

# HMS MODEL 800

# **Owner's Manual**



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# **INTRODUCTION**

Thank you for purchasing your new HMS 800 automation system. You are about to experience a new feeling of comfort, convenience, and control.

Please take a few moments to become familiar with all of the features of this fine product by reviewing this manual. Please keep this manual on file for future reference.

It is recommended that you also review the installation and operating instructions provided with your smoke and gas detectors (if used in your system). If you do not have a copy of these documents, ask your installer - **See** *Underwriter's Laboratories Requirements.* 

In the event that there are any questions, please call your installer first. If you need assistance directly from the manufacturer, call us at (717) 702-2532, between the hours of 8:00 AM and 5:00 PM, Eastern Standard Time. We will be happy to assist you.

When calling, please have the model and serial number of your unit, which can be found on the inside of the controller.

#### Underwriter's Laboratories (UL) Listing

The P/N 364245-01 HMS 800 controller has been tested and Listed by UL for the following applications:

- UL 985 Household Fire Warning System Units
- UL 1023 Household Burglar Alarm System Units (Grade A)

In a UL Listed Installation, failure to operate and program the system as described in this manual is a violation of the Listing Mark.

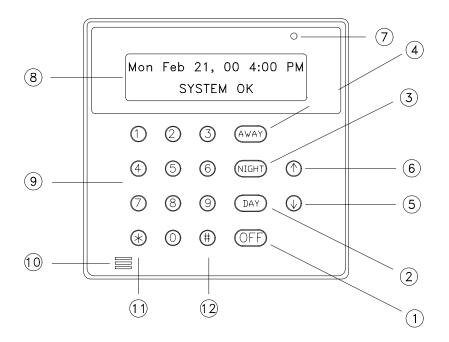
See Underwriter's Laboratories Requirements for more information.

# **OVERALL DESCRIPTION**

## **Console Operation**

The console is designed with everything that is necessary for you to program and operate your HMS 800 control and security system. Because we feel that it is very important for you to feel comfortable with the operation of your HMS 800, we recommend that you start by becoming familiar with your console.

The OFF (1), DAY (2), NIGHT (3), and AWAY (4) keys are called shortcut keys. This means that you may press these keys to go directly to that function without using the menu key.



#### 1- ' OFF '

The 'OFF 'key is used to disarm (deactivate) the security system, reset the fire and emergency alarms, and silence all sirens and sounders.

#### 2- ' DAY '

The 'DAY 'key is used to arm the security system in the Day mode. In the Day mode, the perimeter zones (doors and windows) are protected, however, the interior zones are not armed so that you may move about freely inside. In this mode, there is an entry delay on entry-exit zones.

#### 3- ' NIGHT '

The 'NIGHT ' key is used to arm the security system in the Night mode. In the Night mode, the doors, windows, and nonsleeping area motion detectors are armed. In this mode, there is no entry delay so the alarm will be activated immediately if any zone is violated.

#### 4- ' AWAY '

The 'AWAY 'key is used to arm the security system in the Away mode. In the Away mode, all zones (doors, windows, motions, etc.) are armed. There is an entry delay on entry-exit zones, so that you can disarm the system when you return through the door.

#### 5- Down Arrow

The Down Arrow key is used to scroll through menus and lists. The down arrow is used to scroll down the list from first to last (for example, when the first program is being displayed, pressing the down arrow will cause the next program to be displayed).

#### 6- UP ARROW

The Up Arrow key is used to scroll through menus and lists. The Up Arrow is used to scroll back through a list (for example, if you have already used the down arrow to scroll to an item, the Up Arrow will bring you back to a previous item).

#### 7- CONSOLE LED

The Console LED is used to indicate whether the security system is currently armed or disarmed. If armed in any of the security modes, the LED will be set to red. If the system is disarmed, the LED will be set to green. The LED will flash when a Message is displayed.

#### 8- CONSOLE DISPLAY

The Console Display is used to show the current security mode and to give useful information that will guide you through normal operations of your HMS 800 control and security system.

#### 9- CONSOLE KEYPAD

The Console Keypad is used to enter user codes for arming, disarming, bypassing, and restoring zones. In some cases, the keys (0-9) are assigned to different functions. From the top-level display, each key functions as a menu choice.

#### **10- CONSOLE BEEPER**

The Console Beeper is used to confirm a keystroke, alert user of errors and troubles, and sound upon entry and exit delays.

#### 11- ' \* ' KEY

The '\*' Key is used to cancel and return the display to the previous menu. When you are entering a number, '\*' will cancel the previously entered digits and will prompt you to reenter the number.

#### 12- ' # ' KEY

The '#' Key is used to enter or confirm a selection. It may also be used to display a menu or to offer you additional choices.

#### Normal Top-Level Display

In its normal state, the console display will show the day, date, and time on the top line, and the system status on the bottom line. If all doors, windows, sensors, etc. are closed, no zones are bypassed, and if there are no troubles, the bottom line will show "SYSTEM OK" as seen below:

If one of the doors, windows, motion, or other detector connected to the HMS 800 is open, or has detected motion, the bottom line of the display will say, "ZONE NAME NOT RDY".

For example, the display will say, "FRONT DOOR NOT RDY".

If the zone name has not been entered during set up, the display will give the zone number and zone type. This display will remain for 2 seconds, then the next zone not ready, in trouble, or bypassed will be displayed.

#### **Display Menus**

The system has been designed to be easy to operate. Whenever you press a key on the console, the top line of the display will indicate what you are doing. To the right of that is your selection or current setting. The bottom line will show a menu of your next options. To the lower right corner of the display is the direction arrow(s). Where possible, the up  $(\uparrow)$ , down  $(\downarrow)$ , and two-headed  $(\updownarrow)$  arrow characters are shown on the console display to indicate which arrow keys may be pressed at that time.

When using the arrow keys to scroll through lists of units, zones, buttons, codes, and temperature zones, only the named items are displayed. If no text description has been given to an item, it will be skipped over when scrolling through that list. You can still enter any item number to access it directly, and then scroll up and down among the named items. To look at another specific item, simply enter the item number followed by the Down Arrow key.

In some cases, the keypad keys (0-9, \*, #) are assigned to different functions or menus. A key assignment is indicated by the character key directly in front of the new function on the bottom line of the display. For example, if the bottom line says, "2=DELETE", you may press the 2 key to delete. From the top-level display, each key functions as a menu choice. Simply press the appropriate key and you will enter that menu.

#### Main Menu

The main menu is entered from the top-level display by pressing the '#' key. This menu displays all of the functions that you can perform from the console. It is not necessary to display the main menu before selecting a function if the number for the desired menu item is known. The following menu choices are available:

1=CONTROL 3=BUTTON	2=SECURITY 4=ALL	$\downarrow$
5=TEMP 7=EVENTS	6=STATUS 8=MESSAGE	¢
9=SETUP		↑

- Menu 1 Selects Control functions for controlling lights and appliances.
- Menu 2 Selects Security functions (arming, disarming, bypassing, and restoring).
- Menu 3 Allows a Button (macro) to be activated.
- Menu 4 Selects All Lights On / All Units Off commands and Leviton Scene Control commands.
- Menu 5 Allows Temperature control for Thermostats.
- Menu 6 Allows various status items to be displayed.
- Menu 7 Allows you to view an event log of security "happenings".
- Menu 8 Allows you to show, log, clear, say, or phone a message.
- Menu 9 Allows you to enter setup mode for different operating configurations.

#### **Error Beeps**

If you press a key that is invalid for the function that you are doing, the console will beep 3 times, indicating that it is not a valid option. Look at the bottom line of the display to see what keys you can press next.

#### **Trouble Beeps**

The HMS 800 constantly checks the entire system for proper operation. If trouble is found, the trouble is displayed on the bottom line and the console will beep at the rate of two beeps per second to alert you to the trouble. This feature can be turned off if desired - **See** *Set Up Arming, Beep On Trouble.* 

To silence the beeper, press the ' \* ' key.

For more information, see Trouble Indications.

#### **Confirmation Beep**

When you have successfully completed a function, such as entering a program or changing a setup item, the console will beep once.

#### Cancel

If you are ever unsure and wish to return to the top-level display, press the '\*'key. You may have to press it more than once, depending on how far into the function (menu) you are. Each time you cancel out of an operation, the console will beep once to indicate that you have canceled.

The '\*' key can also be used if you make a mistake while entering a number. For example, if you enter a 2 when you meant to enter a 3, press the '\*' key to start over.

#### **Time Out**

If you are called away from the console for any reason (to take a phone call, for instance) while you are engaged in an operation, the console will "time out" and cancel it for you after 3 minutes. The display will return to the normal top-level display.

#### **HMS 800 Maintenance**

Your HMS 800 controller and the consoles are designed to require very little maintenance.

For smoke detectors, motion detectors, and other components not manufactured by OnQ and follow maintenance procedures outlined by the manufacturer.

Consoles can be cleaned using a mild detergent and a soft cloth.

Every three years, or if the "BATTERY LOW TROUBLE NOW" indication comes on and stays on for an extended period without reason, the rechargeable battery in the controller should be replaced. The recommended battery type is a 12-volt, 7 amphour sealed lead-acid battery.

To replace the battery, disconnect the red battery wire from the battery (+) terminal. Cover the connector at the end of the wire with electrical tape to avoid its touching anything in the enclosure. Disconnect the black wire from the battery (-) terminal and cover the connector at the end of the black wire with tape. Remove the old battery. Install the new battery by reversing the removal procedure. Be very careful to connect the Black wire to the (-) terminal on the battery; Red wire to the (+) terminal.

# SECURITY SYSTEM OPERATION

#### **Disarming the Security System and Silencing Alarms**

Before going any further, you should know how to disarm your security system in the event that the alarm sounds. Turning the system OFF disarms the burglar alarm, resets the fire and emergency alarms, and silences all sirens and sounders.

Press the OFF key. OFF Now enter your four digit Code. 1 1 1 1

That's all there is to it.

Watch the display. The top line will read "DISARM" - The bottom line will read "ENTER CODE", indicating that your option is to enter your code number. For each digit that you press, an "X" will appear indicating that the key has been pressed.

After the four-digit code has been successfully entered, the console will beep once to indicate that you have correctly disarmed the system. The console LED will be set to green, and the display will return to the normal top-level system display.

If an incorrect code is entered, the console will beep three times and display " \*\*\* INVALID CODE \*\*\* ".

Re-enter your code.

In the event that you make a mistake, press the OFF key again, and then enter your master code again.

Practice disarming your system until you are comfortable with this procedure.

#### NOTES:

- > Panic, Tamper, and Fire zones are always armed, as are the Emergency buttons on the console.
- In the event that the alarm has been activated, the menu keys and the arrow keys are locked out. You must silence the alarm using the OFF, DAY, NIGHT, or AWAY keys.

#### **Arming the Security System**

Now that you know how to disarm the system, here's how to arm the security system. The security menu is used to arm and disarm the security system. To enter the security menu, from the top-level display, press the 2 key on the console keypad. The console should display:

0=OFF 1=DAY 2=NIGHT 3=AWAY 4=VACATION ↓ 5=DAY INST 6=NIGHT DLY 8=BYPASS 9=RESTORE ↑

#### 0 = OFF

The OFF key disarms the security system, resets the fire and emergency alarms, and silences all sirens and sounders.

#### 1 = DAY

The DAY mode is intended for use when someone will occupy the house or business that is being protected. In the Day mode, the perimeter zones (doors and windows) are armed; however, interior motion detectors and interior traps are not armed so that you may move about freely inside. In the Day mode, there will be an Entry Delay on the Entry-Exit zone, so that someone arriving can turn off the alarm before it sounds.

#### 2 = NIGHT

The NIGHT mode is used when you are asleep and everyone in your household is at home. In the Night mode, your doors, windows, and non-sleeping area (i.e. downstairs) motion detectors are armed. In the Night mode, there is no entry delay. The alarm system sounder will be activated immediately if any door, window, or non-sleeping area (motion detector) is tripped.

#### 3 = AWAY

Use the AWAY mode when you leave your house and no one is home. All doors, windows, and motion detectors are armed. All zones have an Exit Delay so that you will have time to leave and close the door after you arm the system. The system will be fully armed after the Exit Delay. There is an Entry Delay on the Entry-Exit zones in the Away mode, so that you will have time to turn the system off when you return through your door.

**Note** that the Entry Delay only applies if you come in through an Entry-Exit zone. If someone attempts to climb into a window, or if an interior zone is tripped before the Entry-Exit zone, the alarm will be activated immediately. If you do enter through an Entry-Exit zone first, then the other zones are disabled during the Entry Delay, in case you have to cross through another zone to get to your console (an interior motion detector, for example).

#### 4 = VACATION

This mode arms all doors, windows, and interior motion detectors (same as Away mode). There is an Entry Delay on the Entry-Exit zones. Use this mode when you are leaving for a period of days.

#### **5 = DAY INST** (DAY INSTANT)

Functions same as Day mode, however, there is no Entry Delay on any of the security zones. There will be an instant alarm if any of the zones are violated while in this mode.

#### 6 = NIGHT DLY (NIGHT DELAY)

Functions same as Night mode, however, there is an Entry Delay on the Entry-Exit zones. Use this mode if you are going to sleep but a family member is expected home at a later time.

To arm the system into one of the 6 security modes, from the security menu, choose the security mode and press the appropriate key (1 - 6).

Enter your user code number on the console keypad.

The console will beep once and the console LED will be set to red. The top line will display the security mode. The bottom line will display, "\*\*\* ARMING SYSTEM \*\*\* " to indicate that the system is being armed. The system will be fully armed after the Exit Delay expires. If arming in Away or Vacation mode and Audible Exit Delay is enabled, the console will beep until the Exit Delay has expired. During the last 10 second of the Exit Delay, the console will beep twice as fast so leave and close the door promptly.

#### **Using Shortcut Keys**

There are three shortcut keys on the console to arm the system in the Day, Night, and Away security modes, and Off to disarm, without having to go into the security menu.

From the top-level display, press one of the shortcut security keys. Enter your code number on the console keypad.

The console will beep once and the console LED will be set to red. The top line will display the security mode to indicate that you have correctly armed the system. The system will be fully armed after the Exit Delay expires.

The programmed Entry Delay is \_\_\_\_\_\_ seconds. The programmed Exit Delay is \_\_\_\_\_\_ seconds.

# **Quick Arm**

For extra convenience, the HMS 800 can be armed by simply pressing the DAY, NIGHT, or AWAY button twice, eliminating the need to enter the code.

To quick arm the system in the Away mode, from the top-level display, press (AWAY

AWAY .

The quick arm feature only works if the alarm system is in the Off mode, and if no alarms are sounding. This feature is disabled when the system is shipped. If desired, it can be enabled or disabled at any time - **See** Set Up Arming, Enable Quick Arm.

# **Bypassing Zones**

#### 8 = BYPASS

You can Bypass a zone that you do not want protected while the system is armed. Bypassing is also the only way that a tamper or panic zone can be disarmed. For example, if there is a liquor closet or gun case on a tamper zone, then you must bypass that zone to gain access to it.

Another reason to Bypass a zone is if the zone is having trouble. If a zone is causing a trouble indication, you can bypass that zone to "cut it out" of the system until repairs are made.

When a zone is bypassed, it is no longer checked for alarms. When you bypass a zone using the console (or over the phone) it will **Stay** bypassed until you **Restore** it. The console status display will show that the zone is bypassed only when the security system is disarmed. When the system is armed, it does not display bypassed zones.

To bypass a zone, from the main menu or from the top-level display, press 2 on the console keypad, then 8 for bypass. Enter the zone number followed by the '# 'key, or use the arrow keys to select the zone. After the zone is entered, you will be prompted to enter your security code. The bottom line will now read "ZONE NAME BYPASSED" to remind you that the zone is bypassed.

If a fire zone is bypassed, the console will continue to beep until that zone is restored - See Restoring Zones.

#### **Auto-Bypass**

In order to prevent the alarm from sounding unexpectedly if a window or door is open when the system is armed, the HMS 800 will automatically bypass the zone if it is opened when the system is armed.

**Note** that there is an exit delay before the system is armed in any mode. The bypass will only take place if the zone is **not ready** when the exit delay is over and the system actually arms itself. When a zone is Auto-Bypassed, it will be automatically restored the next time you arm or disarm the system. The auto-bypass is recorded in the event log as "ZONE NAME BYPASSED".

To prevent any zone from being bypassed unintentionally, you should always look for "SYSTEM OK" on the display before arming and leaving the premises.

The Auto-Bypass feature can be disabled if you do not want the system to automatically bypass open zones. If the auto-bypass feature is disabled, the alarm will sound if a zone is open and the system is armed.

NOTE: The Auto-Bypass feature is disabled on UL Listed Installations.

#### **Restoring Zones**

#### 9 = RESTORE

Restoring a zone puts it back on active duty in the system. When restored, the Bypassed indication will no longer be displayed on the status line and the zone will be checked for alarms.

To restore a zone, from the top-level display, press 2 on the console keypad, then 9 for restore.

Enter the zone number followed by the '#' key, or use the arrow keys to select the zone. Press '0' as the first key to restore all zones. The 0 = ALL choice is removed once a digit key or the down arrow is pressed. After the zone or all zones is entered, you will be prompted to enter your code.

# What To Do When You Come Home

Entry through a door:

If you enter your home while the system is armed in the Day or Away modes, using your normal entry door:

- Console beeper comes on display indicates: " \*\*\* DISARM SYSTEM \*\*\* PRESS OFF THEN CODE"
- Any lights or control modules programmed to come on for the door that you used will do so.
- The system will wait the Entry Delay time.

You should go to your console (or telephone) immediately and turn the security system off. If you wish, you may go directly to a different security mode, rather than turning the system Off.

If you return home and hear the alarm sounding or the outdoor lights are flashing, **DO NOT ENTER**. Use a neighbor's phone to call for help.

#### What Happens When the Alarm is Activated

#### **Burglar Alarm Activated**

If someone enters through any zone other than an Entry-Exit zone, if the security system is in the Night mode, or if the security system is not turned off during the Entry Delay:

- The sounder is activated, which makes a loud, continuous sound.
- The display shows the type of alarm and the zones that have been tripped: "BURGLAR ALARM! - ZONE NAME TRIPPED".

If more than one zone is tripped, then the bottom line will show each zone tripped for two seconds.

- The When Alarm macro is activated. Any units programmed to come on will do so.
- The Flash For Alarm Unit Number begins to flash on and off.
- The system now waits the Dial Out Delay. (0 60 seconds)
- If programmed, the in-house phones are seized (disconnected) and the HMS 800 begins to dial out.

If you are having your system monitored by a central station, the central station will be sent a code representing the type of alarm (burglary) and zone involved. In most cases, the central station will call back, requesting your password or passcode.

If you are not using central station monitoring but are using the voice dial out capability, the system looks at the Dial Order to determine which number to call first, and calls that number.

If you are using both central station monitoring and voice dial out, then the voice dial out is delayed by five minutes to give the central station time to call you back.

For more information on the digital and voice dialer - See Digital Dialer and Voice Dialer.

- The system continues to sound all alarms and flash the flashing light for 1-30 minutes after the alarm is activated.
- After a 1-30 minute period, the sounder is turned off, and the alarm system resets itself. The console beeper stays on. If a zone is tripped after a reset, the sounder will again be activated, and the dialer will again dial out.

At any time, the alarm system can be turned off at the console.

#### **Fire Alarm Activated**

When the fire alarm is activated by the smoke/fire detector(s), the alarm responds exactly as described under Burglar Alarm Activated, except:

- The console display reads, "FIRE ALARM! ZONE NAME TRIPPED".
- The sounder will activate in a 3 pulse temporal pattern to distinguish the fire alarm from the burglar alarm.
- If programmed, the in house phones are seized (disconnected) and the HMS 800 begins to dial out.

The fire alarm takes priority over the burglar alarm, however, if a gas alarm is already active, it will not override the gas alarm.

NOTE: If multiple alarm types occur, such as both Fire and Police, the display will alternate between the alarm types.

#### Gas Alarm Activated

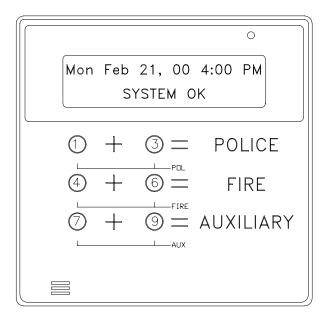
When the gas alarm is activated, the alarm responds exactly as described under Burglar Alarm Activated, except:

- The console display reads, "GAS ALARM! ZONE NAME TRIPPED".
- The sounder will pulse on off on, then an extended off period to distinguish it from the burglar or fire alarm.
- If programmed, the in house phones are seized (disconnected) and the HMS 800 begins to dial out.

The gas alarm takes priority over the burglar alarm, however, if a fire alarm is already active, it will not override the fire alarm.

#### **Emergency Keys**

Emergency alarm conditions can be activated through the console. These conditions (Fire, Police, and Auxiliary) are initiated with the simultaneous depression of two keys for approximately 1-second.



**NOTE:** The Emergency keys are always armed. The Fire and Auxiliary Emergency alarms are silenced by pressing the '\*'key. To cancel a Police Emergency alarm you must press the Off key and enter your code.

#### **Police Emergency**

When the 1 key and the 3 keys are pressed simultaneously, the Police Emergency alarm is activated. This alarm operates exactly the same as described for Burglar Alarm Activated except:

• The console display indicates: "BURGLARY! - POLICE EMERG TRIPPED".

#### **Fire Emergency**

When the 4 key and the 6 key is pressed simultaneously, the Fire Emergency alarm is activated. This alarm operates exactly the same as described for Police Emergency Button except:

- The sounder activates in a 3 pulse temporal pattern distinguish the fire alarm from the burglar alarm.
- The console display will read: "FIRE ALM FIRE EMERG TRIPPED".

The Fire Emergency alarm can be turned off at any time by pressing the '\*'key.

#### **Auxiliary Emergency**

When the 7 key and the 9 key is pressed simultaneously, the Auxiliary Emergency alarm is activated.

• The console beeper comes on - display indicates:

"AUX ALARM! AUX EMG BTN TRIPPED".

> The console beeper continues to sound until the alarm is disarmed.

#### **Duress Code Entered or Duress Alarm Activated**

(See *Duress Code* for a description of when to use)

In the event that you enter your duress code or a Duress zone is tripped, the system performs a silent dial out as follows:

- No alarms, lights or console beepers are activated. The system does not display the duress alarm.
- The system waits the dial out delay, then begins to dial out.

#### **Alarm Reset**

The alarm system will reset itself after the outside siren has been on for 1-30 minutes. When the alarm system resets, any zone that is **ready** is reactivated, so the alarm system will be activated again if the zone is tripped. If a zone remains **not ready** (i.e. a door has been left open) it will be automatically bypassed when the alarm resets.

The console will display, "(FIRE, BURGLAR, or EMERGENCY) ALARM RESET" when this happens.

#### Alarm Cancel

At any time, you can silence your alarm system by pressing the Off key and entering your code. If the system has reported, or is in the process of reporting an alarm to a central station, it will send the alarm code followed by a code indicating that the user has canceled the alarm. If an alarm is canceled before the dial out delay has expired, the system will not report any alarm.

If an alarm is canceled during a voice dial out, the system hangs up immediately.

# **Trouble Indications**

The HMS 800 constantly monitors the alarm zones and several internal matters and will alert you if it detects trouble. The particular trouble is indicated on the bottom line of the display and a trouble signal is given by beeping the console beeper continuously, 2 beeps per second.

When any trouble condition occurs, the console will beep twice per second and continue to beep until the '\*' key (cancel) is pressed to acknowledge the trouble. The console will say "TRBL NOW" (trouble now) if the trouble condition actually exists while you are looking at the console. It will say "HAD TRBL" (had trouble) if the trouble occurred and then corrected itself.

The following are trouble indications and their meanings:

- ZONE NAME TRBL NOW or HAD TRBL: If the reading for a zone becomes abnormal, trouble will be indicated on that zone -See Status \ Test. Excessive resistance in the contact and wiring usually causes trouble on security zones. If the cause is not obvious, call your installer for service.
- AC POWER OFF TRBL NOW or HAD TRBL: Indicated if the normal house current powering the HMS 800 controller is interrupted for more than 3 minutes. If this happens without good cause, check the wall mounted transformer to ensure that it hasn't come out of the wall socket; check to see that the socket has power; check the MAIN fuse (F3) on the HMS 800 controller to be sure that it is good.
- BATTERY LOW TRBL NOW or HAD TRBL: Every hour, the HMS 800 takes a dynamic test of the battery. If the battery voltage is too low, then the console will indicate "BATTERY LOW". If this happens, make sure that the battery is connected. The "BATTERY LOW" indication will remain until the next battery test is executed, 1 hour later, or when a Status | Test command is given.
- COMMUNICATOR TRBL NOW or HAD TRBL: Indicated if the digital communicator (not the voice dialer) was unable to make contact with the Central Station after trying both numbers multiple times. If this happens, there could be a problem with the system, central station, or the phone line. Call your installer for service.
- FUSE TRBL NOW or HAD TRBL: Indicated when the solid state fuse that protects the Auxiliary power supply opens. The fuse will automatically reset when the fault condition is cleared.
- > PHONE LINE DEAD TRBL NOW or HAD TRBL: Indicated if the phone line is dead for more than 1 minute.

To silence the trouble beeps on the console, press the '\*'key. If more than one type of trouble has occurred, the display will show each one for two seconds. Pressing the '\*'key will acknowledge all trouble indications.

If the trouble condition occurs again, the console beeper will beep again - See Set Up Arming, Beep On Trouble if you wish to disable the beeper.

NO CONTROLLER DATA: Indicated in the event that the console's alarm functions are no longer operational. This may indicate a wiring problem to the console or a more serious problem. Call your installer for service.

#### Codes

There are 8 user codes that you may assign to users of the system. All HMS 800 codes are 4 digits in length. A code can be any number from 0001 to 9999. Each user should be assigned a security code with an authority level and times in which the code will be valid. Memorize your codes! Don't give them to anyone who doesn't need to know them.

The levels of authority that you can assign to a user code are Master, Manager, and User.

#### **Master Code**

The Master code allows complete access to the entire system. Only the owner(s) or the one(s) who will govern the system should have and use the master code.

User code 1 is always set to a Master code - See Set Up Codes.

#### **Manager Code**

The Manager codes can arm/disarm the security system during assigned times. The Manager code can access functions that are code protected in High Security mode. Managers may also access the system from an outside telephone line.

#### **User Code**

User codes can only be used to arm and disarm the security system during assigned times.

#### **Duress Code**

If you are forced to disarm the system against your will by an intruder, disarm it as you normally would, but use the Duress Code instead of your normal code. The system will disarm normally. No sirens will sound, no lights will flash, but the HMS 800 will perform a silent dial out and say that this is a silent alarm.

To stop a silent dial out, turn your security system off the usual way, pressing Off key, then your code.

#### **Panic Switches**

If you have had panic switches installed, they are always armed. Pressing a panic switch will cause the alarm to activate. This alarm can only be silenced by pressing the Off key and a valid code on the console.

#### **Testing Your System**

OnQ recommends testing your system on a weekly basis to ensure that you are fully protected.

- 1. Notify your Central Station that you intend to test the system. To test the siren, press the 1 and 3 keys simultaneously. Press OFF and enter your Code to cancel the alarm and silence the siren.
- 2. To test the security zones, you will need a partner to walk around your home and open and close all doors, windows, etc. that are connected to the system while you watch the console. Have a partner open each door and window, then close it. The display should show the zone name as being "NOT RDY" and then return to "SYSTEM OK" when closed.
- 3. Have your partner walk in front of all motion detectors (if installed) and verify that the console responds in a similar fashion.
- 4. Test your smoke detectors as recommended by the manufacturer. Be ready to silence the alarm system as soon as it sounds.
- 5. From the top-level display or from the main menu, press the 6 key then the 4 key.
  - The Battery reading should be over 200 See Status \ Test.
- 6. Pick up an inside phone and press the # key. When the menu is spoken, press 8, Then 3. The HMS 800 should say "ADDRESS IS: "and play your name and address. If it does, the telephone dialer, telephone access and telephone control systems are all working correctly.
- 7. If you wish to test your system's link to your Central Station monitoring service, call them first and inform them that you will be testing your alarm system. Set off the alarm, allowing sufficient time for any dial out delays that you may have, then turn the alarm system Off. The Central Station should receive the alarm code.

# CONTROL

The control features of the HMS 800 make it easy and convenient to control almost any light or appliance from the console or over the telephone. You may also have your heating and air conditioning (HVAC) under control of the system, which will allow you to save energy dollars by setting the temperature appropriately when you are home, asleep, or away.

Furthermore, the HMS 800 can be used to program lights to make your home look occupied as a deterrent to potential thieves.

The methods that the HMS 800 uses to control different things are:

- ALC Switch Modules for lights and appliances.
- X-10, X-10 Pro, Leviton, PCS, ACT, and compatible modules for lights and small appliances.
- HMS Communicating Thermostats for controlling Heating, Ventilation, and Air Conditioning Systems.
- Direct Relay Control for sprinklers, lighting, electric heating, etc.

An HMS 800 will control:

- ➢ 16 ALC Switch Modules
- ▶ 16 X-10 modules (one house code)
- > 2 Voltage Outputs (expandable to 10)
- > 2 HMS Communicating Thermostats

HMS 800 also has 8 internal "flags" that are used for programming conditionals and running buttons.

#### **ALC Switch Modules**

The ALC Switch Modules are intended for installation in homes, which have been pre-wired for installation of ALC system products. HMS 800 controls lights and appliances by sending commands over the ALC signal wiring to ALC Switch Modules. ALC Switches communicate with the HMS 800 over low voltage signal wire. They are two-way devices, so the controller always knows the actual status of the switch. In addition, ALC switches can be used to set scenes by triggering macros in HMS 800.

When ALC Lighting Control Modules are being used, it is possible to ramp the lighting level of an ALC Dimmer Switch to a new level at a controllable ramp rate.

#### ALC Module Types

There are three types of switch modules: Dimmer Switch Modules, Relay Switch Modules, and Program Switch Modules.

#### X-10 Modules

The HMS 800 controls lights and appliances by sending commands over your existing electrical wiring to special switches, outlets, receptacles, and modules, collectively referred to as X-10 **MODULES**. Each module (or group of modules) is assigned a House Code and a Unit Number so that the HMS 800 can control the modules individually. When a module hears a command from the HMS 800 for its house code and unit number, it executes the command.

Any module that is "X-10 Compatible" will work with the HMS 800. The modules come in various types.

#### **House Codes**

All of your X-10 modules, controlled by your HMS 800, must be set to a House Code. A house code can have 16 unit numbers. The House Code is set on each module using the dial. House codes are letters A through P.

#### **Unit Numbers**

Each module has its own Unit Number. Any unit number that is not being used for an ALC Switch Module may be used for an X-10 Module. ALC Switch Modules and X-10 Modules may not be assigned to the same unit number.

Each ALC switch module must have a unique address. ALC switch modules may NOT have the same address. ALC Modules have 16 possible addresses, 1 through 16.

More than one X-10 Module can have the same unit number if you want to control multiple lights with the same unit number. X-10 Modules have 16 possible unit numbers, 1 through 16.

HMS 800 systems have 36 unit numbers. They consist of ALC and X-10 module unit numbers, hardwire voltage output unit numbers, and internal flag unit numbers as follows:

HMS 800 Unit Numbers	Modules / Output Unit Numbers
1 - 16	X-10 modules 1 - 16, House Code X ("X" represents the setting on the HMS 800)
	AND/OR
	ALC addresses 1 - 16
17 - 24	Hardwire Outputs (Fully Configurable) on Expansion Module*
25	Thermostat Output (Fully Configurable)
26	Bell Output
27 - 28	Hardwire Outputs 1 and 2 (Fully Configurable)
29 - 36	Internal Flags

"\*" If P/N 364387-01 HMS 800 Expansion Module is used

#### **Scrolling Through Names**

The HMS 800 stores names for Units, Zones, Buttons, Codes, and Temperatures so that you don't have to remember that "UNIT 5" is the "DEN LIGHT" and "ZONE 1" is the "FRONT DOOR". In general, any time you enter a zone, unit, button, code, or temperature number, you can press the down arrow key to display its name, then use the up and down arrow keys to scroll through the list of other names. This is true when entering commands and programming on the console.

#### **Controlling Units**

The control menu is used when controlling lights and appliances. To enter the control menu, from the top-level display or from the main menu, press the 1 (CTRL) key on the console keypad. HMS 800 will automatically display the first named item in that list. The down arrow key can then be used to scroll through the list, and the ' # ' key is used to select the item. If the specific item number is known, enter the item number followed be the ' # ' key, or scroll up and down among the named items.

After the unit has been selected, press the '#' key. The console will display:

Porch Light (Unit Name) 0=OFF 1=ON 2=DIM 3=BRT ↓ Porch Light (Unit Name) 4=LVL 5=RMP 9=TIM #=STA↑

If a unit is entered that is not capable of dim and bright commands, only a single menu is shown.

Porch Light (Unit Name) 0=OFF 1=ON 9=TIM #=STA When you press the 0 (OFF) or 1 (ON) key, the console will beep once, the unit number will be turned Off or On, then the display will return to the top-level display.

#### **Dimming and Brightening Lamps**

To dim a unit, from the control menu, enter the unit number (or scroll to it using the arrow keys), then press the '#' key.

Press the 2 key to dim the specified unit. The console display top line will read "UNIT NAME" (unit name being the description of the unit number), and the bottom line will read "STEPS DIMMER (1-9)".

Porch Light STEPS DIMMER (1-9):

Press a number, 1 - 9 to indicate how much you want to dim the unit. 1 is a little dimmer, 9 is a lot dimmer. Usually, 2 or 3 steps are best. The console will beep and the light will be dimmed.

To *brighten* a unit, from the control menu, enter the unit number (or scroll to it using the arrow keys), then press the '# 'key on the keypad. Press the 4 key to brighten the specified unit.

Press a number, 1 - 9 to indicate how much you want to brighten the unit.

#### **Lighting Level**

Press the 4 key to set the desired lighting level of the specified unit.

Enter a number (0-100) to indicate the lighting level (intensity) of the unit.

```
LIGHTING LEVEL: 0-100%
```

0 =No Light / 50 = Light to half intensity / 100 = Light to full intensity

The console will beep and the lighting level will be adjusted. The top line of the console display will read:

Porch Light LVL 65

#### **Ramp Command**

When ALC Lighting Control Modules are being used, it is possible to ramp the lighting level of an ALC Dimmer Switch to a new level at a selectable ramp rate.

Press the 5 (RAMP) key to select the ramp command. The keypad will then prompt you for the desired ramp rate:

ENTER RATE: MINUTES (1-99) #=H/M/S

The rate specifies the time it takes the switch to go from full off to full on, or from full on to full off. Thus a level change from full off to 50% on will take half the time specified.

Before any digits are entered, the '#' key may be used to switch between specifying the rate in minutes, seconds, and hours. After you choose between minutes, seconds, and hours, enter the rate (2-99 seconds, 1-99 minutes, or 1-10 hours).

Next, enter a number (0-100) to indicate the final lighting level (intensity) desired.

LIGHTING LEVEL: 0-100%:

The keypad will beep and the lighting level will be adjusted. The keypad display top line will read:

DEN LIGHTS 40% AT 1H

## **Timed Commands**

The timed commands allow a units to be turned on or off for a specified period of time. The unit may be turned On for 1-99 (minutes or seconds), or 1-18 hours, then Off; or turned Off for 1-99 (minutes or seconds) or 1-18 hours, then On.

X-10 units (1-16) may also be dimmed or brightened for a specified period of time. The unit may be dimmed (1-9) steps for 1-99 (minutes or seconds), or 1-18 hours, then brightened back to its previous level; or brightened (1-9) steps for 1-99 (minutes or seconds), or 1-18 hours, then dimmed back to its previous level.

To enter a timed command, you must first enter the unit that you want to control. From the control menu, enter the unit number (or scroll to it using the arrow keys), then press the '# 'key.

To enter a time, press the 9 (TIM) key. Before any digits are entered, the '#' key may be used to switch between minutes, seconds, and hours. After you choose, enter a time (1-99 for seconds & minutes, and 1-18 for hours). Once the time is entered, the control menu is redisplayed with the specified times shown. For example:

Porch Lights For 2H 0=OFF 1=ON 2=DIM 3=BRT↓

#### Status of a Unit

To see the last command sent to an X-10 unit or the current status of an ALC unit, from the control menu, press the '#' key. The last command along with any time (hh:mm:ss) remaining on a timed command will be displayed.

Porch Light 1:22:10 LAST COMMANDED ON

At this point, one of the menu choices may be entered or the '\*' or '#' key may be pressed to redisplay the menu.

#### **Internal Flags**

A Flag is an internal setting (think of it as a virtual switch – it can be turned on and off) used to conditionalize a program (based on the state of the switch), or to run macro buttons when the Flag is turned Off (0) or On (1-255).

Any Flag can also be used as a counter. Counters can be incremented, decremented, or set to a specific value (0 to 255).

When a counter is decremented to zero, the "When Unit Off" macro is executed. A counter will not decrement below zero. The counter will, however, roll over from 255 to 0 when incremented. The "When Unit Off" macro will be executed when the counter rolls over. This allows two counters to be cascaded to form a larger counter.

When the counter is incremented from 0 to 1, the "When Unit On" macro will execute. This will allow you to execute a command when the Flag is incremented (counting up) from zero.

The Set command is used to set the counter to a value from 0 to 255. No macros are executed when the counter is set to zero or when the counter is changed from zero using the set command. This allows a counter to be reset without executing macros or programs associated with the counter counting to zero. Turn the Flag On or Off to have the associated macro execute. When the Flag is turned Off, its value is set to zero (0). When the Flag is turned On, its value is set to one (1). The counter is considered On for program conditions if it is nonzero (1-255).

Flags can be turned Off, On, Decremented (DEC), Incremented (INC), Set, and Timed ON/OFF.

#### **Controlling Outputs**

The HMS 800 has 2 (expandable to 10) outputs that can be used to switch relays. Outputs 1 and 2 are controlled by unit numbers 27 and 28. These are hardwired outputs that are connected directly through the HMS 800 and not through a module. If you have something connected to these outputs, such as a sprinkler system, your dealer will explain its operation.

- Outputs cannot be brightened or dimmed.
- Outputs are **not** affected by All ON or All Off commands.

# All On / Off

The All On/Off menu is used to turn all lights on (X-10), all units on (ALC), and all units off (X-10 & ALC). To turn on all light modules, from the top-level display or from the main menu, press the 4 (ALL) key on the console keypad.

#### All Lights On

At the ALL prompt, press the 1 (LIGHTS ON) key.

The console will beep, and a command will be sent that turns all X-10 Lamp Modules and all ALC Switch Modules On. X-10 Appliance Modules do not respond when the All Lights On command is sent.

All X-10 / ALC unit numbers 1 - 16, by factory default, respond to the All-On command.

NOTE: The All On and All Off functions can be changed, if desired - See Set Up Misc, All On And All Off.

#### All Off

To turn off all modules (lamp and appliance modules included), from the top-level display or from the main menu, press the 4 (ALL) key on the keypad, then press the 0 (OFF) key.

The console will beep, and a command will be sent that turns all Modules off. All X-10 / ALC units, by factory default, respond to the All-Off command.

#### **Leviton Scene Control**

HMS 800 supports Leviton Scene Control (a feature found in certain Leviton Switches. There are 16 Scenes that can be set and executed. The Leviton Switches are divided into "lighting groups" of four units each. Each of these lighting groups can be set to four different Scenes. Once the Scenes have been set up, a command can be sent to the units in that Scene to simultaneously return to the preprogrammed lighting level.

#### Scene

There are 16 Scenes that can be set and executed. The X-10 units (unit numbers 1-16) are divided into "lighting groups" of four units each. Each of these lighting groups can be set to four different Scenes. Scenes 1-4 apply to the first four unit numbers (units 1-4), Scenes 5-8 to the next four unit numbers (units 5-8), and so on. Thus an easy correspondence is made between Scene numbers and unit numbers.

	SCENES																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1	Х	Х	Х	Х												
	2	Х	Х	Х	Х												
	3	Х	Х	Х	Х												
	4	Х	Х	Х	Х												
	5					Х	Х	Х	Х								
RS	6					Х	Х	Х	Х								
UNIT NUMBERS	7					Х	Х	Х	Х								
M	8					Х	Х	Х	Х								
N	9									X	Х	Х	Х				
LI	10									X	Х	Х	Х				
S	11									X	Х	Х	Х				
	12									X	Х	Х	Х				
	13													Х	Х	Х	Х
	14													Х	Х	Х	X
	15													Х	Х	Х	X
	16													Х	Х	Х	Х

X - Corresponds to the unit numbers in a Scene.

#### **Scene Commands**

Scene Commands are used to Set Scenes, issue a Scene On command, and issue a Scene Off command. To issue Scene Commands, press the 2 (SCENE) key. You are prompted to enter a Scene number.

ENTER SCENE: 1-128

Enter the Scene number (1-16) followed be the '# 'key.

SCENE 1 0=OFF 1=ON 2=SET

#### **Scene Set Command**

The Scene Set command is used to set up Scenes for a lighting group. Set the desired lighting level for each of the units in the lighting group for the first Scene. The desired lighting level may be set manually at the switch, or by a command issued from the controller. After the desired lighting levels are set, press the 2 (SET) key to save the first Scene for that group. Commands are sent to each of the four units in that group to instruct each unit to save its current lighting level as the lighting level for the Scene. Repeat these steps to set up each of the remaining three Scenes for that lighting group.

#### **Scene On Command**

Once the Scenes have been set up, press the 1 (ON) key to command the four units in that Scene to return to the lighting level set by the Scene Set command for that Scene.

#### Scene Off Command

Once the Scenes have been sent, press the 0 (OFF) key to command the four units in that Scene to turn off.

#### Notes:

- 1. When sending Scene Commands, the controller must be configured to allow Extended Code transmissions.
- 2. The Scene Commands always apply to a group of four consecutive units, which are units 1-4, 5-8, 9-12, and 13-16. You must address the units accordingly so that the desired units fall into the appropriate lighting groups.
- 3. The actual Extended Code Scene commands use a "group reference" that matches that sent by a Leviton Wall-Mounted Scene Controller set to the same address as the first unit in the lighting group. This allows wall-mounted controllers to be easily used for manual Scene selection.

#### **Buttons**

A powerful feature of the HMS 800 is the ability to program **Buttons**. A Button (also known as macro) is a number on the keypad that is programmed to run a series of commands when it is pressed. Buttons are used to program functions that are specific to your home and lifestyle.

Using a button, you can activate several commands at once. You can personalize 16 buttons with descriptive names. Following are some examples of programmed Buttons:

#### Leave for Work (Button 1):

- turn off all lights
- set thermostat to energy saving settings
- arm the security system in the Away mode

#### Go to Bed (Button 2):

- turn off all lights
- dim outdoor lights 20% to extend bulb life and reduce consumption
- arm security in Night mode

#### **Dinner for Two** (Button 3):

- dim the dining and living room lights
- turn on the porch light
- turn off all the bedroom lights
- dim the den light
- turn on the stereo

To activate a preprogrammed button, from the top-level display or from the main menu, press the 3 (BTTN) key on the console keypad. Select the button (macro) to be activated by using the arrow keys to scroll through a list of buttons, followed by '#'.

For extra convenience, event buttons are automatically activated when you change security modes, or when security zones open and close. This powerful feature allows you to set your system up so that control functions are performed when you arm your security system (such as turning off all lights and setting back the HVAC system). Door contacts and motion detectors can be used to turn on lighting automatically, then turn it off a few minutes after the person has left, and then only if it's dark.

#### **Temperature Control**

Your HMS 800 can control temperatures of your heating and cooling system, monitor the outside temperature, and detect high and low temperatures in special situations. Other appliances can be controlled by temperature as well - such as a bathroom heater or a ceiling fan.

The temperature menu is used to control HMS Communicating Thermostats and Temperature Sensors. The status of each of these may also be displayed on the console.

HMS Communicating Thermostats provide energy savings, comfort, and convenience by setting the HVAC system(s) to the proper temperature based on whether you are home, asleep, away, or vacation. The temperature can be reported as well as controlled over any telephone. A freeze alarm feature will cause a dial out if the temperature falls below a preset level.

The HMS Communicating Thermostats are digital heating and cooling thermostats that can be controlled be the user and by remote control. There are models for conventional single stage (gas or electric), heat pumps, and multi stage heating and cooling systems. All models offer programmability, stand-alone operation, and robust communication to the HMS 800 system.

#### **HMS Communicating Thermostats**

The following control actions are allowed for HMS Communicating Thermostats:

- Set heating setpoints
- Set cooling setpoints
- Set system mode (Off / Heat / Cool / Auto)
- Set fan (On / Auto)
- Turn hold On and Off

NOTE: Not all actions are applicable to every type of thermostat.

To enter the temperature menu, from the top-level display or from the main menu, press the 5 (TEMP) key on the console keypad.

You will be prompted with the first named temperature zone (i.e. Upstairs). The temperature zone can be specified by entering the temperature zone number followed by the '#' key, or by pressing the arrow keys to scroll through the list of temperature zones. Press the '#' key when the desired temperature zone is shown. Temperature zones 1 and 2 are for OnQ thermostats.

TEMPERATURE: ENTER TEMPERATURE ZONE  $\downarrow$ 

After the '#' key is pressed, a menu appropriate for the type of temperature zone is shown. For Celsius temperatures, press the '# 'key prior to entering the temperature to make the number negative. The Celsius temperature may also be specified in 0.5 degree steps, if three numeric digits are entered. The third digit adds a .5 to the first two digits, if it is anything other than zero. Enter a leading zero, if necessary.

For OnQ heat/cool thermostats:

Upstairs 1=MODE 2=HEAT 3=COOL↓ Upstairs 4=FAN 5=HOLD #=STAT↑

To change the system mode on a thermostat, press 1 (MODE). A menu presenting options appropriate for that type of thermostat is then displayed.

For heat/cool thermostats with auto changeover:

```
Upstairs MODE
0=OFF 1=HEAT 2=COOL↓
Upstairs MODE
3=AUTO ↑
```

To change a temperature setting, press 2 (HEAT), 3 (COOL), or 2 (TEMP) as appropriate:

Upstairs HEAT ENTER TEMPERATURE:

Upstairs COOL ENTER TEMPERATURE:

Upstairs TEMP ENTER TEMPERATURE:

Enter the desired temperature then press the '#' key.

The fan control on a thermostat may be switched between on and auto by selecting 4 (FAN) from the temperature menu:

Thermostats may be switched between hold mode and the normal run mode. While in hold mode, the thermostat does not respond to scheduled temperature changes but instead maintains the temperature at its current setting. The thermostat will then return to its scheduled operation setting once hold mode is removed.

The hold menu is used to control hold status of a thermostat. The hold menu is entered by selecting 5 (HOLD) at the temperature menu. Through this menu you may turn hold mode on and off.

For a heat/cool thermostat, the menu displayed is:

Turn hold mode Off or On by selecting 0 (OFF) or 1 (ON), respectively.

For a heat/cool thermostat, the status shows the current temperature, the heating and cooling temperature setpoints, whether hold mode is on, the system mode, and the fan On/Auto selection.

Upstairs	TEMP:	78	
HEAT: 70	COOL:	78	$\downarrow$

Upsta	irs			
MODE:	AUTO	FAN:	AUTO	Ŷ

If hold mode is On, "HOLD" is shown:

Upsta:	irs	HOLD		
MODE:	AUTO	FAN:	AUTO	↑

For a heat or cool thermostat, the status shows the current temperature, the temperature setpoint, whether hold mode is on, the system mode, and the fan on/auto selection.

Upstairs	TEMP	: 71	
HEAT: 70			$\downarrow$
Upstairs			
MODE: HEAT	FAN:	AUTO	↑

For a setpoint only thermostat, the status shows the current temperature, the setpoint and whether hold mode is on.

Upstairs	TEMP:	73
SETP: 76	HOLD	

#### Control actions for temperature sensors:

- Set low setpoint
- Set high setpoint

To enter the temperature menu, from the top-level display or from the main menu, press the 5 (TEMP) key on the console keypad. You will be prompted with the first named temperature zone (i.e. Upstairs). The temperature zone can be specified by entering the temperature zone number followed by the '# 'key, or by pressing the arrow keys to scroll through the list of temperature zones. Press the '# 'key when the desired temperature zone is shown.

TEMPERATURE ZONE: ENTER TEMPERATURE ZONE  $\downarrow$ 

After the '#' key is pressed, a menu appropriate for the type of temperature zone is shown.

Upstairs 2=LOW 3=HIGH #=STAT

To set a temperature setpoint, press 2 (HEAT) or 3 (COOL).

For Celsius temperatures, press the '#' key prior to entering the temperature to make the number negative. The Celsius temperature may also be specified in 0.5 degree steps if three numeric digits are entered. The third digit adds a .5 to the first two digits if it is any- thing other than zero. Enter a leading zero if necessary.

The current status of a temperature zone may be displayed by selecting ' # ' (STAT) key from the main temperature menu. The status display differs depending on the temperature zone type.

For a temperature sensor, the status shows the current temperature and the Low and High setpoints:

Outdo	or	TEMP:	85
LOW:	70	HIGH:	80

When you are finished, press the '\*' key twice to return to the top-level display.

#### **Freeze Alarms**

Thermostats can also be used to report potential freeze conditions before damage to pipes and appliances can occur. An alarm will be generated if a temperature below 40 degrees is detected by any Thermostat in the system. The alarm will not clear until the temperature exceeds 45 degrees.

When the alarm is initiated, the console beeper will be turned on and an alarm dial-out sequence will be initiated after the normal dial-out delay. Both voice and digital communicator dial-outs may be used. The voice dial-out will follow the Dial Order as specified in Set Up Dial. The digital communicator will report the Freeze Alarm Code to the Central Station.

The sounder is not activated for freeze alarms (this feature must be activated by your installer).

#### **Outdoor Temperature**

A P/N 363443-01 Outdoor Temperature Sensor is available which may be mounted outdoors to read the outdoor temperature. The zone used for the outdoor sensor is set up as an outdoor temperature zone type. When set up this way, the corresponding auxiliary output is not dedicated to the P/N 363443-01 and may be used for other purposes. Also, freeze alarms will not be generated by the outdoor temperature.

Outdoor temperature zones have a High and Low temperature associated with them that can be used for control purposes. An example where the bathroom heat is turned on if the outdoor temp goes below 60 degrees is shown in the Programming section.

#### **Temperature Control of Appliances**

You can control appliances connected to X-10 and ALC modules (such as a ceiling fan) using the **Button** feature of the HMS 800. For example, the ceiling fan can be programmed to come on if the temperature goes above the High temperature (a programming example to set this up is shown in the Programming section). On/off control of the ceiling fan is done from the 1 (CONTROL) menu. Use the ceiling fan's unit number to turn it On or Off. The temperature sensor and the ceiling fan are linked together by a button program.

#### **Temperature Alarms**

Temperature sensors can be used to signal that a temperature (in a special room, like a greenhouse or wine cooler) has gotten too high or too low. If the temperature in this zone goes above the High setpoint or below the Low setpoint, the console beeper is activated (inside and outside sirens are not activated) and the central station and/or voice dialer is called. Use the zone number that the temperature sensor is connected to in place of the unit number.

NOTE: Setting a High or Low temperature to 0 takes it out of service.

#### Status

The Status function is used to display the status of various items in the system. To enter the status menu, from the top-level display or the main menu, press the 6 (STATUS) key on the console keypad.

STATUS 1=CTRL 2=ZONE 3=SUN↓ 4=TEST 5=TEMP

#### 1 = CTRL (CONTROL UNITS)

The Control Status menu allows you to view and scroll through the status of each control unit. To enter the Unit menu, from the Status menu, press the 1 (CTRL) key in the console keypad. The system will display:

DEN LAMP LAST COMMANDED OFF  $\downarrow$ 

You may enter a unit number to start displaying the status of that unit, or simply press the down arrow key to scroll through the list of units. The status display is as shown under Control, except that now the arrow keys may be used to continue scrolling between units.

Porch Light 00:24:19 LAST COMMANDED ON ↓

You can also check the last commanded state and (if any) the remaining time duration of any Unit.

At this point, you may press the '#' key to control the unit as specified under Controlling Units.

#### 2 = ZONE

The Zone Status menu allows you to view and scroll through the status of each zone input. To enter the Zone menu, from the Status menu, press the 2 (ZONE) key on the console keypad. The system will display:

Front Door SECURE ZONE 1  $\downarrow$ 

You may enter a zone number to start displaying the status with zone, or simply press the down arrow key to start with the first zone. The arrow keys may be used to continue scrolling between zones. For each zone, the display will show the zone name, the zone number, and the current status of the zone:

#### 3 = SUN (SUNRISE / SUNSET AUTOMATIC CALCULATION)

The system automatically calculates the time of sunrise and sunset each day. From the status menu, press the 3 (SUN) key on the console keypad to display the calculated time of sunrise, sunset, and the outdoor temperature (if outdoor temp sensor installed):

Sunrise: 6:00 AM Temp Sunset: 5:58 PM 85

#### 4 = TEST (SYSTEM DIAGNOSTIC TEST)

The diagnostic test performed by the HMS 800 allows you to check the status of the battery, telephone, bell circuit, auxiliary fuse, and security zone loop readings. The display is updated 3 times per second, although the actual readings are taken 10 times per second. To enter the Test menu, from the Status menu, press the 4 (TEST) key on the console keypad.

The first display shows the current battery reading and the phone line status. A battery test is initiated when the status mode is first entered. The new battery reading is updated ten seconds later. The low battery limit is also displayed.

The phone status consists of two parts, separated by a "/". The first part shows the current phone line state:

ONHK - ON HOOK	OFFHK - OFF HOOK
RING - RINGING	<b>DEAD</b> - DEAD PHONE LINE

The second part shows how the HMS 800 is currently using the phone line:

IDLE	-	NOT USING THE PHONE LINE
LOCAL	-	LOCAL ACCESS
REMOTE	-	REMOTE ACCESS
VOICE	-	IN VOICE DIAL OUT MODE
EMGACC	-	ACCESS AFTER VOICE DIAL OUT
DCM	-	IN DIGITAL COMMUNICATOR MODE

BATTERY: 230 (LIMIT 200) PHONE: ONHK/IDLE  $\downarrow$ 

Next, the display shows the A/D reading for the battery voltage, phone line voltage, AC power on, bell, and fuse:

		PHONE: BELL:	 €
FUSE:	222		€

The next series of displays shows the current analog reading for each security zone input. The displays show the readings for zones 1-32.

#### THROUGH

19= 47 20= 48 21= 47 22= 46 23= 46 24= 47 ↑

The normal loop reading for a zone is between 36 - 59 when the zone is secure. Each reading should be changing only by two or three counts from its average steady reading. When a door or window is opened, the reading will go to a value that represents that zone being open. If Zone 8 is a Supervised Fire Zone, the normal reading is between 26 - 43 when the zone is secure.

This feature can be used to monitor the quality of the zone wiring and contacts. If the numbers begin to deviate from their original values when the system was new, wiring problems that will eventually lead to trouble or false alarms may be developing. You may wish to record the Status | Test values for future reference.

#### **5 = TEMP (TEMPERATURE)**

The Temperature Status menu allows you to view and scroll through the status of each Thermostat and Temperature Sensor. To enter the Temperature menu, from the Status menu, press the 5 key on the console keypad. The system will display:

TSTAT 1	TEMP:80	$\downarrow$
HEAT:60	COOL:82	

You may enter a unit number to start displaying the status with that unit, or simply press the down arrow key to scroll through the list of temperature zones. The status display is as shown under Temperature Control, except that now the arrow keys may be used to continue scrolling.

TSTAT 1 MODE: AUTO FAN: AUTO ↓

At this point, you may press the ' # ' key to control the temperature zone as specified under Temperature Control.

#### **Event Log**

The Event Log records the 50 most recent significant security system Events (happenings) and trouble conditions in the system. When a new event occurs, the oldest one is lost.

The following Events, along with the time and date of their occurrence are recorded in the Event Log when they occur:

- All Security system Armings and disarmings (Off, Day, Night, Away, and Vacation), and user name.
- All zones bypassed or restored by the user, and user name.
- Any zone automatically bypassed by the system.
- Any zone tripped while the security system is armed.
- Any trouble condition (zone, battery, fuse, AC power, or phone).
- The restoration of any trouble condition (the trouble condition ceased to occur).
- Any Remote Telephone Access, Remote Access Denied, or Remote PC Access.

#### Show Events

To view your event log, from the top-level display or from the main menu, press the 7 key, then enter your code. The arrow keys may be used to scroll through the event log, starting with the most recent event.

Each event log entry displays the time and date on the top line and a description of the event on the bottom line:

7:15 PM 5/8 USER NAME AWAY

For trouble conditions, the event log will show the zone name or specific trouble condition and "TROUBLE":

10:59 AM 5/8 BATTERY TROUBLE

For trouble restorations, the event log will show the zone name or specific trouble condition and "TRBL RST":

11:57 AM 5/8 BATTERY TRBL RST

The system records each remote access. A remote phone access is when someone calls into the system from an outside phone line. Remote phone access is also recorded if the system phones out in response to an alarm and the called party enters a code. The event log displays the code used to access the system and "REM ACCESS":

12:05 PM 5/8 USER NAME REM ACCESS

An event is logged after three unsuccessful attempts are made to log into the system from a remote phone, the HMS 800 will lock out remote telephone access for 1 hour to discourage any further attempts to access the system - See *Telephone Control*.

Local access of the system using an in-house telephone is not recorded.

The event log will also record each time the PC Access software is used to access the system. The event log displays the code used to access the system and "PC ACCESS".

# **TELEPHONE CONTROL**

#### **Telephone Interface**

Your HMS 800 is equipped with a built-in telephone response feature that allows you to control and access the status of your system from any Touch-Tone phone.

The HMS 800 actually talks to you using a digital recording of an actual human voice, so the sound is incredibly life like. You send commands to the HMS 800 using the keys of your Touch-Tone telephone. There are no tapes, discs, or other moving parts associated with the speech and control features, so there is no maintenance or parts to wear out.

Only Touch-Tone phones will work with the HMS 800. Some phones have switches that allow you to select Pulse or Tone. Set them to Tone to work with the HMS 800.

**NOTE:** There are two keys on your Touch-Tone telephone that are special. The '#' key (pound key, to the right of the zero), and the '\*' key (star key, to the left of the zero). You will be using these keys.

#### **In-House Phones**

Each time you pick up your telephone at home, the HMS 800 will also pick up the line and listen for a # (pound) key. If HMS 800 does not hear the # key within 3 seconds, it hangs up and does not listen in again until the next time you pick up your phone. If the HMS 800 hears any key other than the # key while it is listening in, it disconnects itself immediately.

If the HMS 800 does hear the # key within 3 seconds of your picking up the receiver, it disconnects your phones from the phone company lines and connects your phones to itself, and begins talking to you. When you hang up, your phones are immediately reconnected to the phone company.

You will hear a slight click on your phone when the HMS 800 picks up or hangs up. This is normal. To access your HMS 800 from an in-house phone: Pick up the receiver of any Touch-Tone phone in your house. Pause for just a moment (about a second), then press the # key on the phone.

You will hear the voice read the menu, which tells you what commands are available over the telephone.

**NOTE:** If your system is in High Security Mode, you must also enter your code following the # key - **See** *High Security Mode*. In UL Listed Installations, High Security Mode is enabled.

If the alarm system is tripped, the in-house phones will be disconnected when the HMS 800 begins to dial out, to preclude a burglar from jamming the line by shorting out an in-house phone. In this case, you will have to turn the system off at the console.

#### **Remote Phones**

You may call your system from any Touch Tone phone and "talk" to your HMS 800, exactly as if you were at home, except that you must enter your code (Master or Manager) to gain access to the HMS 800.

To call your system from any touch tone phone, call your number. After 8 rings (or whatever you have Rings Before Answer set to) your HMS 800 will answer and "beep" - See *Set Up Dial*. Press the digits of your code on the phone. The first digit must be pressed within 3 seconds of the beep. You will hear the menu.

If you hear three beeps after entering the code, you have entered the wrong code. Try again. If you make a mistake while entering the code, press the # key and then enter the code again. You only have three tries to enter a valid code.

A successful remote access is logged in the event log as a Remote Phone Access, along with the time, date of its occurrence, and the code number used.

There are a number of setup items that control what you can do from a remote phone when you or anyone else calls into your home - See Set Up, Dial.

## **Phone Access Denied - Remote Lockout**

The HMS 800 has a remote lockout feature to discourage youngsters (and adults who act that way) from trying to access your system. If four invalid codes are entered, the system will hang up and a one-hour lockout period will begin. During the lockout period, the HMS 800 will not answer a call after any number of rings, which should discourage the caller.

If a lockout occurs, the event Phone Access Denied is entered into the event log, along with the time and date of its occurrence.

The one-hour lockout does not apply to in-house phones. The lockout is cleared immediately if the HMS 800 is accessed using an in-house phone.

#### **Alternate Method**

The HMS 800 has an alternate access method that may be more effective, especially when calling long distance.

- 1. Call the system and allow the phone to ring once or twice.
- 2. Hang up.
- 3. Wait about 10 seconds, but within 60 seconds, call the system again. It will answer on the first ring and beep.
- 4. Enter your code.

#### Main Menu

Once you have successfully logged into your HMS 800, it will read you a menu of commands, as follows:

WELCOME TO ON Q, PLEASE CHOOSE:

- CONTROL 1: 2: SECURITY 3: BUTTON 4: ALL 5: **TEMPERATURE** 6: **STATUS** 7: **EVENT** 8: PHONE 9: GOOD-BYE \*: CANCEL
- 0: REPEAT

This means that you press '1' for Control functions, '2' for Security, '3' for Button, etc. Pressing one of the keys on the phone will move you to another menu. These menus are the same as the menus on the console. Words in brackets [] are only spoken if that feature is in use.

You do not have to wait for the HMS 800 to finish talking. Once you are familiar with the menus, you can simply punch the numbers on the phone without waiting. Whenever you press a number, the HMS 800 stops talking and goes on to the function that you have selected.

If you press a key that is not on the current menu, you will hear 3 beeps and the menu will be repeated.

So that the HMS 800 does not tie up your phone, there is a 10 to 15 second time-out that starts after the HMS 800 stops talking. If it does not hear any numbers from your phone in 10 to 15 seconds after it stops talking, the HMS 800 will hang up. If you are on a remote phone and the HMS 800 hangs up, you must call the HMS 800 again. If you are on an in-house phone, hang up, wait a few seconds, then pick up and press the # key.

To hear the main menu again, press 0 on your phone. To cancel an operation, press '\*' for Cancel. You will hear "CANCEL" and one beep for a cancel operation. If you make a mistake, you will hear 3 beeps, then the HMS 800 will re-read whichever menu you are in.

When you are finished with the voice menu, press the 9 (Good-Bye) key. The HMS 800 will say, "GOOD-BYE" and hang up. From an in-house phone, the dial tone will return. From a remote phone, you will hear a click as the HMS 800 hangs up. It is recommended that you press 9 to terminate a remote call. If you don't, the HMS 800 will hang up anyway after about 15 seconds.

#### **Recording Your Address**

The "Phone" menu allows you to record and verify your address. The address is used only for the VOICE dial out feature. *Press 8 from the MAIN MENU to get to the PHONE menu.* 

"PHONE - PLEASE CHOOSE: [3 INTERIOR] 8 PLAY ADDRESS, 9 RECORD ADDRESS \*: CANCEL."

To play the current address, press the 8 key.

To record the address, press the 9 key and enter the Master code.

"RECORD ADDRESS - [BEEP]

At the [BEEP], record your name and address.

"ADDRESS IS: (ADDRESS IS PLAYED)."

#### When a Two-Way Audio Module is being used:

If an optional Two-Way Audio Module is being used, this command also allows paging and listening to premises.

To talk or listen to the premises, press the 3 key.

"PLEASE CHOOSE: 2 TALK, 8 LISTEN, \*: CANCEL."

- If no key is pressed, HMS 800 will automatically switch to listen mode.

To talk to someone at the premises, press the 2 key.

To listen to the premises, press the 8 key.

- You cannot talk to anyone on premises in listen mode and you cannot listen to the premises while in the talk mode.

#### Panic Button over the Phone (# # # # # #)

On an in-house phone only, you can activate the Police Emergency keys by picking up the phone and pressing the # key 6 times. This activates the sounder immediately.

The first # that you press logs you in, as usual, then the next 5 presses of the # key activate the alarm. If you are already logged into your system, then it takes only 5 presses of the # key to activate the emergency alarm. To prevent accidental activation of the panic feature over the phone, you must press the # key 5 times, all at once. If you pause for more than 2 seconds, or press any other key, the panic activation is canceled. The HMS 800 will say "CANCEL".

Note that the Panic Button Over the Phone feature only works if you are logged into the system. In an emergency, if you wish to set off the alarm, simply pick up the phone and repeatedly press the # key until the alarm sounds. Be aware that, under some circumstances, it may be smarter to dial 911 or your police department directly. Also be aware that your telephone will be unusable while the HMS 800 dials out.

#### PC Access

HMS 800 is capable of communicating with an IBM compatible personal computer (PC). The PC can be local (in-house) or remote. The PC must be equipped with a modem or serial port and running PC Access software. The HMS 800 has a built-in modem and can be accessed over the telephone or over a direct serial connection (RS-232/RS-485 through an optional serial interface module). If you wish to use your PC to configure, program, and check the status of your HMS 800, contact your dealer for the appropriate software for your PC.

# **Emergency Dial-Out**

Emergency dial out consists of two distinct parts: the "digital dialer" and the "voice dialer."

## **Digital Dialer**

The digital dialer (also called a "digital communicator") reports alarm events to a central station monitoring center. The digital dialer sends a digitally coded message to the central station's receiver and computer. The computer in the central station presents your name, address, and other information to a human operator who notifies the appropriate authorities.

Digital communications to a central station are generally superior to voice communications for three reasons:

- there is always someone manning the central station
- there is virtually no chance for misinterpretation
- personnel at the central station are trained to respond.

The digital communicator will not dial out until the Dial Out Delay has expired. If the alarm is canceled prior to the expiration of the Dial Out Delay, no transmission will take place. If the alarm is canceled after the Dial Out Delay has expired, all alarm trips will be transmitted followed by a Cancel code.

The communicator may be set up to automatically send a test code to the central station on a daily or weekly basis. This verifies proper operation of the entire monitoring system on a periodic basis.

When the digital communicator is used, all voice dial outs will be delayed for five minutes after the expiration of the dial out delay to allow time for the central station to call the premises.

If a Two-Way Audio Module is being used, after the transmission of the alarm to the central station, the operator can talk and listen to people and sounds at the premises.

If the digital communicator is unable to successfully communicate with the central station, the console will display a Communicator trouble condition.

#### **Voice Dialer**

In UL Listed Installations, the Voice Dialer is supplementary to the Digital Dialer described above.

The voice dial-out feature of the HMS 800 is a sophisticated system that can notify you at the office, on vacation, on a pocket pager, or notify your neighbor, a relative, and in some cases, local authorities.

See What Happens When the Alarm is Activated, also Set Up Dial.

#### How the HMS 800 Voice Dialer Works

When a Burglar Alarm, fire alarm, police emergency keys, fire emergency keys, auxiliary emergency keys, gas alarm, water alarm, Temperature alarm, or duress alarm is activated, the voice dialer looks at the Dial Order to determine which numbers to dial and in what order. A Dial Order can have up to 8 entries, allowing the dialer to make up to 8 calls. If you want it to try a number twice, it can be entered twice in the dial order.

The dial order numbers can be chosen from Dial Out Numbers 1 - 8.

#### What the HMS 800 Voice Dialer Does

When an alarm is activated, the HMS 800 will wait the Dial Out Delay. If your system is monitored by a central station, it will be notified first. Then the voice dialer will dial out to the numbers as described above.

If the alarm is turned off at the console while a voice dial-out is in progress, the dial-out will be canceled immediately and the voice dialer will hang up.

If the number dialed is busy, or if all lines are busy, the dialer will immediately hang up and go to the next number in the Dial Order. The dialer will wait up to 45 seconds after it finishes dialing a complete phone number for a voice to answer. If it doesn't hear a voice in that time, it goes on to the next number. The voice dialer will respond to answering machines.

After it has dialed the last number in the dial order, the HMS 800 stops dialing and reconnects the in-house phones.

#### What You Hear - If Your HMS 800 Calls You

When you pick up the phone and say something, the HMS 800 will say: (One of the following, depending on type of alarm)

- BURGLAR ALARM
- FIRE ALARM
- AUXILIARY ALARM
- TEMPERATURE ALARM
- WATER ALARM
- GAS ALARM
- SILENT ALARM

#### AND

- ADDRESS: (Your address here)
- PHONE NUMBER (your phone number here)

The HMS 800 will repeat this message twice.

#### **Entering the Code**

At any time during the message you can enter the Master or Manager code, simply by pressing the digits on the keypad of a Touch-Tone phone. The HMS 800 will stop talking when it hears *any digit* from a touch tone phone. (When it is saying the address, the HMS 800 completes the entire address before it stops talking.)

If you enter the correct Master or Manager code, you will then be logged in (a remote phone access is logged in the event log) and further dial outs are canceled.

You will hear the status of the system, which will describe the type of alarm and the zones tripped, for example:

BURGLAR ALARM ACTIVATED: ZONE 1 - ENTRY EXIT - TRIPPED; ZONE 3 - DAY INTERIOR - TRIPPED:

Then the HMS 800 will read the Main Menu as described in Telephone Control. You can press 0 to hear the menu. At this point, you are in control, just as if you had called your system.

A strategy to follow if you are called by your system is to check the Status (6 on the telephone) to see what mode the system is in, and which zones were tripped. Press \* to cancel out of the status mode. You may wish to check the Event Log (7) to see when each event happened. Then, press \* to exit the event log.

Now press 9 (good-bye) to make the HMS 800 hang up. Hang up your phone and call your premises to be sure that it wasn't someone who has forgotten their code. If not, call the police.

If someone properly disarms the system while the called party is logged in, then the status message will go back to "SECURITY MODE IS OFF - SYSTEM OK" as described in Telephone Control.

If a reportable event (an alarm, cancel, etc.) occurs while you are talking to your HMS 800, it will hang up on you to communicate the event to the central station.

# SETUP

The Setup menu is used to configure operating parameters, program your system to do its automated control and security functions, and give descriptions (names) for all of your zones, units, buttons, and codes. To enter the Setup menu, from the top-level display or from the main menu, press the 9 (SETUP) key on the console keypad.

Upon entry to the Setup mode, you will first be prompted to enter a security code:

SET UP ENTER CODE:

A Master or Installer Code is required to enter the Setup mode.

SET UP 1=CODES 2=TIME 3=PROG ↓ 4=DIAL 5=ARM 6=MISC 7=NAMES 8=VOICE ↑

#### Set Up Codes

There are 8 user codes that you may assign to users of the system. All HMS 800 security codes are 4 digits in length (0001 to 9999). Each user should be assigned a security code with an authority level, and times in which the code will be valid. To set up a code, from the Setup menu, press the 1 (CODES) key. Use the arrow keys to scroll through the codes.

User Code 1 is always set to a Master code. The existing code number is not shown on the display. To change the code, enter a four digit number, then press the '#' key. Enter 0000 to disable the code.

Remember the code number. It will not be redisplayed.

CODE X: 0000-9999 0000=DISABLE

Press the  $(\downarrow)$  key. You will then be prompted for an authority level for that code:

CODE X AUTHORITY: 3 1=MSTR 2=MGR 3=USER ↓

#### 1 = Master

Master codes have complete access to the entire system.

#### 2 = Manager

Manager codes can arm and disarm the security system during assigned times. Managers can access the Main Menu if the system is in High Security Mode, and have telephone access privilege.

#### 3 = User

User codes can only be used to arm and disarm the security system during assigned times. Telephone access is not a User privilege.

You can specify the access (on/off) times for the code, this is, the time periods during which the code is valid.

CODE X ON TIME: 8:00 AM MTWTF-- #=CHNG↓ CODE X OFF TIME 5:00 PM MTWTF-- #=CHNG↓ The times and days are changed by pressing the '#' KEY. Choose the 1 (TIME) key to change the On or Off times. You will be prompted to enter the new time. AM/PM must be specified for the time if the AM/PM format is being used, otherwise the entered time should be 13:00-23:59. Each item defaults to its current value. Press the up arrow key to select Sunrise and press the down arrow key to select Sunset.

```
CODE X(ON/OFF)TIME:
1=TIME 2=DAYS
TIME: 8:00 AM
HHMM ↑=RISE/AM ↓=SET/PM
```

To change days, press the '# 'key, then press the 2 (DAYS) key. You will be prompted to enter the day(s) that the code will be valid. Press 1-7 for Monday - Sunday, 0 for Never, 8 for Weekdays, and 9 for Weekends.

DAY(S): MTWTFSS 1-7=MON-SUN 0=NEVER

#### **Duress Code**

If you are forced to disarm the system against your will by an intruder, disarm it as you normally would, but use the Duress Code instead of your normal code. The system will disarm normally. No sirens will sound, no lights will flash, but the HMS 800 will perform a silent dial out and say that this is a silent alarm.

To stop a silent dial out, turn your security system off by pressing OFF, then your code.

DURESS CODE: 0000-9999 0000=DISABLE↑

# Set Up Time

To set up time and date, from the Setup menu, press the 2 (TIME) key. You will be prompted to enter the new time and date. AM/PM must be specified for the time if that format is being used, otherwise the entered time should be 13:00-23:59. Each item defaults to its current value.

TIME: HHMM ↑=AM ↓=PM DAYLIGHT SAVINGS TIME? (Are you currently observing DST) 0=NO 1=YES ENTER DATE: MMDDYY DAY OF WEEK: 1-7=MON-SUN

# Set Up Programs

Your HMS 800 can be programmed to do automated control and security functions on a time schedule or in response to an event occurring in the system.

The HMS 800 executes programs:

- Once at a certain time on a certain date (One-Time Program)
- On a certain date every year (Yearly Program)
- Repeatedly (Repeating Programs)
- In response to an event (Event Button Programs)

You can also conditionalize programs so that they only run under certain circumstances.

Each automation "program" is a single step in programming automation in an HMS 800 system. Each program must specify when that program should execute and an action to be taken. The program may also specify a condition that must be true for the program to execute.

Each program can be set up to execute at a certain time of day or on the occurrence of a particular event in the system. When this time or event occurs, the programmed action will be taken if, and only if, the specified condition is also true at that time.

The Program menu allows you to add, review, change, and delete automation programs. To enter the Program menu, from the Setup menu, press the 3 (PROG) key.

SET UP PROGRAMS 1=ADD 2=SHOW 3=DELETE

#### 1 = Add Programs

The 1 (ADD) key is used to add new automation programs to the system. When you press the 1 (ADD) key, the *Edit Program* menu is displayed which allows the various parts of a program to be specified - **See** *Edit Program*. You may edit each part of the program as specified under *Edit Program*. Press the ' # ' key at the *Edit Program* menu to show the newly entered program. Press the ' # ' key at the *Edit Program* menu to show the newly entered program. Press the ' # ' key to return to the *Edit Program* menu to cancel entry of the new program and return to the Set Up Programs menu.

Once the new program is entered, the display will return to the Set Up Programs menu.

#### 2 = Show Programs

The 2 (SHOW) key is used to review, edit, and delete existing programs. From the Set Up Program menu, press the 2 (SHOW) key. The display prompts you to specify which program to be reviewed.

1=CTRL 2=SEC 3=BTTN 4=ALL 5=TEMP #=EVERY

Menu 1 - Programs for a particular control unit number

Menu 2 - All Security related programs

Menu 3 - Programs for a particular macro or event button

Menu 4 - Programs for All On/Off functions

Menu 5 - Programs for a particular Temperature zone

Menu # - Displays every program

Selecting the 1 (CTRL) or 5 (TEMP) key will prompt you to specify the desired unit or temperature zone. These can be specified by entering the number, followed by the '#' key or by using the arrow keys to scroll through a list of items.

UNIT: ENTER UNIT ↓ TEMPERATURE ZONE ENTER TEMPERATURE ZONE ↓

Selecting the 3 (BTTN) key will prompt you to specify the desired button number. These can be specified by entering the number, followed by the '#' key or by using the arrow keys to scroll through a list of items.

BUTTON: ENTER BUTTON #=MENU ↓

Pressing the '# 'key first will bring up a menu of event button types to select from:

BUTTON TYPE 1=CTRL 2=SEC 3=ZONE ↓ 4=ALL 5=ALARM 6=X-10 7=MISC ↑ If there are no programs for the specified item, the console will beep three times and will display:

\*\*\* NO PROGRAMS \*\*\*

Otherwise, a help screen is displayed:

Press # to delete or edit displayed program.↓

The first program is displayed once the down arrow is pressed. The top line displays the time or button/event that activates the program and any condition that must be true for the program to activate. The bottom line shows the command to execute when the program is activated.

10:00 PM MTWTFSS &AWAY Living Rm Lt ON 6:00 AM 10/10 &NIGHT PROGRAM DAY WHEN AWAY: ALL OFF

The arrow keys are used to scroll through the programs. Pressing the '#' key while a particular program is displayed will allow that program to be edited or deleted. The display shows:

SHOW PROGRAM 1=EDIT 2=DELETE

- Press the 1 (EDIT) key to edit the selected program. The *Edit Program* menu is displayed which allows the various parts of the program to be changed See *Edit Program*. Edit each part of the program as specified under *Edit Program*. Press the '# ' key at the *Edit Program* menu to show the newly edited program. Press the '# ' key again to save the program, or press the ' \* ' key to cancel edit of this program and return to reviewing the programs.
- > Press the 2 (DELETE) key to delete the selected program.

#### **3** = Delete All Programs

To delete All automation programs, from the Set Up Program menu, press the 3 (DELETE) key. The display will prompt you to confirm the deletion.

DELETE ALL PROGRAMS? 0=NO 1=YES

Select 1 (YES) to delete all automation control programs in the system. Select 0 (NO) or press the '\*' key to return to the Set Up Program menu.

**NOTE:** IF YOU CHOOSE THIS OPTION, ALL OF YOUR PROGRAMS WILL BE LOST PERMANENTLY.

## **Edit Programs**

The Edit Program menu is used to create an automation program.

EDIT PROGRAM 1=WHEN 2=CMD 3=&COND

- Selecting 1 (WHEN) is used to specify the time that the program is activated or the macro button (event) that activates the program.
- Selecting 2 (CMD) allows you to specify the action to be taken when the program is executed.
- Selecting **3** (**&**COND) allows a condition to be specified that must be true for the program to be executed at the specified time.

Each of these items defaults to its current setting for an existing program that is being edited, or to a default value for a new program.

For each program, it is only necessary to specify the time or event and the action to be taken. It is not necessary to specify a condition on the program if the action should be taken whenever the specified time or event occurs.

# **Edit Programs When**

Selecting the 1 (WHEN) key, from the *Edit Program* menu, allows the time or button/event that activates the program to be changed. The display shows:

EDIT WHEN 1=TIMED 2=BUTTON

#### **Times Programs**

Selecting 1 (TIMED) sets the program to be activated at a specific time of day. You are prompted to enter the time and date or days of week. The current default value is shown for each item. Press ' # ' to accept the default.

12:00 AM 5/17 1=TIME 2=DATE/DAY

Select 1 (TIME) to enter the new time. If the desired time is the time in which sunrise or sunset will occur, press the up arrow key for sunrise, or the down arrow key for sunset before entering a time.

TIME: 12:00 AM HHMM ↑=RISE/AM ↓=SET/PM

You may also choose to have the program execute up to 120 minutes before or after the time of sunrise or sunset.

SUNSET 1=BEFORE 2=AFTER #=AT

If the 1(BEFORE) or 2(AFTER) key is selected, you will be prompted to select the amount of minutes:

ENTER OFFSET: 0-120 MINUTES

When entering a time of day, AM/PM must be specified for the time if the AM/PM format is being used. Otherwise the entered time should be 13:00-23:59.

TIME: 8:00 AM HHMM ↑=RISE/AM ↓=SET/PM

Select 2 (DATE/DAY) to enter a new date or days of week.

DATE: 10/15 MMDD ↓=DAY Next, specify if the program will run once (on the specified date and then be deleted) or if the program will run every year on the specified date (yearly).

RUN PROGRAM 1=ONCE 2=YEARLY

To change days, press the down arrow (DAY) key. You will be prompted to enter the day(s) that the program will be activated. Press 1-7 for Monday - Sunday, 0 for Once, 8 for Weekdays, and 9 for Weekends, then '#'.

DAY(S): M-W-F--1-7=MON-SUN 0=ONCE

Press the '#' key and the display will then return to the *Edit Program* menu:

EDIT PROGRAM 1=WHEN 2=CMD 3=&COND

#### **Button Programs**

Selecting 2 (BUTTON) from the Edit When menu sets up a program to be activated when a particular button is run or a particular event occurs. The user is prompted to specify the button/event that activates the program:

BUTTON: ENTER BUTTON #=MENU↓

A specific macro button may be activated by entering the button number followed by the '#' key, or by using the arrow keys to scroll through a list of buttons.

Pressing the '#' key first will bring up a menu of event button types:

BUTTON TYPE 1=CTRL 2=SEC 3=ZONE↓ 4=ALL 5=ALARM 6=X-10 7=MISC ↑

After the event button is specified, the display returns to the Edit Program menu.

#### **Control Unit Event Buttons**

Pressing the 1 (CTRL) key allows you to select the event button for a control unit activated event. You are first prompted to enter the desired unit number:

UNIT: ENTER UNIT  $\downarrow$ 

The unit may be entered by entering the unit number followed by the '#'key or by using the arrow keys to scroll through a list of units.

Next, the desired unit is displayed and you are prompted to specify the state that activates the button:

WHEN Porch Light: 0=OFF 1=ON

#### **ALC Switch Module Activated Events**

When an ALC Switch Module is turned on or off, if programmed, the "When Unit" program is activated.

Pressing the 1 (CTRL) key allows you to select the "When Command" for an ALC Switch Module activated event. You are first prompted to enter the desired unit number:

UNIT: ENTER UNIT

The unit may be entered by entering the unit number followed by the '#' key or by using the arrow keys to scroll through a list of unit names. Next, the desired unit is displayed and you are prompted to specify the state that activates the program:

 $\downarrow$ 

WHEN FOYER LIGHT: 0=OFF 1=ON

#### **Security Mode Event Buttons**

Pressing the 2 (SEC) key allows you to select the event button that will be activated when a security mode changes:

0=OFF 1=DAY 2=NIGHT 3=AWAY 4=VACATION ↓

After the security mode is selected, an additional menu appears which allows you to further specify the button. For example, you would like to activate a button when you arm the system into the 3 (AWAY) mode:

WHEN AWAY: 1=DELAY 2=CODE

Any of these may be selected alone or in combination. As each item is specified, the menu is redisplayed with the updated event button description. Press the '# 'key when done.

- Selecting 1 (DLY) allows the user to specify whether the event button is activated at the start or end of the exit delay:

WHEN ACTIVATED? 1=START EXIT 2=END EXIT

When you specify that the event button is activated at the start of the delay by pressing the 1 (START EXIT) key, the mode is prefixed by "A-" for "arming into".

WHEN AWAY: (END OF DELAY) WHEN A-AWY: (START OF DELAY)

When the system is armed in the Day (instant) or Night (delay) mode, buttons for the Day and Night modes are executed, respectively.

- Selecting 2 (CODE) allows you to specify that the event button is activated only when a particular code is used. You will be prompted to enter the code:

ENTER USER CODE: 1-16 0=ALL↓

You should enter the user code by entering the code number followed by the '#' key or by using the arrow keys to scroll through a list of code names.

WHEN C1 AWAY: 1=DELAY 2=CODE WHEN C1 A1 AWAY: 1=START EXIT 2=END EXIT

#### **Zone Event Buttons**

Pressing the 3 (ZONE) key allows you to select the event button for a zone activation event. You are first prompted to enter the desired zone number:

ZONE: ENTER ZONE  $\downarrow$ 

The zone number should be entered followed by the '#' key, or the arrow keys may be used to scroll through a list of zones. The desired zone is then displayed and you are prompted to specify the state that activates the event button:

WHEN Front Door: 0=SECURE 1=NOT RDY

#### All On/Off Event Buttons

Pressing the 4 (ALL) key allows you to specify a event button activated by issuing an All On or an All Off command. You are first prompted to specify whether the event button is for All Lights On or for All Off:

ALL 0=ALL OFF 1=LIGHTS ON

### **Alarm Event Buttons**

Pressing the 5 (ALARM) key allows you to specify a event button activated upon the occurrence of an alarm. You are first prompted to select the type of alarm:

SELECT ALARM TYPE  $\downarrow$  ANY TYPE  $\downarrow$ 

The arrow keys are used to select from a list of alarm types:

- ANY ALARM
- BURGLARY ALARM
- FIRE ALARM
- GAS ALARM
- AUXILIARY ALARM
- FREEZE ALARM
- WATER ALARM
- DURESS ALARM
- TEMPERATURE ALARM

Press the '#' key when the desired alarm type is shown.

# **X-10 Event Buttons**

Pressing the 6 (X-10) key allows you to specify a event button activation upon receipt of an X-10 command from a source external to HMS 800. You are first prompted to enter the X-10 house code:

You are then prompted to enter the X-10 unit code:

X-10 UNIT CODE: 1-16 0=ALL

Finally, you are prompted to specify the command that activates the event button:

OR

WHEN X-10 A1:

#### **Miscellaneous Event Buttons**

Pressing the 7 (MISC) key allows you to select a event button from a list of other event buttons. You are first prompted to select the event button:

SELECT BUTTON: WHEN PHONE DEAD  $\downarrow$ 

The arrow keys are used to select from a list of event buttons:

- WHEN PHONE DEAD
- WHEN PHONE RING
- WHEN PHONE OFFHK
- WHEN PHONE ONHOOK
- WHEN AC PWR OFF
- WHEN AC PWR ON
- WHEN BATTERY LOW
- WHEN BATTERY OK
- WHEN DCM FAIL
- WHEN DCM OK

# **Edit Program Command**

Selecting 2 (CMD), from the *Edit Program* menu, allows the commanded action for the program to be specified. The following menu is displayed:

1=CONTROL 2=SECURITY 3=BUTTON 4=ALL ↓ 5=TEMP

After the command is specified, the display returns to the *Edit Program* menu:

# **Program Control Commands**

Press the 1 (CONTROL) key to command lights and appliances. Specify the desired command - See Control.

#### **Program Security Commands**

Press the 2 (SECURITY) key to arm and disarm the security system, or to bypass and restore an individual zone. The following menu is displayed:

0=OFF 1=DAY 2=NIGHT 3=AWAY 4=VACATION ↓ 5=DAY INST 6=NIGHT DLY 8=BYPASS 9=RESTORE ↑

Select (0-6) to arm the system into the desired mode or select the 8 key to Bypass and the 9 key to Restore a security zone.

#### **Program Button Commands**

Select the 3 (BUTTON) key to program a button to automatically execute. Specify the button to be executed - See *Button Programs*.

#### Program All On / All Off Commands

Select the 4 (ALL) key to program an All On and All Off commands:

ALL: 0=ALL OFF 1=LIGHTS ON

#### **Program Temperature Commands**

Select the 5 (TEMP) key to command thermostats and temperature sensors. Specify the desired command - See Temperature.

# **Edit Program Condition**

Selecting the 3 (&COND) key, from the *Edit Program* menu, allows the condition for the program to be specified. This condition must be true when the program time or event occurs for the program to be executed.

The following menu is displayed:

SELECT CONDITION 1=CTRL 2=SEC 3=ZONE ↓ 9=TIME #=MISC ↑

After the condition is specified, the display returns to the *Edit Program* menu.

#### **Program Control Conditions**

Press the 1 (CTRL) key to specify that the program should only execute if a specified control unit is either On or Off.

The display prompts for the unit number:

UNIT: ENTER UNIT  $\downarrow$ 

Enter the unit number followed by the ' # ' key, or use the arrow keys to select the unit.

The unit is displayed and the display prompts for the state of the unit:

IF Porch Light: 0=OFF 1=ON

#### **Program Security Mode Conditions**

Press the 2 (SEC) key to specify that the program should only execute if the security system is armed in a particular mode. Select the security mode from the following menu:

0=OFF 1=DAY 2=NIT 3=AWY 4=VAC 5=DYI 6=NTD

Next, select whether the system is considered in the specified mode during the exit delay:

INCLUDE EXIT DELAY? 0=NO 1=YES

#### **Program Zone Conditions**

Select the 3 (ZONE) key to specify that the program should only execute if a specified security zone is either **Secure** or **Not Ready**. The display prompts you for the zone number:

ZONE: ENTER ZONE ↓

Enter the zone number followed by the '# 'key, or use the arrow keys to select the zone.

The zone will be displayed and you will be prompted for the state of the zone:

IF Front Door: 0=SECURE 1=NOT RDY

#### **Program Time Clock Conditions**

Select the 9 (TIME) key to specify that the program should only execute if a specified Time Clock is either On or Off. The display prompts you for the Time Clock number:

 $\downarrow$ 

ENTER TIME CLOCK: 1-3

Enter the Time Clock number followed by the '#' key.

Next, specify the state of the time clock:

IF TIME CLOCK 1: 0=OFF 1=ON

#### **Program Other Conditions**

Select the # (OTHER) key to select a condition from a list of other conditions.

SELECT CONDITION: NONE

Choose "NONE" when editing a program and choose not to conditionalize the program.

SELECT CONDITION: NEVER ↓

Choose "NEVER" if you wish to temporarily deactivate a program without deleting it.

Other conditions include:

- IF LIGHT
- IF DARK
- IF PHONE DEAD
- IF PHONE RING
- IF PHONE OFFHK
- IF PHONE ONHOOK
- IF AC PWR OFF
- IF AC PWR ON
- IF BATTERY LOW
- IF BATTERY OK

# Set Up Dial

The Set Up Dial menu is used to configure all of the telephone related items for the HMS 800. To enter the Set Up Dial menu, from the Setup menu, press the 4 (DIAL) key. Use the arrows to scroll through the items. For each item, the top line displays a description of the item and its current setting. The bottom line shows the available ranges for your selections.

Phone numbers can be up to 24 characters long. The number is shown on the bottom line of the display. Press the OFF key to enter a ' - ' into the number. Press the DAY key to specify a pause of 2 seconds (shown as a "T" on the display). Press the NIGHT key to enter a ' # ' into the number. Enter a single ' - ' for no number.

# **Telephone Access**

The Telephone Access item allows you to turn the local (in-house) and remote telephone control feature on and off.

If set to On, the HMS 800 will allow local and remote telephone access as described in Telephone Control. If set to Off, the HMS 800 will not answer incoming calls ever, and will not work on the in house phones. Dial outs will still occur, and the system will operate normally when the HMS 800 dials out.

If you do not have your HMS 800 connected to a phone line, set Telephone Access to Off to keep the system from displaying "PHONE LINE DEAD". The default setting for Telephone Access is On.

# Answer Outside Call

If you do not want your system to answer outside calls, set this item to No. The local (in-house) telephone control features will still work, but the system will never answer an incoming call.

The default setting for Answer Outside Call is Yes.

#### **Remote Commands**

The Remote Commands Ok item allows you to prevent any commands from being issued from a remote telephone.

If Remote Commands Ok is set to Yes, the HMS 800 will allow all commands to be executed when called from a remote telephone. If Remote Commands Ok is set to No, then lights, appliances, and the security system cannot be controlled from a remote telephone that dials into your home.

You can issue commands from a local (in-house) phone with Remote Commands Ok set to Yes or No. The default for Remote Commands Ok is Yes.

#### **Rings Before Answer**

Your phone must ring this number of times before the HMS 800 will answer an incoming call to your phone.

To change Rings Before Answer, enter the new number from 1 to 15, then press the '# 'key.

The factory default for Rings Before Answer is 8.

#### **Dial Type**

The Dial Type specifies the type of dialing used when the HMS 800 dials out. If you do not have Touch-Tone service, then Dial Type must be set to Pulse.

The default dial type is Tone.

#### **My Phone Number**

My Phone Number is the phone number that will be announced when the HMS 800 dials out in the event of an alarm. It should be set to the phone number of the premises where your system is installed.

To enter phone numbers, press the keypad keys 0 - 9. You can put in a dash (-) for legibility by pressing the Off key. Press the '# 'key after you have pressed all of the digits in the phone number.

For example, to enter the number 555-1234, press 555 'OFF' 1234 #.

### **Dial Out Number 1**

Dial Out Number 1 is one of the 8 numbers that are stored in the system. In the event of an alarm, these numbers are dialed in the order that is set up in the Dial Out Order for the particular type of alarm.

Dial out numbers 1 - 8 have On and Off times and days, so that no time is wasted calling you at the office at night or on a Sunday if the alarm is activated.

For dial out number 1, you should enter your office number where you can be reached during working hours.

Enter the phone number the same way as described for My Phone Number.

You can cause the system to pause for two seconds between digits of the number by pressing the DAY key, which puts a T in the number. Multiple Ts for longer pauses are allowed. You can also press the NIGHT key (\*) and the AWAY key (#) for symbols to get through some types of telephone or pocket beeper/pager systems.

If you wish to remove a phone number for a particular dial out number, press OFF then '#' (with the display showing a Dial Out Number) to enter a single dash (-).

Phone numbers can be up to 24 digits.

DIAL OUT 1 ON DIAL OUT 1 OFF

Dial out number 1 has two times associated with it, an On and Off time. The HMS 800 will only call this number if the time and days are between the Dial Out 1 On and Dial Out 1 Off times and dates.

Press # to change the On and Off times - See Set Up Codes.

DIAL OUT 1 ON: 12:00 AM MTWTFSS #=CHNG DIAL OUT 1 OFF: NEVER #=CHNG

For example, if your normal work hours are 8 to 5 Monday through Friday, then set Dial Out 1 On to 8:00 AM MTWTF and Dial Out 1 OFF to 5:00 PM MTWTF. With these settings, the system will call Dial Out Number 1 only if the alarm is activated on weekdays between the hours of 8:00 AM to 5:00 PM.

The default for Dial Out 1 On is 12:00 AM MTWTFSS, and the default for Dial Out 1 Off is Never, so that Dial Out Number 1 is always active.

The Time that was entered before setting an On or Off time to Never is saved, and will be redisplayed when a day is set in place of Never. Setting both the Dial Out 1 On and the Dial Out 1 OFF times to Never will make Dial Out Number 1 never active.

#### **Dial Out Numbers 2-8**

The default Dial Out On and Off times are the same as Dial Out Number 1.

#### **Dial Order**

The dial order is the order in which call all will be placed if an Alarm is activated.

You can have the system make up to 8 calls in the event of an alarm. You may chose from Dial Out Numbers 1 - 8. You can have the system dial a number twice (or more) which is suggested if you don't have a direct dial number at work, so that your company operator can find you, if you aren't at your desk, and have you alerted for the next call.

Up to eight numbers may be entered. Enter the Dial Out Order by pressing the keypad digits 1, 2, 3, 4, 5, 6, 7, or 8 for Dial Out Numbers 1, 2, 3, 4, 5, 6, 7, or 8, respectively. When you have entered the dial order of your choice, press '#'. Enter a single '0' if no dial out is desired. The default Dial Order is 1 2 3 4 5 6 7 8.

# Set Up Arming

To configure different arming and disarming options, from the Setup menu, press the 5 (ARM) key.

# **Entry Delay**

The Entry Delay is the time, in seconds, that you have to turn off the alarm after entering your home. The entry delay **only** applies to the entry/exit zone (i.e. your doors). If you (or someone else) come in through a window, there will be no entry delay and the alarm will sound immediately.

When you come in through a door on an entry/exit zone, the other zones are delayed too. This allows you to get to your phone or console to turn off the security system, even if you have to go through a room protected by a motion detector.

Some doors (a back door or garage door) may be configured as a double or quadruple entry delay. If so, that door has two times or four times the entry delay shown on the display.

The default entry delay is 15 seconds. If you wish to allow yourself more time to get in and turn off the security system, you may set the entry delay between 15 and 45 seconds.

ENTRY DELAY: 15 15-45 SECONDS  $\downarrow$ 

The console will beep and the new entry delay will be displayed.

#### **Exit Delay**

The Exit Delay is the time, in seconds, that you have to leave your house when you turn on the system. When arming the system in Day, Night, or Away modes, the system will wait this amount of time before arming.

The default exit delay is 15 seconds. You may change it from 15 to 180 seconds.

EXIT D	ELAY:	15
15-180	SECONDS	$\uparrow$

#### **Audible Exit Delay**

The Audible Exit Delay is an audible indication from the console beeper while the exit delay is in effect. During the last 10 seconds of the exit delay, the audible indication will beep twice as fast to let you know that you must leave at once.

The default setting for Audible Exit Delay is Yes.

#### **Entry/Exit Chime**

When Entry/Exit Chime is set to Yes, the console(s) will beep once when a door on an entry/exit zone is opened, even if the alarm system is off. This lets you know when someone enters and leaves.

The default setting for Entry/Exit Chime is Yes.

### **Perimeter Chime**

When Perimeter Chime is set to Yes, the console(s) will beep once when a window or any other perimeter zone is opened, even if the alarm system is off.

The default setting for Perimeter Chime is Yes.

# **Enable Quick Arm**

The Quick Arm feature allows the security system to be armed by pressing the desired mode key twice instead of having to enter your code.

The default setting for Enable Quick Arm is No.

### **Enable Auto Bypass**

The Auto-Bypass feature allows the system to automatically bypass an open zone when the system is armed, rather than setting off the alarm. In some applications, it may be preferable to allow arming **only** if all zones are secure (READY).

With Auto-Bypass Off, all zones to be armed must be secure when the system is armed. Otherwise, the console will beep three times and display "ZONE NOT RDY". If the system is armed and a zone is open when the Exit Delay expires, the alarm will sound.

#### All On For Alarm

This option will instruct HMS 800 to execute an X-10 All On command in the event that any type of alarm occurs.

#### **Beep On Trouble**

If the HMS 800 detects any troubles with itself or one of the zones connected to it, it will display a message on the screen and beep the console twice per second, continuously (i.e. beep beep...beep beep...). You can silence this sound by pressing the '\*' key. However, if the trouble occurs again, the beeper will start beeping again.

If you do not wish to hear the beeping sound when trouble occurs, set Beep On Trouble to No.

The default setting for Beep On Trouble is Yes.

# **Set up Miscellaneous**

To configure Miscellaneous items in the system, from the Set Up menu, press the 6 (MISC) key.

# **High Security Mode**

In High Security Mode, the Master or Manager code is always required to do the following functions:

- Any Control functions
- Any Temperature Control
- View the Event Log
- Access the system from a local phone

With High Security Mode Off, no code is required to access a local telephone.

If your system is set up with High Security On, the display will request the Master or Manager code whenever you select one of these functions, even if the security system is Off. Simply enter your Master or Manager code.

Your system was shipped from the factory with High Security Off, which allows you to view the event log and access the local phones without having to enter a code. In most residential applications, this is appropriate. If you have a commercial installation, or would like added protection from unauthorized access to the system, you may wish to turn on High Security Mode.

#### **Announce Alarms**

If a Two-Way Audio Module is being used in a system, this item enables the system to speak the type of alarm and zone over a speaker on premises. When an alarm first occurs, the siren is activated. After a few seconds, the siren is turned off and the type of alarm is announced. The siren is then reactivated.

The default for Announce Alarms is No.

#### **Enable Freeze Alarm**

If there are one or more Thermostats, they can also be used to detect a freeze condition - See Freeze Alarm.

The default for Enabled Freeze Alarm is No.

#### **Flash For Alarm**

You may enter one unit number that will flash On and Off continuously when the alarm is activated. This should be an outside light to alert neighbors and police to your property if the alarm is activated.

The default Flash For Alarm is Unit 2. You may enter one number for the unit number you wish to have flash, or '0' for none.

#### X-10 Extended Code

Your X-10 house code can be configured to allow Extended Code transmissions. When configured for Extended Code transmissions, the controller will send the Extended Code Level Command instead of the X-10 Preset Dim Command.

X-10 EXTENDED CODE: 1 0=NO 1=YES ↓

If you are using X-10 compatible switches that respond to the Extended Code Level Command, press 1 then '#'. If you are using X-10 compatible switches that respond to the X-10 Preset Dim Command, press 0 then '#'.

The default setting for X-10 Extended Code is Yes.

# X-10 All Off

This feature allows you to choose if X-10 or ALC will respond to All Off commands.

X-10 ALL OFF: 1 0=NO 1=YES \$

The default setting for X-10 All Off is On.

#### X-10 All On

This feature allows you to choose if X-10 or ALC will respond to All On commands.

X-10	ALL ON:	1
0 = NO	1=YES	€

The default setting for X-10 All On is On.

#### **Time Clocks**

There are three time clocks in the system are used to conditionalize programs. They are used solely to define time periods during the week when certain programs should be enabled or disabled to execute.

#### TIME CLOCK 1 ON TIME CLOCK 1 OFF

Specify the On and Off times for each Time Clock - See Set Up Codes.

TIME CLOCK 1 ON TIME: 12:00 AM MTWTFSS #=CHNG TIME CLOCK 1 OFF TIME -- NEVER #=CHNG For example, it may be desirable to conditionalize certain programs to execute only during a normal Monday - Friday 9:00 AM - 5:00 PM work week.

The default for Time Clock 1 ON is 12:00 AM MTWTFSS, and the default for Time Clock 1 OFF is Never, so that Time Clock 1 is always Enabled.

TIME CLOCK 2 ON TIME CLOCK 2 OFF

TIME CLOCK 3 ON TIME CLOCK 3 OFF

Time Clocks 2 and 3 is entered into the system and set for time and dates exactly like the settings for Time Clock 1.

#### Latitude, Longitude, and Time Zone

The system automatically calculates the time of sunrise and sunset each day. Sunrise/sunset can be specified as the time a scheduling command is executed, as an enable/disable time, or as a darkness condition on a scheduling command or event button.

To enable the system to properly calculate sunrise and sunset times, latitude, longitude, and time zone must be set up during installation.

These items should be set to the proper values for the location where the HMS 800 is installed. The latitude and longitude for a particular location may be obtained from an almanac or map of the area. These values should be entered to the nearest degree.

The value entered for the time zone is the number of hours difference between local standard time at the HMS 800 location and Greenwich Mean Time. The following values should be used for the standard time zones in North America:

ZONE	NAME
4	ATLANTIC
5	EASTERN
6	CENTRAL
7	MOUNTAIN
8	PACIFIC
9	YUKON
10	ALASKA-HAWAII
11	BERING

The value specified for longitude may be adjusted to correct for areas, such as Nova Scotia, where the local time differs from Greenwich Mean Time by a non-hourly amount. The calculated time of sunrise/sunset will change by four minutes for every degree change in longitude. To cause the calculated sunrise/sunset to occur later, enter a larger value for longitude. Enter a smaller value for longitude to cause the time to occur earlier.

It is not necessary to alter the time zone to compensate for daylight savings time, the HMS 800 will automatically adjust its calculations for sunrise and sunset, and time when daylight savings time begins and ends.

LATITUDE:	30
0-60	↓
LONGITUDE:	90
0-180	↓
TIME ZONE:	6
0-12	↑

# Set Up Names

The system can be set up to display descriptive names such as "FRONT DOOR", "JOHN'S BEDROOM", or "PORCH LIGHT" for zones, units, buttons, and codes. These names are displayed instead of the zone, unit, button, and code number that is normally displayed. Zone names may be up to 15 characters long. Each of the other names may be up to 12 characters long.

To enter the Set Up Names menu, from the Setup menu, press the 7 (NAME) key.

```
SET UP NAME
1=CTRL 2=ZONE 3=BTTN ↓
2=CODE
```

Select the item that you would like to name by pressing one of the keys (1-5). The current name for the first item (unit, zone, button, or code) is then displayed. Use the arrow keys to scroll through the list of names.

To enter a name, enter the two digit code shown in Table 2 in the Appendix for each character in the name, then press the '#' key. Use the up arrow key to delete the most recently entered character.

ZONE 1: 00-95  $\downarrow$ ZONE 1: FRONT DOOR----- 00-95  $\uparrow$ =DEL ZONE 1: FRONT DOOR 00-95  $\downarrow$ 

User buttons (Buttons 1-16) may be named. The names of the event buttons are fixed to a description of the event that activates the button, such as "WHEN Z1 SEC" or "WHEN AWAY".

# Set Up Voice

The HMS 800 can be set up to speak descriptive names such as "FRONT DOOR" for control units, zones, buttons, and codes, temperatures, and messages. These names will be spoken over the telephone along with the item number that is normally spoken.

To enter the Set Up Voice menu, from the Setup menu, press the 8 (VOICE) key.

```
SET UP VOICE
1=CTRL 2=ZONE 3=BTTN↓
4=CODE
```

Select the item that you would like to name with a voice description by pressing a key (1-5). The number for the first item (unit, zone, button, or code) is then displayed. Use the arrow keys to scroll through the list of voice descriptions.

To enter a voice description, enter the one, two, or three digit code shown in Table 2 in the Appendix C for each description (word or group of words), then press the '#'key. After you have entered the complete description for each item (unit, zone, button, code, and temperature), press the '#'key twice. You may enter up to four descriptions (word or group of words) for each unit, zone, button, and code.

```
UNIT 1 VOICE: ↓
UNIT 1 VOICE:
144 109 ↓
```

When Unit 1 is spoken over the phone, the HMS 800 will say, "UNIT 1 - PORCH LIGHT".

# Set Up Address

The final setup item is accomplished over the telephone. This is the address that the system says when it dials out in an emergency. Your voice will be recorded on computer chips in the HMS 800 controller and saved to be played back in the emergency message when the system dials out for an alarm.

Pick up an inside phone and press the '#' key on the telephone within 3 seconds of picking up the phone. The HMS 800 will respond with a menu. Press 8 on the telephone keypad, then 8. The unit will say "ADDRESS IS:" then the HMS 800 will play back the message stored in the Address memory if one has been entered by your installer.

To record your address, Press 9, then enter the Master Code. The HMS 800 will say "RECORD ADDRESS", then BEEP. In a normal tone of voice, say your name and address and any helpful information for locating your house.

# "THE JONES RESIDENCE, 1234 JOHNSON STREET, CORNER OF JOHNSON AND THIRD STREET"

The unit will beep after 8 seconds, then play the address back to you. If you are not happy with the sound, re-record by pressing 9 and the Master Code. If you would like to hear the address again, press 8 for Play Address.

If you accidentally press 9 but have not entered your master code and do not wish to record a new address, simply hang up the phone. The address can be recorded from a local (in house) phone or a remote phone. We suggest using a local phone for higher sound quality.

- ➤ When the HMS 800 says "record address beep" any previous address recorded on your system is erased. Always verify that you have your name and address in your system if you have entered this function.
- When recording the address, do not press any touch-tone keys on your phone until the second beep, indicating that recording is complete. This will cause improper operation when the system dials out. The HMS 800 will think that the tone is a code being entered by the called party and it will stop talking.

# UNDERWRITER'S LABORATORIES REQUIREMENTS

For a complete list of requirements and restrictions when installing the HMS 800 panel in a UL Listed system, refer to the Underwriter's Laboratories Requirements section of the Installation Manual (Doc. No. 1307536).

# When used in UL Listed Installations, the following items apply:

- 1. The "High Security Mode" must be ON.
- 2. The "Enable Auto Bypass" must be OFF.
- 3. The ENTRY DELAY shall not exceed 45 seconds for residential applications.
- 4. The EXIT DELAY shall not exceed 60 seconds.
- 5. Double Delay and Quad Delay zone types shall not be used.
- 6. The DIAL OUT DELAY shall not exceed 30 seconds.
- 7. The BEEP ON TROUBLE feature must be ON, and CONSOLE SOUNDER must be ON.

Installer:

NAME:	
-------	--

NUMBER: \_\_\_\_\_

# FIRE ESCAPE PLANNING

Your fire protection system is designed to provide warning in the event of a fire. It is your responsibility to plan your escape routes in the event of a fire alarm. Your family should practice "fire drills" periodically to ensure that everyone is familiar with the plan.

- 1. Draw a floor plan of your home, showing location of fire and smoke detectors. Show two exit routes from each room: The primary exit and an alternate escape route.
- 2. Be sure that your family knows what the fire alarm signal sounds like.
- 3. In the event of a fire alarm, DO NOT open a closed door. First, touch the door. If it is hot to the touch, use the alternative escape route.
- 4. Since smoke tends to rise, keep low to the floor during your escape, crawling if necessary. If you encounter any smoke, hold your breath.
- 5. During a fire alarm, do not stop to pack or gather belongings. Exit immediately and meet at a designated spot outside the house.
- 6. DO NOT return to a burning house.
- 7. Notify the fire department using a neighbor's telephone.
- 8. Review your escape plan and rehearse a fire alarm periodically with your family.

# FEDERAL COMMUNICATION COMMISSION NOTICE:

- 1. This equipment complies with Part 68 of FCC Rules. On the door, inside of the HMS 800 enclosure, is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. If requested, provide this information to your telephone company.
- 2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compliant modular jack which is Part 68 compliant. See installation instructions for details.
- 3. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have those devices ring when your number is called. In most, but not all areas, the sum of RENs of all devices should not exceed five (5). To be certain of the number of devices you may connect to your line, as determined by the REN, you should call your telephone company to determine the maximum REN for your calling area.
- 4. If your HMS 800 system causes harm to the telephone network, the telephone company may disconnect you service temporarily. If possible, they will notify you in advance. You will be advised of your right to file a complaint with the FCC.
- 5. Your telephone company may make changes in it's technical operations, facilities, equipment, or procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of changes so as to give you an opportunity to maintain uninterrupted service.
- 6. In the event of equipment malfunction, all repairs should be made by our company or an authorized agent. It is the responsibility of users requiring service to report the need for service to our Company or to one of our authorized agents.

Service can be obtained at:

OnQ 301 Fulling Mill Road Suite G Middletown, PA 17057

- 7. This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or CORPORATION commission for information.)
- 8. This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - 1. This device may not cause harmful interference, and
  - 2. This device must accept any interference, including interference that may cause undesired operation.

Part 15 of FCC Rules are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient the receiving antenna.
- 2. Plug the receiver into a different outlet. If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

# CANADIAN INDUSTRY CANADA NOTICE

The Canadian Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection.

In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The <u>Load Number</u> (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used be the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to

requirement that the total of the Load Numbers of all the devices does not exceed 100.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

# IF YOU HAVE TROUBLE WITH YOUR PHONES

...and you suspect that your HMS 800 is causing the trouble, disconnect the Controller from the phone lines by removing the PHONE LINE cable from BOTH THE PROCESSOR BOARD AND THE RJ31X JACK INSIDE THE CONTROLLER ENCLOSURE.

# **APPENDIX A - SPECIFICATIONS**

Size:	Controller: Console:	9.1W x 12.1H x 3.5D 4.6W x 4.5H x 1.2D			
Weight:	Controller: Console:	approx. 4.5 lb. approx. 0.5 lb.			
Operating Ranges:		32 - 122 degrees F (0 - 50 degrees C) 10 - 95 % relative humidity, non-condensin	g		
Power:		120 VAC, 60 Hz, 60 watts			
Transform	er:	16.5 VAC, 40 VA, 50/60 Hz			
Battery:		Sealed Rechargeable Lead-Acid, 12 volts			
Bell Fuse:		Polyfuse: 1.35 A			
Device Fu	se:	Polyfuse: .9 A			
Output Fu	se:	Polyfuse: .3 A			
Battery Fu	ise:	Polyfuse: 2.5 A			
Polyfuses	are permanent	fuses that do not need replacement.			
Nominal (	Output Voltage:	10-13.8 VDC			
Low Volta	age Cut Out:	approx. 9 VDC			
Typical C	urrent Consump	otion at Nominal Voltage:			
	Controller:	105 mA			
	Console:	backlight off, 35 mA backlight on, 100 mA			
CONTRO	OLLER OUTP	UTS	UL RAT		
Devices:	AUX 12 VDC	, CONSOLE, and OUTPUTS 1 and 2:	200 mA		
Bell:	BELL		350 mA		

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CONTROLLER OUTPUTS		UL RATINGS	MAXIMUM
Devices:	AUX 12 VDC, CONSOLE, and OUTPUTS 1 and 2:	200 mA	500 mA
Bell:	BELL	350 mA	1 A
Outputs:	OUTPUTS 1 and 2, each, maximum:	100 mA	100 mA
Backup:	Required battery backup hours:	24 hours	
Battery:	Recommended Battery:	7 Ah	14 Ah

# **APPENDIX B - CHARACTER CODES**

CODE	CHAR	CODE	CHAR	CODE	CHAR	CODE	CHAR
00	SPACE	24	8	48	Р	72	h
01	!	25	9	49	Q	73	i
02	"	26	:	50	R	74	j
03	#	27	;	51	S	75	k
04	\$	28	<	52	Т	76	1
05	%	29	=	53	U	77	m
06	&	30	>	54	V	78	n
07	'	31	?	55	W	79	0
08	(	32	@	56	Х	80	р
09	)	33	А	57	Y	81	q
10	*	34	В	58	Ζ	82	r
11	+	35	С	59	[	83	s
12	,	36	D	60	¥	84	t
13	-	37	Е	61	]	85	u
14		38	F	62	۸	86	v
15	/	39	G	63	_	87	w
16	0	40	Н	64	`	88	х
17	1	41	Ι	65	а	89	у
18	2	42	J	66	b	90	Z
19	3	43	Κ	67	с	91	-
20	4	44	L	68	d	92	×
21	5	45	М	69	e	93	-
22	6	46	Ν	70	f	94	à
23	7	47	0	71	g	95	ß

# **APPENDIX C - VOICE DESCRIPTIONS**

<u>CODE</u>	<b>DESCRIPTION</b>	<u>CODE</u>	<b>DESCRIPTION</b>
1	ELEVEN	36	APPLIANCE
2	TWELVE	37	AREA
3	THIRTEEN	38	ATTIC
4	FOURTEEN	39	AUTO
5	FIFTEEN	40	AUXILIARY
6	SIXTEEN	41	AWAY
7	SEVENTEEN	42	BACK
8	EIGHTEEN	43	BASEMENT
9	NINETEEN	44	BATH
10	TWO	45	BATTERY
11	TWENTY	46	BED
12	THREE	47	BOY'S
13	THIRTY	48	BRIGHTER
14	FOUR	49	BUILDING
15	FORTY	50	BURGLAR
16	FIVE	51	BUTTON
17	FIFTY	52	BYPASS
18	SIX	53	CANCEL
19	SIXTY	54	CENTER
20	SEVEN	55	CLOSET
21	SEVENTY	56	CODE
22	EIGHT	57	CONTINUE
23	EIGHTY	58	(BEEP)
24	NINE	59	CONTROL
25	NINETY	60	COOL
26	A. M.	61	DATE
27	P. M.	62	DAY
28	WELCOME TO ON Q	63	DEGREES
29	(PAUSE)	64	DELAYED
30	(SHORT PAUSE)	65	DEN
31	AC POWER	66	DENIED
32	ACCESS	67	DIMMER
33	ADDRESS	68	DINING
34	ALARM	69	DOOR
35	ALL	70	DOWN

<u>CODE</u>	DESCRIPTION	<u>CODE</u>	<b>DESCRIPTION</b>
71	DRIVEWAY	109	LIGHT
72	DURESS	110	LISTEN
73	EAST	111	LIVING
74	EMERGENCY	112	LOW
75	ENERGY	113	MAIN
76	ENTER	114	MASTER
77	ENTRY	115	MEDICAL
78	EVENTS	116	MINUS
79	EXIT	117	MINUTES
80	FAMILY	118	MODE
81	FAN	119	MOTION
82	FIRE	120	NIGHT
83	FOYER	121	NORTH
84	FREEZE	122	NOT
85	FRONT	123	NOW
86	FUSE	124	NUMBER
87	GARAGE	125	NURSERY
88	GAS	126	OFF
89	GIRL'S	127	OFFICE
90	GLASS	128	ОН
91	GOOD-BYE	129	ON
92	GOTO	130	ONE
93	GUEST	131	OR
94	GUN	132	OUTDOOR
95	HAD	133	OUTLET
96	HALL	134	PANIC
97	HEAT	135	PATIO
98	HIGH	136	PC
99	HOLD	137	PERIMETER
100	HOURS	138	PHONE
101	HUNDRED	139	PLAY
102	INSTANT	140	PLEASE CHOOSE
103	INTERIOR	141	POINT
104	INVALID	142	POLICE
105	IS	143	POOL
106	KITCHEN	144	PORCH
107	LEFT	145	POUND
108	LEVEL	146	PRESS

<u>CODE</u>	DESCRIPTION	CODE	<b>DESCRIPTION</b>
147	PUMP	178	THERMOSTAT
148	READY	179	TIME
149	RECORD	180	TIMED
150	REMOTE	181	ТО
151	REPEAT	182	TROUBLE
152	RESTORE	183	TRIPPED
153	RIGHT	184	UNIT
154	RISE	185	UP
155	ROOM	186	VACATION
156	SAVER	187	WATER
157	SECONDS	188	WEST
158	SECURE	189	WINDOW
159	SECURITY	190	ZONE
160	SETTING	191	STOCK
161	SHOP	192	UTILITY
162	SIDE	193	EQUIPMENT
163	SILENT	194	COMPUTER
164	SOUTH	195	APARTMENT
165	SPA		
166	STAIRS		
167	STAR		
168	STATUS		
169	STEPS		
170	STORAGE		
171	SUN		
172	SYSTEM OK		
173	TALK		
174	TAMPER		
175	TEMPERATURE		
176	TEN		
177	THEN		

# NOTE TO INSTALLER

Following installation, this manual shall be left for the homeowner's use.