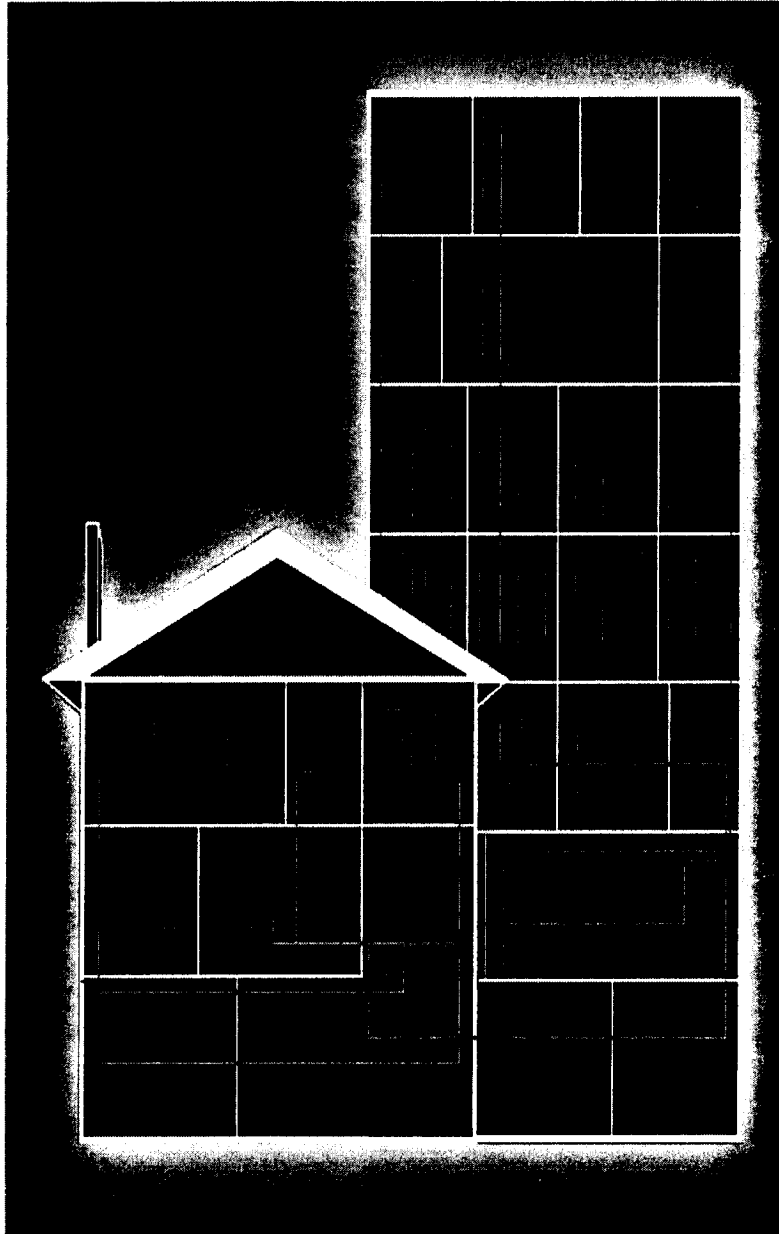


User Interface



Module 2

Sentrol University

User Functions

- **Power light**
- **Ready light**
- **Service light**
- **Stay light**
- **Zone light**
- **Emergency activation keys**
- **Arming in the "Away" mode**
- **Arming in the "Stay" mode**
- **Armed Mode Changes**
- **Disarming the system**
- **Bypassing**
- **Door Chime**
- **Changing User Codes**
- **Assigning Authority Levels**
- **Other Keypad Functions**



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Power Light

- **Power light is ON when the control panel has AC power**
- **Power light will be OFF when the control panel has no AC power connected**
- **Power light will FLASH when a low battery is detected on the control panel regardless of AC status**



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Ready Light

- **Ready light is ON** when the system is ready to arm
- **Ready light will FLASH** when the system is ready to be “force armed”
- **Ready light will be OFF** when the system is not ready to arm due to a zone or zones being faulted



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Emergency Activation Keys

• **Fire** (Auxiliary #1)



- Press and hold for 2 seconds
- Beep tone optional

Auxiliary Emergency (Auxiliary #2)



- Press and hold for 2 seconds
- Beep tone optional

Audible or Silent Panic



- Press and hold for 2 seconds
- Beep tone optional
- Silent overrides audible



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Armed Mode Changes

- **Once armed, the user may change the armed mode without disarming depending on programming as follows:**
 - **Delay/Instant Toggle**
 - Press the Stay key to change mode. The Instant LED will indicate mode on the LED keypad or the "Instant" message will be shown on the LCD
 - **Bypass Interior toggle**
 - Press the Bypass key to change mode. This is an optional feature



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Armed Mode Changes

- **Re-Exit Without Disarm**
 - Press the Exit key to start the Exit Delay Timer for all delay type zones
 - This features maintains security while adapting to the user's needs for residential and commercial applications
- **Note: Insure the Instant LED is OFF or "Instant" message not shown on the LCD prior to exiting otherwise an unintended alarm may be caused**



SENTROL

Other Keypad Functions

- **Setting Keypad Tone**

- Enter * 0
- Use the “1” key to raise or the “2” key to lower the keypad tone on LED keypads
- Use the Scroll Keys to raise or lower the keypad tone on LCD keypads
- Enter # when done



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Other Keypad Functions

- **View Alarm Memory**

- Press the “*” key followed by the “3” key
- The zone or zones that caused the alarm will be displayed

- **Communicator, Battery and Siren Tests**

- Press the “*” key followed by the “4” key
- At this time a communicator, siren, and/or battery test will be performed (as programmed)



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Other Keypad Operations

- **Walk Test**

- Enter "*" + "CHIME" followed by a user code
- All zones become silent and local (non-reporting)
- During this test the Chime light will FLASH on the LED keypad



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Other Operations

- **Walk Test continued**

- - Each time a zone is faulted, the zone light on the LED keypad will illuminate and the chime will sound. The number of the faulted zone(s) will be displayed on the LCD keypad. It will also be entered into alarm memory and the internal log



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Other Keypad Functions

- **Walk Test continued**

- To end the test at any time during this mode, enter a user code. Otherwise the “Walk-Test Mode” will automatically exit after 15 minutes
- No worry about leaving the system locked in the Walk Test mode



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Other Keypad Functions

- **Reset Smoke Detectors**

- Press the “*” key followed by the “7” key
- Smoke power reset takes about 10 seconds
- Resets zone troubles/tampers



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Other Keypad Functions

- **Abort feature**

- The alarm panel can be programmed to sound the siren, keypads, etc. in the event of an alarm, but not dial for a programmable period of time. During this delay time, the Cancel light will FLASH
- If the user enters a valid code during this period followed by the Cancel button (if required), all reports to the central station will be aborted



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Other Keypad Functions

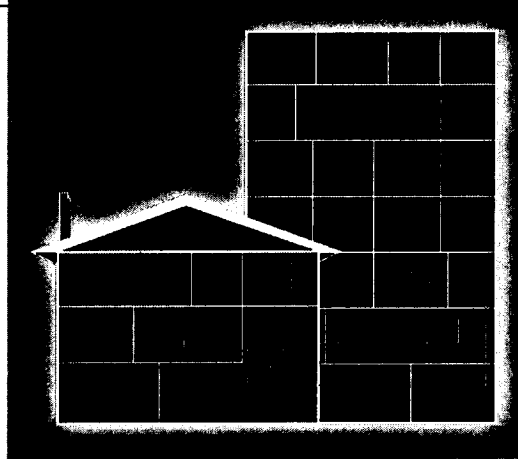
- **Cancel feature**

- If the user enters a valid code and uses the Cancel button (if required) while or after the alarm is communicating with the central station, the Cancel light will stay on until the central station has received the alarm report and acknowledged the cancel report
- In order to send the cancellation at this time, cancel reporting MUST be enabled



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LED Keypads Overview and Operation



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LED Keypads Service Light

- **The Service light will be ON if the system requires service**
- **The Service light can be suppressed through programming**
- **Pressing the "*" key followed by the "2" key will enter service mode even if the Service light is suppressed**
- **Pressing the "#" key exits the service mode**



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LED Keypads

Service Light

LIGHT	PROBLEM								
1	<p>SYSTEM FAULT - Press the [1] key. The <i>zone light(s)</i> that is illuminated corresponds to the system fault(s) below:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1 Over Current Fault</td> <td style="width: 50%;">5 Expander Low Battery</td> </tr> <tr> <td>2 Siren Trouble</td> <td>6 Expander Box Tamper</td> </tr> <tr> <td>3 Box Tamper</td> <td>7 Expander Trouble</td> </tr> <tr> <td>4 Expander Power</td> <td>8 Ground Fault</td> </tr> </table> <p>Note: Faults 1 & 2 are global in nature and will affect all partitions of a multi-partition system. Press the [#] key to return to the 1 of 8 <i>service lights</i>.</p>	1 Over Current Fault	5 Expander Low Battery	2 Siren Trouble	6 Expander Box Tamper	3 Box Tamper	7 Expander Trouble	4 Expander Power	8 Ground Fault
1 Over Current Fault	5 Expander Low Battery								
2 Siren Trouble	6 Expander Box Tamper								
3 Box Tamper	7 Expander Trouble								
4 Expander Power	8 Ground Fault								
2	<p>ZONE TAMPER - Press the [2] key and the <i>zone light(s)</i> will illuminate showing the zone(s) that are tampered. Press the [#] key to return to the 1 of 8 <i>service lights</i>.</p>								
3	<p>ZONE LOW BATTERY - Press the [3] key. The <i>zone light(s)</i> will illuminate showing which zone(s) has a low battery. This only applies to wireless zones. Press the [#] key to return to the 1 of 8 <i>service lights</i>.</p>								
4	<p>ZONE LOSS OF SUPERVISION - Press the [4] key and the <i>zone light(s)</i> will illuminate showing which zone(s) has loss of supervision. This only applies to wireless zones. Press [#] key to return to the 1 of 8 <i>service lights</i>.</p>								
5	<p>ZONE TROUBLE - Press the [5] key and the <i>zone light(s)</i> will illuminate showing which zone(s) has a trouble condition. Press the [#] key to return to the 1 of 8 <i>service lights</i>.</p>								
6	<p>TELEPHONE LINE TROUBLE/LINE CUT - This light will illuminate when there is telephone line trouble or the telephone line has been cut. The <i>service light</i> will remain lit until the telephone trouble clears and a user code is entered. Note: This fault is global in nature and will affect all partitions of a multi-partition system.</p>								
7	<p>FAILURE TO COMMUNICATE - This light will illuminate when there is a failure to communicate between your system and the central station. Note: This fault is global in nature and will affect all partitions of a multi-partition system.</p>								
8	<p>LOSS OF SYSTEM TIME - This light will illuminate when there has been a loss of power and your system clock needs to be reset. Instructions are on page 15. Note: This fault is global in nature and will affect all partitions of a multi-partition system.</p>								

LED Keypads

Zone Lights

- **The zone lights are OFF when everything is normal**
- **A zone light will be ON if the zone has been bypassed**
- **A zone light will be FLASHING if that zone is in alarm or has been faulted**
- **A zone light will be FLASHING QUICKLY if that zone is in a trouble condition**



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LED Keypads

Bypassing and Group Bypassing

- **Bypassing must be done while the system is disarmed**
- **Press the “Bypass” key**
- **Enter a user code if required**
- **The Bypass light will FLASH**
- **Enter the 1 or 2 digit zone number of the zone you wish to bypass**
- **Press the “Bypass” key again**



LED Keypads

Bypassing and Group Bypassing

- **The zone you bypassed will illuminate. You may now bypass another zone by entering its zone number, or exit the bypass mode by pressing the “Bypass” key a second time or pressing “#”**
- **The Bypass light will STOP FLASHING**
- **Group bypassing is done by entering “0” as the zone number**
- **All zones that are part of the group will illuminate**



LED Keypads

Un-bypassing

- **Un-bypassing must be done while the system is disarmed**
- **Press the “Bypass” key**
- **Enter a user code if required**
- **The Bypass light will FLASH**
- **Enter the 1 or 2 digit zone number of the zone you wish to un-bypass**
- **Press the “Bypass” key again**



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LED Keypads

Un-bypassing

- **The zone light you un-bypassed will turn off. You may now un-bypass another zone by entering it's zone number, or exit the un-bypass mode by pressing the “Bypass” key a second time or pressing “#”**
- **The Bypass light will STOP FLASHING**
- **All zones will automatically be un-bypassed each time the system is disarmed**



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LED Keypads

Changing Partition

- **Changing Partition**

- Press the “*” key followed by the “1” key.(Programmable)
- Press a number key between 1 and 8 to change partitions momentarily
- If no other key is pressed, the keypad will go back to it’s standard partition in 10 seconds
- If another key is pressed, the system will remain in the new partition until no keys have been pressed for 60 seconds



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Keypad Programming Setting Day, Date, and Time

- **Press “*” key followed by the “9” key and the “6” key**
- **Enter master code or go to program code**
 - **The Service light will FLASH**
 - Enter [day of week (1=Sun)]-[month 10’s digit]-[month 1’s digit]-[day 10’s digit]-[day 1’s digit]-[year 10’s digit]-[year 1’s digit]
 - Example 1 (Sunday), 07 (July), 04 (4th), 99 (1999 or 2099)



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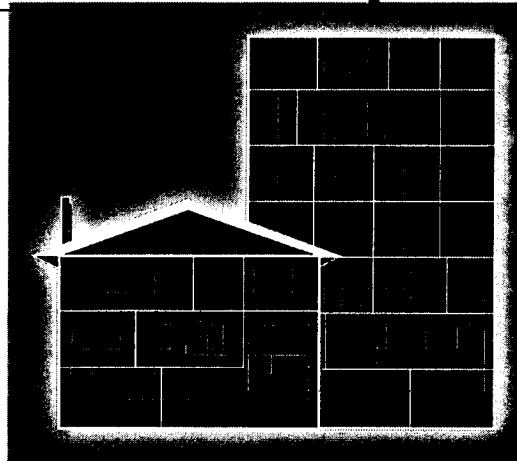
Keypad Programming Setting Day, Date, and Time

- Press "*" key followed by the "9" key and the "7" key
- Enter master code
 - The Service light will FLASH
 - Enter [hour 10's digit]-[hour 1's digit]-[minutes 10's digit]-[minutes 1's digit]
 - Example 18 (6 PM), 27 (27 minutes after)



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LCD Keypads Overview and Operation

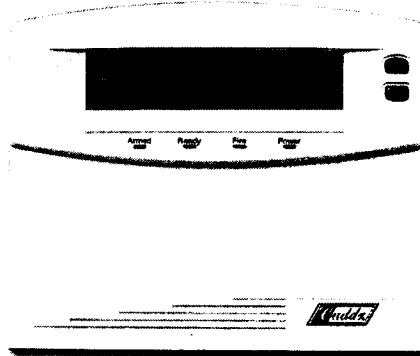


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LCD Keypads

Service Required

- **Service display will tell the user how to find out about a service problem**

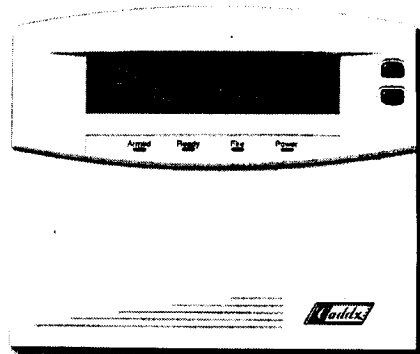


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LCD Keypads

Service Required

- **In this case, there is a zone that is reporting a tamper**
- **Pressing the "*" key will indicate which zone or zones are tampered**



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LCD Keypads

Bypassing Alternate Method

- **Bypassing can be done by the same method used with the LED keypad, or the alternate method**
- **Bypassing must be done while the system is disarmed**
- **Employ the alternate method as follows:**



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LCD Keypads

Bypassing Alternate Method

- **Press the "*" key followed by one of the scroll keys to display bypassed zones**
- **Scroll to the zone you wish to bypass and press the bypass key**
- **The display will switch from showing the zone "Okay" to showing "Bypassed"**
- **Either scroll to another zone to bypass it or press the "#" key to exit bypassing mode**
- **This can method can only be used if no code is required to bypass**



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LCD Keypads

Un-bypassing Alternate Method

- **Un-bypassing must be done while the system is disarmed**
- **Press one of the scroll keys to display bypassed zones**
- **Scroll to the zone you wish to un-bypass and press the bypass key**



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LCD Keypads

Un-bypassing Alternate Method

- **The display will switch from showing the zone "Bypassed" to showing "Okay"**
- **Either scroll to another zone to un-bypass it or press the "#" key to exit un-bypassing mode**
- **This can method can only be used if no code is required to bypass**



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LCD Keypads

Assigning Authority Levels

•To assign authority levels on LCD Keypads, press the “*” key followed by the “6” key. The following questions will appear.

PROMPT	
Outputs Used?	0=NO 1=YES (NO)
Open / Close Rprt?	0=NO 1=YES (YES)
Bypass Enable?	0=NO 1=YES (YES)
Arm / Disarm?	0=NO 1=YES (YES)
Master Code?	0=NO 1=YES (NO)
Sched Arm Only?	0=NO 1=YES (NO)
Arm Only?	0=NO 1=YES (NO)
Reserved	0=NO 1=YES (NO)



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LCD Keypads

Assigning Authority Levels

•If you selected (YES) to outputs used, you will get these questions instead, prompting you for which output this code controls.

PROMPT	
Outputs Used?	0=NO 1=YES (YES)
Open / Close Rprt?	0=NO 1=YES (YES)
Bypass Enable?	0=NO 1=YES (YES)
Arm / Disarm?	0=NO 1=YES (YES)
Output 4?	0=NO 1=YES (NO)
Output 3?	0=NO 1=YES (NO)
Output 2?	0=NO 1=YES (NO)
Output 1?	0=NO 1=YES (NO)



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LCD Keypads

Changing Partition

- **Changing Partition (LCD)**

- Press the “*” key followed by the “1” key
- Enter a user code
- This will access the master mode allowing access to any partitions that the user is allowed
- If no other key is pressed, the keypad will go back to it’s standard partition in 10 seconds
- If another key is pressed, the system will remain in the new partition until no keys have been pressed for 60 seconds



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LCD Keypads

Setting System Clock

- **Setting the System Clock(LCD)**

- Press the “*” key followed by the “9” and “7” keys
- Enter a master code
- The time and date will be displayed with the current hour flashing



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LCD Keypads

Setting System Clock

- **Setting the System Clock(LCD**

- Use the Scroll keys to select the proper hour
- Enter the “*” key to advance to the minutes, day of the week, date, month, and year
- When all selections have been entered, the keypad will automatically go back to it’s normal status



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LCD Keypads

Making System Ready

- **Making System Ready**

- If you press the Scroll keys when the system is not ready, or the Bypass light is ON, the zone or zones that are faulted or bypassed will be displayed
- Pressing the Bypass key while a zone is being displayed will toggle the bypass status of that zone
- When bypassed zones are also faulted, they will indicate zone fault, bypass
- Press “#” to exit this mode



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LCD Keypads

Checking Zone Status

- **Checking Zone Status**

- Pressing the “*” key followed by a Scroll key will display all zones, their custom descriptions, and their status
- When zones are not faulted or bypassed, they will show as “Zone Okay”
- Can be programmed to only display while disarmed



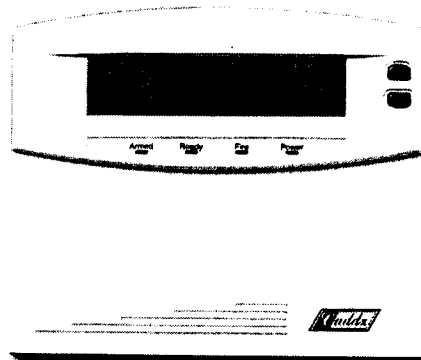
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LCD Keypads

History And Event Log

- **History and Event Log**

- Press the “*90” key followed a master code
- Events will be displayed most recent first
- Press the Scroll keys to go up and down through the events
- The “*” indicates that this event is not supposed to be communicated to the central station



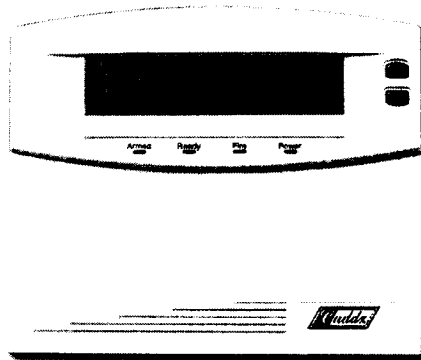
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LCD Keypads

History And Event Log

- **History and Event Log**

- User 96 = Download software arm / disarm on control panels with UL label
- User 97 = Automatic arm / disarm
- User 98 = Quick arming
- User 99 = Key-switch or unassigned key fob arm / disarm, or software arm / disarm on non-UL panels

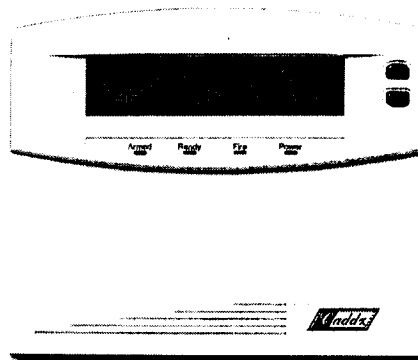


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LCD Keypads

Master Mode

- **Before any codes are entered, an LCD Keypad will display the same as in a normal mode**

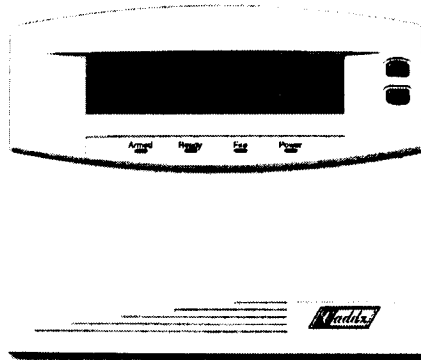


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LCD Keypads

Master Mode

- **When a code is entered, a master mode keypad will display all (and only) the partitions the user has access to, and will indicate which partitions are armed, and which are ready to be armed**

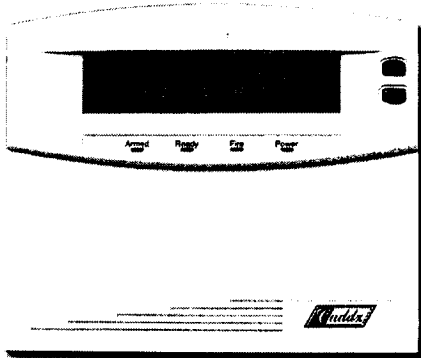


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LCD Keypads

Master Mode

- **Master mode**
- **Arming and disarming multiple partitions**
 - The numbers represent all of the areas to which this code has access. To disarm all of these areas, press the up scroll key. To arm all of the areas, press the down scroll key

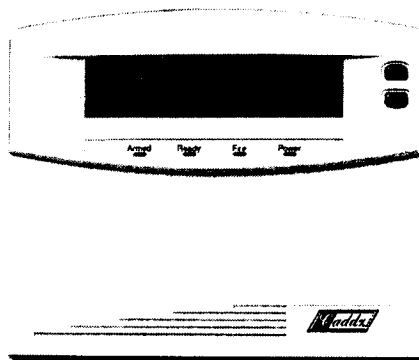


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LCD Keypads

Master Mode

- **Once the decision was made to arm all partitions, the keypad will give the user the option to disarm all partitions using a single button**

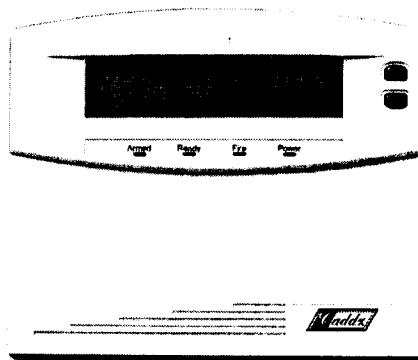


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LCD Keypads

Master Mode

- **If you press the button to disarm all partitions, it will change to give you the option to arm all. These two options toggle back and forth**

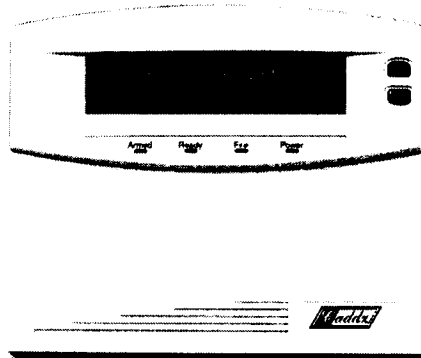


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LCD Keypads

Operating Individual Areas In The Multi-Partition Mode

- If the user only wishes to operate only one area, instead of all areas in this example, they may simply press the key indicating the area they wish to operate

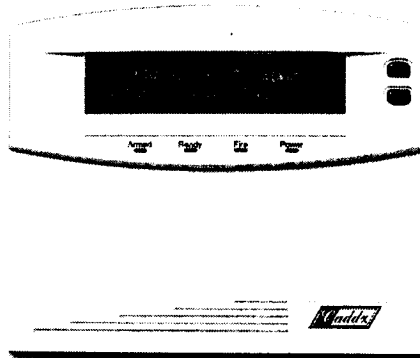


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LCD Keypads

Operating Individual Areas In The Multi-Partition Mode

- Here we have chosen Area 5 by pressing the "5" key
- Enter code one more time to arm this area
- Press "#" twice to return to multi-partition mode



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LCD Keypads

Change In Light Meanings When In Master Mode

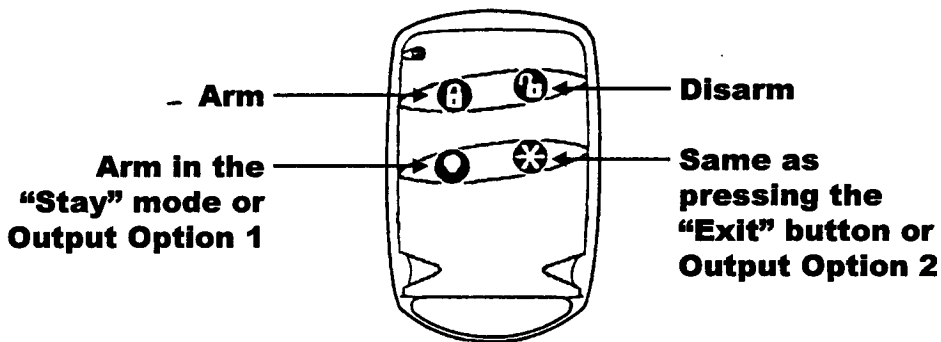
- When an LCD Keypad is programmed as a master keypad, the lights will work differently than they would in normal mode.

Light	Will Illuminate When
Armed	ALL
Ready	ALL
Fire	ANY
Stay	ANY
Chime	ANY
Exit	ANY
Bypass	ANY
Cancel	ANY
Sounder	ANY



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Key-fobs



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