously monitor phone signals from your system. Trained personnel there dispatch proper authorities as necessary.

Common Area

A Common Area is an area that is connected to another partition or all the partitions. It may be used as a common entry way to separate partitions. A Master keypad would normally be found in the Common Area. A Common Area is only armed when all the partitions it is connected to are armed. It is disarmed when at least one of the partitions it is connected to is disarmed.

Custom Arming

Custom Arming is a type of arming that uses the [#] [4] sequence. It is only a valid sequence if programmed by the installing company. It is a specific type of arming designed for your individual installation needs. Ask your installing company to explain Custom Arming further.

Disarming Command Sequence

The Disarming Command Sequence is the sequence of keys you press at the keypad to disarm the system and/or silence alarms. It consists of your PIN followed by the command (#) button.

Entry Delay

An Entry Delay is a predetermined amount of time that allows entry into an armed area.

Exit Delay

An Exit Delay is a predetermined amount of time that allows you to exit an area just after you have armed it.

Faulted Zone

A Faulted Zone is a zone that is not ready to arm (i.e. an open door or window). It may also be described as being violated.

Force Arming

Force Arming is a way of arming the system by bypassing zones that are not ready to arm. This reduces the level of security and should be avoided.

Glossary (continued)

Installing Company
The Installing Company is the company that physically installed the system. It may or may not be the same company who monitors the system.

Local System
A Local System is a system that has a control panel that is not programmed to call a monitoring service. It will sound only local (on site) bells or sirens when an intrusion or fire alarm is detected.

Monitored System
A Monitored System is a system that uses phone lines to notify a monitoring service of programmed abnormal events such as burglar or fire alarms.

Partition
A Partition exists when the system is divided up into 2, 3, 4, 5, 6, 7, or 8 areas or Partitions. Keypads within a Partition can interact with only that Partition.

Partitioning
Partitioning divides the system into 2, 3, 4, 5, 6, 7, or 8 areas or partitions. This allows the system to act as 2, 3, 4, 5, 6, 7, or 8 separate systems.

Zone
A Zone is an input to the control panel. There are eight hard-wired zones on the control panel and additional zones may be added. A zone is usually some type of detection device whether it be designed for burglar or fire.

Zone Bypassing
Zone Bypassing is a way of arming the system by deliberately eliminating zones to be armed.

Zone Function
A Zone Function is the description of how a zone behaves in the system. Zone Functions usually define how a zone will respond when armed or when it detects an alarm.

Index

Quick Reference Guide

Maintenance and Service

The system should be tested weekly to ensure it is functioning properly. If problems are detected in testing or changes are noticed in normal operation, call your installing company for service. The manufacturer recommends replacing the system battery every 3 to 5 years.

Monitoring Service Phone No. _____

Monitoring Service System No. _____

Installing Company Phone No. _____

Zone	Protection	Zone	Protection	Zone	Protection	Zone	Protection	Zone	Protection
1		14		27		40		53	
2		15		28		41		54	
3		16		29		42		55	
4		17		30		43		56	
5		18		31		44		57	
6		19		32		45		58	
7		20		33		46		59	
8		21		34		47		60	
9		22		35		48		61	
10		23		36		49		62	
11		24		37		50		63	
12		25		38		51		64	
13		26		39		52			

Quick Reference Guide (continued)

Zone	Protection	Zone	Protection	Zone	Protection	Zone	Protection	Zone	Protection
65		78		91		104		117	
66		79		92		105		118	
67		80		93		106		119	
68		81		94		107		120	
69		82		95		108		121	
70		83		96		109		122	
71		84		97		110		123	
72		85		98		111		124	
73		86		99		112		125	
74		87		100		113		126	
75		88		101		114		127	
76		89		102		115		128	
77		90		103		116			

System Features Reference Guide

Audible Alarm Signalling Device Sounds

Intrusion ( ) Pulse ( ) Continuous
Fire ( ) Pulse ( ) Continuous

Keypad Supplemental Alarm [B] Key

( ) Continuous ( ) Silent

This system has the Duress Alarm feature.
( ) Yes ( ) No

This system has the communicator test feature.
( ) Yes ( ) No

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]

Custom Arming

[PIN] + [#] + [4] for _____

Force Arming

Enter an arming command sequence followed by the [Bypass] key. The maximum number of zones that can be forced armed is _____

Zone Bypass

[PIN] + [Bypass] followed by the [Zone number].

Quick Arming Your System

Normal Arming:
[#] + [On]

Perimeter Arming, no entry delay:
[#] + [No Entry] + [Perimeter Only]

Perimeter Arming, with entry delay:
[#] + [Perimeter Only]

Maximum Security Arming:
[#] + [No Entry] + [On]

Turning Off (disarming) Your System

Enter your [PIN] followed by [Off]

Partitioning

( ) Partitioning enabled
( ) Partitioning **not** enabled
( ) Number of Partitions

Commands for Other System Features

Chime Mode	[PIN] + [#] [7]
Zone Test	[PIN] + [#] [8] [1]
Battery Test	[PIN] + [System Reset]
Communicator Test	[PIN] + [#] [8] [2]
Error Display	[PIN] + [#] [8] [7]
Error Display Reset	[PIN] + [System Reset]
Fire Reset	[PIN] + [System Reset]
Event History Readback	[PIN] + [#] [8] [9]
Fire Walk Test	[PIN] + [#] [9] [1]

Access Control

Enter your **[Access Code PIN]** followed by [Off].

For Service

Please contact your Installing Company at the above number

Detection Systems, Inc., 130 Perinton Parkway
Fairport, New York, USA 14450-9199

December 2001

DS7400Xi (Ver. 3+) User's Guide P/N: 32781D