



A U T O M A T I O N

Control & Security System

User's Guide

Intrusion and Hold-up System

Contents

INTRODUCTION	1
OVERALL DESCRIPTION	2
Console Operation	2
Normal Top-Level Display	3
Alerts Display	3
Display Menus	4
Main Menu	4
Enable or Disable Console Beeper Locally at the Console	5
Error Beeps	5
Trouble and Tamper Beeps	5
Confirmation Beep	5
Cancel	5
Time Out	5
Areas	5
Omni™ Pro II Maintenance	6
SECURITY SYSTEM OPERATION	7
Disarming the Security System and Silencing Alarms	7
Disarming Methods	7
<input type="checkbox"/> Timed Disarming Method	7
<input type="checkbox"/> Shunt Lock Disarming Method	8
Arming the Security System	8
Using Shortcut Keys	9
What Happens When You Arm the Security System	9
Arming Methods	9
<input type="checkbox"/> Timed Arming Method	9
<input type="checkbox"/> Exit Door Arming Method	10
<input type="checkbox"/> Shunt Lock Arming Method	10
<input type="checkbox"/> Pushbutton Arming Method	10
Exit Error	10
Force Arm	10
<input type="checkbox"/> Alarm Restore	11
Bypassing Zones	11
Restoring Zones	11
What To Do When You Come Home	12
What Happens When the Alarm is Activated	12
Burglar Alarm Activated	12
Fire Alarm Activated	13
Gas Alarm Activated	13
<input type="checkbox"/> Emergency Keys	13
Police Emergency	14
Fire Emergency	14
Auxiliary Emergency	14
Duress Code Entered or Duress Alarm Activated	14
Alarm Reset	14
Alarm Cancel	14
Tamper	15

Trouble Indications	15
Codes	15
Master Code	16
Manager Code	16
User Code	16
❑ Duress Code	16
Panic Switches	16
Area Arming	16
Testing Your System	18
CONTROL	19
Control Commands	19
About UPB™	19
Leviton® Lighting Control (HLC) Format	20
About Rooms	20
About Room Controllers	20
Room Controller LED Indicators	20
About House Controllers	21
About Vizia RF™ Z-Wave®	21
Vizia RF Z-Wave Format	21
About CentraLite®	22
About Lutron® RadioRA®	22
About ALC	23
ALC Module Types	23
About X-10	23
House Codes	23
Unit Numbers	24
Scrolling Through Names	25
Controlling Units	25
Controlling a Room of HLC Lighting	25
Configuring Lighting Scenes in an HLC Room	25
Controlling Individual Lighting Loads in an HLC Room or UPB Units	26
Controlling Vizia RF Z-Wave	26
Controlling a Room of Vizia RF Z-Wave Lighting	26
Controlling Individual Lighting Loads in an Vizia RF Z-Wave Room	27
Controlling CentraLite Units	27
Controlling RadioRA Units	28
Controlling ALC or X-10 Units	28
Ramp Command (ALC)	28
Controlling Compose Units	29
Scene Command (Compose)	29
Timed Commands	30
Status of a Unit	30
Internal Flags	30
Controlling Outputs	31
All On / Off	31
All Lights On	31
All Off	31
Leviton Scene Control	32
Scene	32
Scene Commands	32
Scene Set Command	32

Scene On Command	32
Scene Off Command	33
UPB Links	33
Activating and Deactivating Links	33
Setting a Link (Lighting Scenes)	33
Executing Phantom Buttons	34
Executing Centralite Scenes	34
Buttons	35
Temperature Control	35
Leviton RC-Series Thermostats	36
Programmable Energy Saver Modules (PESMs)	37
Freeze Alarms	39
Indoor and Outdoor Temperature	39
Outdoor Temperature	40
Temperature Control of Appliances	40
Temperature Alarms	40
Humidity	40
Status	41
Configuring HLC Devices	41
Configuring HLC Devices using an <i>Omni</i> Console	41
Configuring HLC Devices using an OmniTouch Touchscreen	42
Setup Mode for HLC Devices	42
Event Log	45
Show Events	45
Messages	46
Record Memo Message	46
Play Memo Message	46
Clear Text Messages	46
Message	46
Show Message	47
Log Message	47
Clear Message	47
Say Message	47
Phone Message	47
Send Message (Pro-Link)	48
TELEPHONE CONTROL	49
Telephone Interface	49
In-House Phones	49
Remote Phones	49
Phone Access Denied - Remote Lockout	50
Alternate Method	50
Main Menu	50
1 - Control	51
2 - Security	51
GOTO Area	51
3 - Button	51
4 - All	51
5 - Temperature	51
6 - Status	52
7 - Events	52

8 - Message	53
Playing and Recording a Message	53
Paging and Listening	53
Playing and Recording a Custom Phrase	53
Playing and Recording the Address	54
9 - Good-Bye	54
Panic Button over the Phone (#####)	54
Emergency Dial-Out	55
Digital Dialer	55
Voice Dialer	55
How the <i>Omni Pro II</i> Voice Dialer Works	55
What the <i>Omni Pro II</i> Voice Dialer Does	55
What You Hear - If Your <i>Omni Pro II</i> Calls You	56
Entering the Code	56
PC Access	56
Built-In Ethernet Port	57
Controller IP Address, Port Number, and Encryption Key	57
<i>Omni Pro II</i> Ethernet Connections	57
Connecting to Network via PC Access	57
Dynamic DNS	58
SETUP	60
Configuration and Advanced Control Programming (ACP)	60
Set Up Codes	60
Authority Level	61
1 = Master	61
2 = Manager	61
3 = User	61
Access Areas	61
Set Up Time	62
Advanced Control Programming (ACP)	62
1 = Add Programs	63
2 = Show Programs	63
3 = Delete All Programs	64
Edit Programs	65
Edit Programs When	65
Times Programs	65
Button and Event Programs	66
Control Unit / Switch Press Event Buttons	66
Security Mode Event Buttons	67
Zone Event Buttons	68
All On/Off Event Buttons	69
UPB Link Event Buttons	69
Alarm Event Buttons	69
X-10 Event Buttons	70
Miscellaneous Event Buttons	70
Message Event Buttons (Pro-Link)	71
Switch Press Event Buttons (Centralite)	71
Edit Program Command	72
Program Control Commands	72
Unit Toggle Command	73
UPB Blink Command	73
Timed Level Command	73

Program Security Commands	73
Program Button Commands	74
Program All On / All Off Commands	74
Program Video Commands	74
Program Temperature Commands	74
Raise or Lower Temperature Command	74
Program Energy Cost	75
Program Message Commands	75
Display Message without Beeping / Without Beeping or Flashing the LED	75
Beep Command	75
Enable or Disable Beeper Programmatically	76
Edit Program Condition	76
Program Control Conditions	76
Program Security Mode Conditions	77
Program Zone Conditions	77
Program Time Clock Conditions	77
Program Other Conditions	77
Set Up Dial	78
Telephone Access	78
Answer Outside Call	78
Remote Commands	78
Rings Before Answer	79
Dial Type	79
My Phone Number	79
Dial Out Number 1	79
Dial Out Numbers 2-8	80
Dial Order	80
Set Up Arming	80
Set up Miscellaneous	80
Model and Version	80
Enable Installer	80
Enable F/W Update (Installer)	80
Controller IP Address	81
Controller Port Number	81
Encryption Key	81
Latitude, Longitude, and Time Zone	82
Daylight Savings	83
Time Clocks	83
High Security Mode	84
Announce Alarms	84
Enable Freeze Alarm	84
Flash For Alarm	84
Console 1-16 Audible Exit Delay	84
House Codes 1-16 Format	85
House Codes 1-16 All Off	85
House Codes 1-16 All On	85
Set Up Names	86
Set Up Voice	86
Set Up Address	87
AUDIO CONTROL	88
Changing Audio Source	88
Changing Audio Zone	88
Configuring Source and Zone Names	88
Programming Audio Commands	89
Example Programming of Audio Commands	89
Table 1 - Audio Commands	90

FIRE ESCAPE PLANNING 91

FEDERAL COMMUNICATION COMMISSION NOTICE: 92

CANADIAN INDUSTRY CANADA NOTICE 93

APPENDIX A - DIAL OUT PLANNER 94

APPENDIX B - TEXT DESCRIPTION CHARACTER CODES 95

APPENDIX C - VOICE DESCRIPTION CODES 96

NOTES ON CUSTOM PHRASES 99

APPENDIX D – ADVANCED FEATURES 100

WARNINGS AND CAUTIONS

- **WARNING: TO AVOID DEATH OR SERIOUS PERSONAL INJURY** never push objects of any kind into this product through openings, as they may touch dangerous voltages.
- **WARNING: TO AVOID DEATH OR SERIOUS PERSONAL INJURY** never touch uninsulated wires or terminals unless the wiring has been disconnected at the network interface.
- Read and understand all instructions. Follow all warnings and instructions marked on the product.
- **Do not use this product near water** - e.g., near a tub, wash basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- Never install communications wiring or components during a lightning storm.
- Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
- Use caution when installing or modifying communications wiring or components.
- **SAVE THESE INSTRUCTIONS.**

INTRODUCTION

Thank you for purchasing your new *Omni Pro II*-EU security and automation system. You are about to enjoy a new feeling of security, comfort, convenience, and control. *Omni Pro II* coordinates lighting, heating and air, security, scenes, and messages based on your lifestyle and schedule.

Please take a few moments to become familiar with all of the features of your system 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.

In the event that there are any questions, please call your installer first. If you need assistance directly from the manufacturer, call us at (504) 736-9810, between the hours of 9:00 AM and 5:00 PM Central Time, Monday-Friday. 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.

For your convenience, we suggest that you record this information:

MODEL NUMBER: _____

SERIAL NUMBER: _____

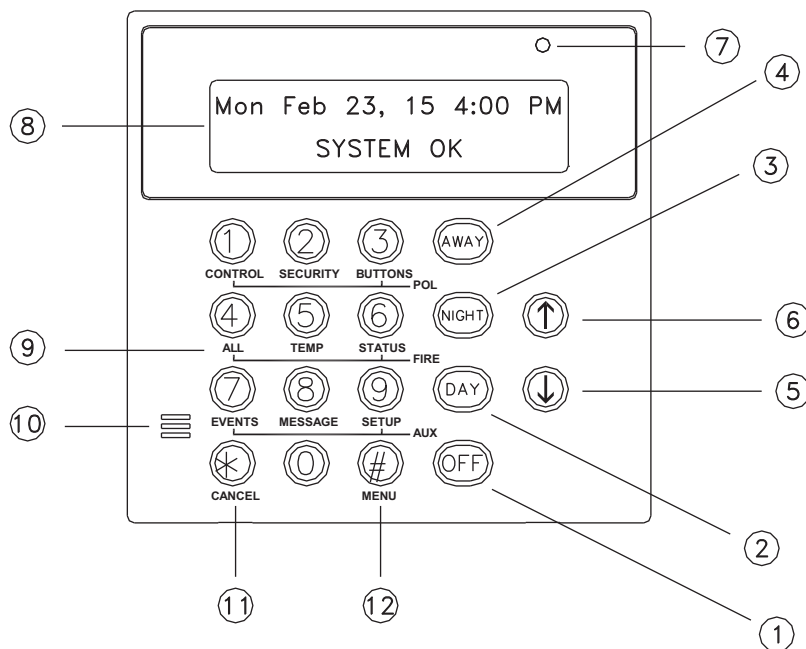
This product complies with the requirements of EN 50131-1:2006, EN 50131-3:2009, EN 50131-6, and PD 6662:2010 Standards for Class II, Grade 2 control and indicating equipment.

OVERALL DESCRIPTION

Console Operation

The console is designed with everything that is necessary for you to program and operate your *Omni Pro II* control and security system. Because we feel that it is very important for you to feel comfortable with the operation of your *Omni Pro II*, 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 having to go into one of the “hidden” menus.



1- ‘ OFF ‘

The ‘ OFF ‘ key is used to disarm (deactivate) the security system, reset 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 non-sleeping 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 light unit is being displayed, pressing the down arrow will cause the next light unit 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 as an alert indicator. When the system is disarmed, the LED is solid green for “System OK”, flashing red if there is an unacknowledged trouble or tamper condition, and solid red otherwise to indicate that there are other conditions present, such as acknowledged trouble or tamper conditions or bypassed zones. When the system is armed, the LED is always solid green.

8- CONSOLE DISPLAY

The Console Display is used to give useful information that will guide you through normal operations of your *Omni Pro II* control and security system. A user code (Level 2) is required to view alert indications and interact with the 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, troubles, tampers, and sounds 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. From the alerts display, ‘ * ‘ will also acknowledge trouble and tamper conditions and messages, and silence the beeper.

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 “PRESS # FOR ALERTS” on the bottom line as seen below:

Mon Feb 23, 15 4:00 PM
PRESS # FOR ALERTS

Alerts Display

Alerts are used to view the current security arming mode, trouble and tamper conditions, opened and bypassed zones, and other indications.

If the security system is disarmed and there is an alert indication or condition that would prevent the system from arming, the Console LED will be flashing red or solid red. If the security system is disarmed and there are no alert indications or conditions that would prevent the system from arming or if the security system is currently armed, the Console LED will be solid green.

To view alerts, press the ‘ # ‘ key followed by a valid user code. If the security system is disarmed, 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 tamper or trouble conditions, the bottom line will show “SYSTEM OK” as seen below:

Mon Feb 23, 15 4:00 PM
SYSTEM OK

If one of the doors, windows, motion, or other detector connected to the *Omni Pro II* is open, or has detected motion, the bottom line of the display will say, “ZONE NAME NOT RDY”.

For example, the display will show, “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 in a not ready, trouble, or tamper condition, or that is bypassed will be displayed.

If the security system is armed, the console display will show the time and security arming mode on the top line and the system status on the bottom line. For example, if all doors, windows, sensors, etc. are closed, no zones are bypassed, and if there are no trouble or tamper conditions, the bottom line will show “SYSTEM OK” as seen below:

```

4:00 PM          AWAY
      SYSTEM OK
  
```

After 1 minute of inactivity, the console will return to the top-level display.

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 (↑), down (↓), and two-headed (↕) 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 areas, buttons, codes, temperature zones, units, or 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. Note that the ‘ 6 ’ (STATUS) key is only available for the alerts display.

Main Menu

The main menu is entered from the alerts 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      2=SECURITY
3=BUTTON       4=ALL          ↓

5=TEMP         6=STATUS
7=EVENTS       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 and Energy Saver Modules.

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 play, record, show, log, clear, say, or phone a message.

Menu 9 - Allows you to enter setup mode for different operating configurations.

Enable or Disable Console Beeper Locally at the Console

From the top-level display or from the main menu, press the “0” key on the console keypad.

CONSOLE BEEP :
0=OFF 1=ON

Press 0 to disable the beeper at the respective console. Press 1 to enable the beeper at the respective console.

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 and Tamper Beeps

The *Omni Pro II* constantly checks the entire system for proper operation. If a trouble or tamper condition is found, if enabled by your installer, the console will beep at the rate of two beeps per second to alert you to the condition. If the security system is disarmed, the Console LED will flash red if the condition is unacknowledged and solid red if the trouble is acknowledged. To view the trouble condition, press the ‘ # ‘ key followed by a valid user code. This feature may be turned off by your installer.

Note: Fire, Gas, Tamper, and Burglar alarms take priority over Trouble and Tamper indications.

To silence “Trouble Beeps”, from the alerts display, 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. If you are on the alerts display, the console will “time out” after 1 minute returning you to the normal top-level display.

Areas

If there is an area or a separate building that needs to be protected, your installer can divide your *Omni Pro II* system into two independent security systems: Area 1 through Area 8 (up to 8 Areas). Each area has complete access to all of the capabilities of the *Omni Pro II*, yet the *Omni Pro II* can protect each area individually.

You may decide to use the Area feature if you have a guesthouse or workshop that you would like to have protected separately from your home, or maybe you have a business and would like to protect an inventory stockroom separately from the offices in your building.

The console in each area acts as if it were controlling its own *Omni Pro II* system. Each area is assigned, by your installer, a console, a group of zones, control units, macro buttons, messages, and thermostats. These items can only be controlled where they have been assigned.

Omni™ Pro II Maintenance

Your *Omni* Pro II controller and the consoles are designed to require very little maintenance.

For smoke detectors, motion detectors, and other components not manufactured by *Leviton*, 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 amp-hour 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 emergency alarms, and silences all sirens and sounders.

Press the OFF key.  Watch the display.

The top line will read “DISARM” - The bottom line will read “ENTER CODE”, indicating that you must enter your code number to disarm the system. For each digit that you press, an “X” will appear indicating that the key has been pressed. You have 60 seconds to complete the entry of the code.

Now enter your four-digit code. For example:     That's all there is to it!

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 four-digit again.

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

If you enter an incorrect code 5 consecutive times, all consoles will be disabled for 2 minutes and the console will display:

*** CODE LOCKED OUT ***

NOTES:

- Panic and Fire zones are always armed, as are the Emergency buttons on the console (if enabled by your installer).
- 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.

Disarming Methods

The following methods are available for disarming the security system. Please check the box for the method that your installer configured for your installation.



Timed Disarming Method

The Timed Disarming Method uses an Entry Delay when the security system is armed to Away or Vacation mode and an entry/exit zone is violated. The Entry Delay is the time, in seconds, that you have to disarm the alarm system after entering the protected premises. The Entry Delay **only** applies to the entry/exit zone (e.g. entry doors). If you (or someone else) come in through any other type of zone (e.g. 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, certain other zones in the entry path are delayed too. This allows you to get to a console to disarm the security system, even if you have to go through an area protected by a motion detector.

The Timed Disarming Method will disable all means of generating a confirmed alarm in PD6662 installations.

Shunt Lock Disarming Method

The Shunt Lock Disarming Method uses the deactivation of a shunt lock (i.e. unlocking the lock), followed by the violation of an entry/exit zone when the security system is armed to Away or Vacation mode to start the Entry Delay (see *Timed Disarming Method* for additional information about the Entry Delay). If the shunt lock is not deactivated prior to the violation of an entry/exit zone, the alarm will be activated immediately. Deactivating the shunt lock prior to the violation of an entry/exit zone will disable all means of generating a confirmed alarm in PD6662 installations.

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 alerts 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 entry/exit zones.

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 a delay until the arming process is complete so that you will have time to leave after you arm the system. Your installer will indicate which arming method you will use. The system will be fully armed after the arming process is complete. 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 an entry/exit zone.

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 other zones in the entry path (e.g. an interior motion detector in the path to the console) are disabled during the Entry Delay.

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.

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. The bottom line will display “*** ARMING SYSTEM ***” to indicate that the system is being armed. The system will be fully armed after the completion of the arming process.

The programmed Arming Method is _____.

The programmed Disarming Method is _____.

The programmed Entry Delay is _____ seconds.

The programmed Exit Delay is _____ seconds.

What Happens When You Arm the Security System

To arm the system into one of the 6 security modes, from the security menu, choose the security mode by pressing the appropriate key (1 - 6), and then enter your user code number on the console keypad or use one of the Shortcut Keys as described.

- The console will beep once
- The controller will cycle power to reset smoke detectors
- The bottom line will display, “ *** ARMING SYSTEM *** ” to indicate that the system is being armed.
- During the last 10 second of the arming process, the console will beep twice as fast.

The system will be fully armed after the completion of the arming process. After the completion of the arming process:

- The outdoor sounder will emit a short (0.5 second) tone.

Note: If a longer (3 second) tone is heard, the system did not arm. Please rearm the system, complete the arming process, and verify that the system has been armed.

Arming Methods

The following methods are available for arming the security system. Please check the box for the method that your installer configured for your installation.



Timed Arming Method

The Timed Arming Method uses an Exit Delay when the security system is armed to Away or Vacation mode. The Exit Delay is the time, in seconds, that you have to leave the protected premises through and entry/exit zone when you arm the security system to Away or Vacation mode.

- Consoles configured with Audible Exit Delay enabled, will beep until the arming process is complete. During the last 10 second of the Exit Delay, the console will beep twice as fast.
- If enabled, “Exit Time Restart” will restart the Exit Delay if the same entry/exit zone is violated twice within the original Exit Delay. For example, after arming the system if you open the front door to leave, close the front door behind you, and then reenter through the front door while the Exit Delay is still in effect, the Exit Delay will be restarted. This is designed to give you additional time to exit without causing an alarm. The exit time will only be restarted once within a given arming period.

- If “Unvacated Premises” is enabled, if no exit zone is violated during the Exit Delay (i.e. the premises was not vacated), the system will automatically arm to Day mode at the expiration of the Exit Delay.

Exit Door Arming Method

The Exit Door Arming Method uses the activation (opening and closing or closing) of a protective switch (i.e. door contact) on an entry/exit zone, followed by a 10 second delay, to complete the arming process when the security system is armed to Away or Vacation mode.

- Consoles configured with Audible Exit Delay enabled, will beep until the arming process is complete. After the switch on the entry/exit zone closes, the console will beep twice as fast for 10 second, and then the system will be fully armed.

Shunt Lock Arming Method

The Shunt Lock Arming Method uses the activation of a shunt lock (i.e. locking the lock) on an entry/exit zone, followed by a 10 second delay, to complete the arming process when the security system is armed to Away or Vacation mode.

- Consoles configured with Audible Exit Delay enabled, will beep until the arming process is complete. After the shunt lock is locked, the console will beep twice as fast for 10 second, and then the system will be fully armed.

Pushbutton Arming Method

The Pushbutton Arming Method uses the activation of a pushbutton switch mounted outside of the supervised premises, followed by a 10 second delay, to complete the arming process when the security system is armed to Away or Vacation mode.

- Consoles configured with Audible Exit Delay enabled, will beep until the arming process is complete. After the pushbutton switch is pressed, the console will beep twice as fast for 10 second, and then the system will be fully armed.

Exit Error

The Exit Error feature is designed to prevent accidental alarms caused while arming the security system to Away or Vacation mode. If a zone is violated (i.e. “Not Ready”) or a trouble occurs after the arming process has started, and is present at the completion of the arming process, the system will not arm. The outdoor sounder will emit a 3-second tone to alert you that the system did not arm.

Make sure all zones are secured or bypassed, or use the *Force Arm* feature to rearm the system and complete the arming process. The outdoor sounder will emit a short (0.5 second) tone after the completion of the arming process as verification that the system has been armed.

Force Arm

When you attempt to arm the security system to Away or Vacation mode while a zone is violated or trouble condition exists, after entering your user code the system will fail to start the arming process. The console will beep 3 times and the display will show:

```
ARM AWAY
ZONE NOT READY    #=FORCE
```

At this point, you can cancel the arming by pressing the ‘ * ‘ key, securing or bypassing any open zones, resolving any trouble conditions, and then rearming the system.

Otherwise, you can press the ‘ # ‘ key (FORCE) to force the system to arm. Any violated zones will automatically be bypassed for this arming period. The automatically bypassed zone will be automatically restored the next time you arm or disarm the system. The automatically bypassed event is recorded in the event log as “ZONE NAME BYPASSED”.

Alarm Restore

If your installer configured the Alarm Restore Level to Installer, after a confirmed alarm, your installer must restore your system before it can be rearmed. After a confirmed alarm, an alert is displayed on the alerts display to notify you:

Mon Feb 23, 15 4:00 PM
INSTALLER RESTORE NEEDED

If you attempt to arm the system before it is restored by your installer, the top line of the display will show: “INSTALLER RESTORE NEEDED” and the system will not arm.

Contact your installer to restore the alarm system so that it can be rearmed.

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 panic zone can be disarmed. 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 “remove it” from 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 on the alerts display when the 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 on the alerts display 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*.

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 alerts display and the zone will be checked for alarms.

To restore a zone, from the main menu or 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. The console will beep and the display will return to the previous display.

#=GOTO

To Bypass or Restore a zone in another area, you must first “go to” that area by selecting #=GOTO.

AREA:
ENTER AREA:

At this point you may enter the area number followed by the ‘ # ’ key, or use the down arrow key to scroll to the next area - *See Area Arming* for additional information.

What To Do When You Come Home

If you enter your home while the system is armed in the Day, Night Delay, Away, or Vacation mode using an entry door:

- The console beeper comes on and beeps 4 times per second.
- The console 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 and immediately disarm the security system. Upon entering the first digit of the user code, the console beeper is silenced. If canceled, or an incorrect code is entered, the beeper is restarted. If you wish, you may go directly to a different security mode, rather than disarming the system.

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

What Happens When the Alarm is Activated

Burglar Alarm Activated

When the system is armed, if a tamper condition is detected, if someone enters through any zone other than an entry/exit zone, if an armed zone is violated in the Night or **Day Instant** 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 waits the Outside Siren Delay (0 - 60 seconds), then activates the sounder.
- If enabled, the system waits the Dial Out Delay (1 - 60 seconds), and then if programmed, the in-house phones are seized (disconnected) and the *Omni Pro II* begins to dial out.

There is a communicator delay (Dial Out Delay) of 30 seconds in this control panel. It can be removed, or it can be increased up to 60 seconds. Please consult with your installer.

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 sirens, and flash the light(s) for the 6-30 minute Alarm Reset window.
- After Alarm Reset window has expired, the sounders are turned off, and the alarm system is reset. The console beeper stays on. If a zone is tripped after a reset, the alarm 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.

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

NOTES:

- If multiple alarm types occur, such as both Fire and Police, the display will alternate between the alarm types.
- To reset smoke detectors, arm the system. When armed, the controller will cycle power to reset smoke detectors.

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.

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

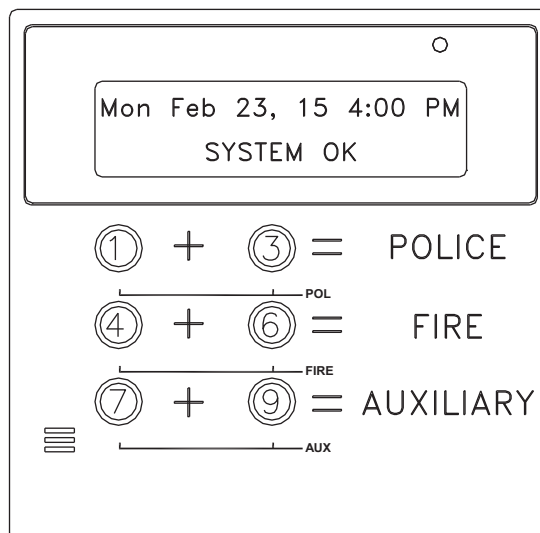
NOTE:

- To reset gas detectors, arm the system. When armed, the controller will cycle power to reset gas detectors.



Emergency Keys

If enabled by your installer, 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: If enabled, 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 key is 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”.
- The interior sounder and the outdoor siren are activated immediately. There is no outside siren delay.

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 sounders 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 reset.

Duress Code Entered or Duress Alarm Activated

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

In the event that you enter a 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, and then begins to dial out.

If you are having your system monitored, the central station will be sent a code representing a silent alarm (duress).

Alarm Reset

The alarm system will reset itself and turn off the sirens after the system has been in alarm for the configured Alarm Reset time window between 6-30 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.

Alarm Cancel

At any time, you can disarm and silence an alarm by pressing the Off key and entering your code. If the alarm is disarmed after the Dial Out Delay but within the Alarm Reset window, the communicator will send the alarm code followed by a code indicating that the user has canceled the alarm and the console will display “ *** ALARM CANCEL *** ”.

If an alarm is disarmed before the Dial Out Delay has expired, the system will not report anything to the central station and the console will display “ *** ALARM ABORTED *** ”.

If an alarm is canceled during a Voice Dial Out, the system hangs up immediately.

Tamper

The controller monitors certain devices for tamper conditions. If a tamper condition is detected and the security area is disarmed, the console will beep twice per second (if enabled by your installer) and continue to beep until acknowledged. To silence the beeper and acknowledge the tamper condition, from the alerts display, press the ‘ * ‘ key. The alerts display will show: “ZONE NAME TAMPER”.

If a tamper is detected and the security area is armed, the burglar alarm will be activated - *See Burglar Alarm Activated*.

Trouble Indications

The controller 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 alerts display and a trouble signal is given by beeping the console beeper continuously, 2 beeps per second when the system is disarmed.

When any trouble condition occurs, the console will beep twice per second (if enabled by your installer) and continue to beep until acknowledged. To silence the beeper and acknowledge the trouble condition, from the alerts display, press the ‘ * ‘ key. The alerts display will show “TRBL NOW” (trouble now) if the trouble condition actually exists while you are looking at the console. It will show “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 *Omni Pro II* 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 and check to see that the socket has power.
- **BATTERY LOW TRBL NOW or HAD TRBL:** Every hour, the *Omni Pro II* 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, from the alerts display, press the ‘ * ‘ key. If more than one type of trouble has occurred, the display will show each one for two seconds on the alerts display. Pressing the ‘ * ‘ key will acknowledge all trouble indications.

If the trouble condition occurs again, the console beeper will beep again.

- **NO CONTROLLER DATA:** Indicated when 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 99 Level 2 user codes that you may assign to users of the system. All *Omni Pro II* codes are 4 digits in length. A code can be any number from 0000 to 9999. Each user should be assigned a security code with an authority level, areas that can be accessed (if area arming is used), and times and days 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. A Master code is allowed access to all areas, all the time.

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 in assigned areas, 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 in assigned areas when the time assigned to that code is valid.



Duress Code

If a Duress Code is configured by your installer and you are forced to disarm the alarm system against your will by an intruder, you may disarm the alarm system as you normally would, but use the Duress Code instead of your normal code. The system will appear to disarm normally. No sirens will sound, no lights will flash, but the *Omni Pro II* will perform a silent dial out and report that a silent alarm occurred.

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.

Area Arming

If your installer has enabled the Area feature, the security system may be armed in Area 1, and disarmed in Area 2. In fact, each area may be armed in different security modes at the same time. Each area will have its own console that will control that area independently from the other.

When disarming the security system or arming the security system in any mode, the system will automatically control all security functions in the area of that console if your code is valid for that area.

If you have a Master code, your code is valid in any area. If you are in Area 2, and wanted to arm the system in the Away mode, simply press the Away key and enter your code. The system will automatically arm Area 2. The security mode in Area 1 will not change.

If you have a code that is only valid in Area 1, you will not be able to disarm or arm Area 2.

If you are in Area 1 and wish to disarm the security system in Area 2, *Omni Pro II* will allow you to disarm Area 2 from the console in Area 1 if you have a Master code or a code that is valid for both areas.

From the top-level display or from the main menu, press the 2 (SEC) key on the console keypad.

Press the 0 (OFF) key, the display will show:

DISARM
ENTER CODE : #=AREA

Press the ' #' (AREA) key, the display will show:

AREA :
ENTER AREA 0=ALL ↓

The Area number can be entered followed by the ‘ # ‘ key, or the arrow keys may be used to scroll through a list of areas. If the ‘ 0 ‘ key is pressed, then all areas will be selected.

Press the 2 key then the ‘ # ‘ key. You will then be prompted to enter your code. The display will show:

```
DISARM AREA 2
ENTER CODE:
```

If the ‘ 0 ‘ (ALL) key had been selected, the display will show:

```
DISARM ALL AREAS
ENTER CODE:      #=AREA
```

As the four-digit code is entered, “X” characters are echoed after the “ENTER CODE:” prompt.

If the Master code or a valid code is entered, the console will beep one time and Area 2 will be disarmed.

The system will not arm another area if any zones in that area are not ready. For example, if any zone in Area 2 is violated, after you enter the code, the console will beep three times and display “AREA 2” on the top line, and “ZONE NOT READY #=FORCE “ on the bottom line.

```
AREA 2
ZONE NOT READY    #=FORCE
```

At this point, you can press the ‘ # ‘ key (FORCE) to force the system to arm in the respective. Any violated zones will automatically be bypassed for this arming period. The automatically bypassed zone will be automatically restored the next time you arm or disarm the system. The automatically bypassed event is recorded in the event log as “ZONE NAME BYPASSED”.

GOTO Area

From the security menu, press the # (GOTO) key on the console keypad.

```
AREA:
ENTER AREA      ↓
```

The Area number can be entered followed by the ‘ # ‘ key, or use the arrow keys to scroll through a list of areas. Once the area is selected, you are prompted to enter your code:

```
GOTO AREA 2
ENTER CODE
```

The console (AREA 1) will now be temporarily assigned to the selected area (AREA 2) if a valid code for that area (AREA 2) is entered. All security and control commands will now operate on the selected area (AREA 2), just as if you were physically at a console assigned to that area (AREA 2). All status displays will show the status of the selected area.

The top line of the display will show the name and security mode for that area.

Use the “go to” function again to return to the area normally assigned to that console (AREA 1). The console will automatically return to its normal area after three minutes of inactivity at the console.

Testing Your System

You should test 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, arm the alarm system. When it is armed, violate a zone. 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 alerts display on 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, press the # key, and then enter a valid code. When the menu is spoken, press 8, then 3. The *Omni Pro II* 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 the Dial Out Delay (if enabled), and then turn the alarm system Off. The Central Station should receive the alarm code and cancel signal.
8. Remember to inform your Central Station when the test is complete.
9. To see a complete list of alarm system activities, view the system event log – **See Event Log.**

CONTROL

Control Commands

The control features of the *Omni Pro II* 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 *Omni Pro II* can be used to program lights to make the home or business look occupied as a deterrent to thieves.

The methods that the *Omni Pro II* uses to control different devices are:

- UPB™ switches, modules, and keypads for lights and appliances
- Z-Wave® lighting devices (such as *Leviton's* Vizia RF™ series of lighting control devices)
- CentraLite® loads and relays on a LiteJet and Elegance lighting system
- RadioRA® switches and dimmers on a Lutron® *RadioRA* lighting system
- ALC switch modules for lights and appliances
- X-10 compatible modules (X-10, X-10 Pro, *Leviton*, PCS, ACT, Lightolier, etc.) for lights and small appliances.
- *Leviton* Communicating Thermostats for controlling Heating, Ventilation, and Air Conditioning Systems.
- Programmable Energy Saver Modules (PESM) for central heating and air conditioning systems.
- Direct Output Control for relays to activate sprinklers, lighting, electric heating, etc.

An *Omni Pro II* will control:

- 250 *UPB* switches, modules, and keypads (up to 31 rooms of HLC Lighting)
- 232 *Z-Wave* lighting devices
- 192 CentraLite loads and relays
- 64 *RadioRA* switches and dimmers 248 ALC switch modules
- 256 X-10 compatible modules (all sixteen house codes)
- 64 *Leviton* Communicating Thermostats
- 8 PESMs or Voltage Outputs (expandable to 136)

Omni Pro II also has 119 internal “flags” that are used for programming conditionals and executing programs.

About UPB

UPB is a powerline communications standard for lighting and home control. *UPB* is a robust, two-way digital powerline carrier communications protocol which transmits signals over the existing wires in a home. *UPB* can coexist peacefully with X-10 systems, intercoms, baby monitors, speakers, etc. that communicate over the powerline.

Using a Powerline Interface Module (PIM), *Omni Pro II* sends *UPB* commands over the existing electrical wiring to special switches, modules, and keypad controllers (*UPB* devices) that are designed with *UPB* technology. *UPB* switches are two-way devices, so *Omni Pro II* knows the actual status of the switch when it is controlled locally. In addition, *UPB* switches, modules, and keypads can be used to trigger macros in the *Omni Pro II* controller.

When set to *UPB*, the *Omni Pro II* controller can:

- Send commands (on, off, bright, dim and level) to individual switches and modules
- Receive commands and status from individual switches and modules
- Send commands to keypad controllers to change scenes and control LED backlight behind the keys
- Receive commands when buttons are pressed on keypad controllers to activate controller macros
- Send Link commands to switches, modules, and keypad controllers to activate scenes
- Receive Link commands when a button is pressed on a switch or on a keypad controller to activate controller macros
- Send “Status Request” messages to switches to update their status in the controller
- Receive the *UPB* Acknowledgement pulse that indicates that a switch has properly executed a command

Leviton Lighting Control (HLC) Format

Leviton Lighting Control (HLC) combines *Leviton UPB* Wall Switches, Dimmers, and Modules, *Leviton UPB* Room Controllers, and *Leviton UPB* House Controllers to create lighting scenes that set the proper mood and ambiance for various activities.

HLC format is a defined structure for configuring, programming, and operating all the HLC lighting devices in your home. Each “House Code” that is configured to use the HLC format consists of 2 rooms with up to 8 HLC devices in each room. *Omni Pro II* supports up to 31 rooms of HLC lighting. *Omni Pro II* can control up to 248 HLC devices.

Leviton manufactured *UPB* devices (collectively referred to as HLC devices) can be configured using an *Omni* console or *OmniTouch* touchscreen connected to the *Omni Pro II* controller. Other *UPB* devices may be used in the HLC structure, but cannot be configured using the *Omni Pro II* controller; they must be configured using a PC running the *UPB* UPStart configuration software – see *Configuring HLC Devices*.

About Rooms

Each “room” of HLC lighting consists of 8 consecutive unit numbers, starting at Unit 1 (i.e. Room 1 = Units 1-8, Room 2 = Units 9-16, Room 3 = Units 17-24, etc.). Each room can consist of a maximum of 8 HLC devices, configured as follows:

- Up to 7 *Leviton UPB* Wall Switches, Dimmers, and/or Modules (for controlling up to 7 lighting loads in a room or area)
- 1 or more Room Controllers (set a scene in a room, turn the room on and off, and dim and brighten the room)
- 1 House Controller (for controlling up to 8 rooms of HLC lighting)
- 1 or more House Controllers (used as a general purpose 8 button keypad controllers)

The first unit number in each room (i.e. 1, 9, 17, 25, etc.) is reserved for controlling the room. The name for this unit should reflect the room name (e.g. Kitchen, Great Room, Theater, etc.) HLC Wall Switches, Dimmers, or Modules cannot be programmed to these unit numbers. If one or more Room Controllers are used, the first Room Controller should be set to the first unit number in the group (i.e. Unit 1); additional Room Controllers can be used by setting each to any other unused unit number in the group (i.e. Units 2-8).

About Room Controllers

The *Leviton UPB* 6-Button Room Controller allows for lighting control of a room where *Leviton UPB* Wall Switches, Dimmers, and Modules have been installed. From a Room Controller the room can be turned off (all loads in the group are turned off), turned on (all loads in the group are turned on), brightened (all loads are brightened from their current level), dimmed (all loads are dimmed from their current level), or set to one of 4 lighting scenes (A-D).

Room Controller LED Indicators

When the room is turned on, the LED indicator behind the “On” button is illuminated and all others are turned off. When the room is turned off, the LED indicator behind the “Off” button is illuminated and all others are turned off. When the room is brightened, the LED indicator behind the “On” is illuminated and all others are turned off. When the room is dimmed, the LED indicator that is currently illuminated stays on. When the room is set to a lighting scene (A-D), the LED indicator behind the respective scene letter is illuminated and all others are turned off.

When “Status Tracking” is enabled (this is the default setting), *Omni Pro II* keeps track of the exact status of each unit even when a lighting scene is initiated by the Room Controller. Room Controllers also keep track of when individual switches in a room are turned on and off. When all of the lighting loads in a room are turned off, the “Off” indicator is illuminated. If any of the lighting loads in a room are turned on at an *Leviton UPB* Wall Switch or Dimmer, the “On” indicator will illuminate and the “Off” indicator is turned off. Likewise, if the “On” indicator or one of the scene indicators is illuminated, and then all of the lighting loads are turned off at *Leviton UPB* Wall Switches, the “Off” indicator will illuminate and any others are turned off.

About House Controllers

The *Leviton UPB* 8-Button House Controller allows for controlling all 8 rooms of lighting where *Leviton UPB* Wall Switches, Dimmers, and Modules have been installed. It can also be configured as a general purpose 8 button keypad controller used to trigger 8 different macro programs in the *Omni Pro II* controller or to toggle between two different actions (i.e. turn lighting load on...turn lighting load off) each time a pushbutton is pressed.

When used to control rooms of lighting in the HLC structure, each button on the House Controller is used to toggle all of the lights in the respective room on and off. When the room is turned on, the LED indicator behind the respective button is illuminated and all of the lights in the room are turned on. When the room is turned off, the LED indicator behind the respective button is turned off and all of the lights in the room are turned off. If a lighting load in the respective room is turned on, the LED indicator behind the button is illuminated. When all lighting loads in the respective room are turned off, the LED indicator behind the button is turned off.

When used to control rooms of lighting in the HLC structure, each House Controller controls 8 consecutive rooms (i.e. Room 1-8, Room 9-16, Room 17-24, and Room 25-31). To configure a House Controller to control a group of 8 rooms, it must be set to the last unit number in one of the respective rooms. For example, a House Controller set to Unit 8, 16, 24, 32, 40, 48, 56, or 64 is configured to control rooms 1-8. This allows you to have up to 8 House Controllers throughout the house that control rooms 1-8.

Within the HLC structure, House Controllers can also be configured as a general purpose 8 button keypad controller that is used to trigger 8 different macro programs in the *Omni Pro II*. When configuring a House Controller as a general purpose 8 button keypad controller, it must be set to a unit number between the first and last unit number in a room (i.e. 2-7, 10-15, 18-23, 26-31, 34-39, etc.). When configured as a general purpose 8 button keypad controller, programs must be created in the *Omni Pro II* controller for the LED indicator behind each button to function.

About Vizia RF Z-Wave

Z-Wave is a wireless network protocol used in a wide variety of home automation devices made by numerous manufacturers. In addition to supporting standard *Z-Wave* lighting devices and communicating thermostats, *Leviton* has worked in partnership with *Leviton* to support the advanced features of *Leviton's Vizia RF* series of lighting control devices, including lighting scenes and two way communications.

Vizia RF Z-Wave Format

Vizia RF Z-Wave format is a defined structure for associating, programming, and operating all the *Vizia RF* and *Z-Wave* lighting devices in your home.

Each “House Code” that is configured to use the *Vizia RF Z-Wave* format consists of 2 rooms with up to 8 *Vizia RF* and/or *Z-Wave* devices in each room. *Omni Pro II* supports up to 29 rooms of *Vizia RF Z-Wave* lighting. Each *Vizia RF Z-Wave* device has its own Node ID (1-232).

About Rooms

Each “room” of *Vizia RF Z-Wave* lighting consists of 8 consecutive unit numbers, starting at Unit 1 (i.e. Room 1 = Units 1-8, Room 2 = Units 9-16, Room 3 = Units 17-24, etc.). Each room can consist of a maximum of 8 *Vizia RF* and/or *Z-Wave* devices, configured as follows:

- Up to 7 *Vizia RF* or *Z-Wave* lighting devices (for controlling up to 7 lighting loads in a room or area)
- 1 or more pushbutton controllers

The first unit number in each room (i.e. 1, 9, 17, 25, etc.) is reserved for controlling the room. The name for this unit should reflect the room name (e.g. Kitchen, Great Room, Theater, etc.). *Vizia RF* or *Z-Wave* lighting devices cannot be associated with these unit numbers.

If one or more pushbutton controllers are used, the first pushbutton controller should be set to the first unit number in the group (i.e. Unit 1); additional pushbutton controllers can be used by setting each to any other unused unit number in the group (i.e. Units 2-8).

Using a console, touchscreen, or other interface to *Omni Pro II*, the room can be turned off (all loads in the group are turned off), turned on (all loads in the group are turned on), or set to one of 4 lighting scenes (A-D).

About CentraLite

CentraLite is a centralized lighting control system that uses hardwired lighting control or wireless radio frequency technology to control lighting loads, fans, and mechanical low voltage relays.

CentraLite lighting scenes are used to control groups of lights which are preset to turn on to various levels of dimming.

When set to CentraLite, the *Omni Pro II* controller can:

- Send commands (on, off, and level) to individual loads and relays
- Receive status (on and off) from individual loads and relays
- Execute scene commands (on and off) to control lighting scenes
- Receive commands when buttons are pressed on a CentraLite keypad

About Lutron RadioRA

Lutron RadioRA uses wireless communication technology to control lighting. Each Switch or Dimmer controls one Zone, or area, of lighting in a *RadioRA* system. Accessory Switches and Dimmers are used to control the lights locally from up to 9 additional locations. Master controls provide control and monitoring for all the lights in a *RadioRA* system.

Phantom Buttons are “virtual” buttons in the RS232 Interface. Though there are no physical buttons that represent these Phantom Buttons, they work very similarly to buttons on *RadioRA* Master Controls. Phantom Buttons are intended to give the RS232 Interface control over multiple *RadioRA* Switches and Dimmers with one command. To control more than one device at one time, Phantom Buttons are recommended.

A Zone is any individual *RadioRA* Switch or Dimmer. A *RadioRA* System has a maximum of 32 Lighting Zones. Zone Numbers can be used to identify any individual Zone (one Switch or one Dimmer), in a *RadioRA* system via the RS232 Interface. The Chronos System Bridge and Timeclock bridges two *RadioRA* systems for a total of 64 Lighting Zone Controls and 24 Master Controls.

When set to *RadioRA*, the *Omni Pro II* controller can:

- Send commands (on, off, and level) to individual Switches and Dimmers
- Receive status (on and off) from individual Switches and Dimmers
- Receive commands when buttons are pressed on Master Controls
- Execute Phantom Button commands

About ALC

ALC is intended for installation in homes, which have been pre-wired for installation of ALC system products. *Omni Pro II* controls lights and appliances by sending commands over the ALC signal wiring to ALC Switch Modules. ALC Switches communicate with the *Omni Pro II* 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 *Omni Pro II*.

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

ALC Module Types

The ALC modules types are: Dimmer Switch, Relay Switch, Slave Switch, Program Switch, and 4-Button Scene Switch Modules.

About X-10

The *Omni Pro II* 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. Each module (or group of modules) is assigned a House Code and a Unit Number so that the *Omni Pro II* can control the modules individually. When a module hears a command from the *Omni Pro II* for its house code and unit number, it executes the command.

There are 3 different X-10 formats: Standard X-10 (Preset Dim), Extended X-10 (Extended Level), and Compose.

Any module that is “X-10 Compatible” will work with the *Omni Pro II*. The modules come in various types.

House Codes

Omni Pro II can control up to 256 lighting and appliance devices. Each device (switches, modules, and keypad) has its own Unit Number (1-256). *Omni Pro II* groups devices by “House Code”, which consists of 16 consecutive unit numbers, starting at Unit 1. Each “House Code” can be configured to a different lighting protocol format such as: Standard X-10, Extended X-10, Lightolier Compose, *UPB* (open *UPB* format where you can use the programming capability in the *Omni Pro II* controller to communicate with the *UPB* network), *Lutron RadioRA*, *Centralite*, or *Leviton* Lighting Control (HLC).

Different lighting devices can not share the same House Code. However, different lighting devices can coexist on an *Omni Pro II* system as long as they are on separate House Codes. For example:

House Code 1 (Units 1-16) = HLC
House Code 2 (Units 17-32) = *UPB*
House Code 3 (Units 33-48) = X-10 Extended
House Code 4 (Units 49-64) = *Centralite*
Etc.

Unit Numbers

Omni Pro II systems have 511 total Unit Numbers. They consist of HLC, *UPB*, *Z-Wave*, *Centralite*, *RadioRA*, ALC, Compose, and X-10 module unit numbers, hardwire voltage output unit numbers, and internal flag unit numbers as follows:

Omni Pro II Unit Numbers	Module / Output Unit Numbers
1 - 16	HLC or <i>Z-Wave</i> Room 1 and 2, <i>UPB</i> Unit ID 1-16, <i>Z-Wave</i> Node ID 1-16, <i>Centralite</i> loads 1-16, <i>RadioRA</i> Lighting Zones or Master Controls 1-16, and X-10 modules 1 – 16 (House Code X)
17 - 32	HLC or <i>Z-Wave</i> Room 3 and 4, <i>UPB</i> Unit ID 17-32, <i>Z-Wave</i> Node ID 17-32, <i>Centralite</i> loads 17-32, <i>RadioRA</i> Lighting Zones and Master Controls 17-32, or X-10 modules 1 – 16 (House Code X+1)
(1 - 31)	ALC addresses 1-31, Module 1 - Branch 1 *
33 - 48	HLC or <i>Z-Wave</i> Room 5 and 6, <i>UPB</i> Unit ID 33-48, <i>Z-Wave</i> Node ID 33-48, <i>Centralite</i> loads 33-48, <i>RadioRA</i> Lighting Zones and Master Controls 33-48, or X-10 modules 1 – 16 (House Code X+2)
49 - 64	HLC or <i>Z-Wave</i> Room 7 and 8, <i>UPB</i> Unit ID 49-64, <i>Z-Wave</i> Node ID 49-64, <i>Centralite</i> loads 49-64, <i>RadioRA</i> Lighting Zones and Master Controls 49-64, or X-10 modules 1 – 16 (House Code X+3)
(33 - 63)	ALC addresses 1-31, Module 1 - Branch 2 *
65 - 80	HLC or <i>Z-Wave</i> Room 9 and 10, <i>UPB</i> Unit ID 65-80, <i>Z-Wave</i> Node ID 65-80, <i>Centralite</i> loads 65-80, or X-10 modules 1 – 16 (House Code X+4)
81 - 96	HLC or <i>Z-Wave</i> Room 11 and 12, <i>UPB</i> Unit ID 81-96, <i>Z-Wave</i> Node ID 81-96, <i>Centralite</i> loads 81-96, or X-10 modules 1 – 16 (House Code X+5)
(65 - 95)	ALC addresses 1-31, Module 1 - Branch 3 *
97 - 112	HLC or <i>Z-Wave</i> Room 13 and 14, <i>UPB</i> Unit ID 97-112, <i>Z-Wave</i> Node ID 97-112, <i>Centralite</i> loads 97-112, or X-10 modules 1 – 16 (House Code X+6)
113 - 128	HLC or <i>Z-Wave</i> Room 15 and 16, <i>UPB</i> Unit ID 113-128, <i>Z-Wave</i> Node ID 113-128, <i>Centralite</i> loads 113-128, or X-10 modules 1 – 16 (House Code X+7)
(97 - 127)	ALC addresses 1-31, Module 1 - Branch 4 *
129 - 144	HLC or <i>Z-Wave</i> Room 17 and 18, <i>UPB</i> Unit ID 129-144, <i>Z-Wave</i> Node ID 129-144, <i>Centralite</i> loads 129-144, or X-10 modules 1 – 16 (House Code X+8)
145 - 160	HLC or <i>Z-Wave</i> Room 19 and 20, <i>UPB</i> Unit ID 145-160, <i>Z-Wave</i> Node ID 145-160, <i>Centralite</i> loads 145-160, or X-10 modules 1 – 16 (House Code X+9)
(129 - 159)	ALC addresses 1-31, Module 2 - Branch 1 *
161 - 176	HLC or <i>Z-Wave</i> Room 21 and 22, <i>UPB</i> Unit ID 161-176, <i>Z-Wave</i> Node ID 161-176, <i>Centralite</i> loads 161-176, or X-10 modules 1 – 16 (House Code X+10)
177 - 192	HLC or <i>Z-Wave</i> Room 23 and 24, <i>UPB</i> Unit ID 177-192, <i>Z-Wave</i> Node ID 177-192, <i>Centralite</i> loads 177-192, or X-10 modules 1 – 16 (House Code X+11)
(161 - 191)	ALC addresses 1-31, Module 2 - Branch 2 *
193 - 208	HLC or <i>Z-Wave</i> Room 25 or 26, <i>UPB</i> Unit ID 193-208, <i>Z-Wave</i> Node ID 193-208, or X-10 modules 1 – 16 (House Code X+12)
209 - 224	HLC or <i>Z-Wave</i> Room 27 and 28, <i>UPB</i> Unit ID 209-224, <i>Z-Wave</i> Node ID 209-224, or X-10 modules 1 – 16 (House Code X+13)
(191 - 223)	ALC addresses 1-31, Module 2 - Branch 3 *
225 - 240	HLC Room 29 and 30, <i>Z-Wave</i> Room 29, <i>UPB</i> Unit ID 225-240, <i>Z-Wave</i> Node ID 225-232, or X-10 modules 1 – 16 (House Code X+14)
241 - 256	HLC Room 31, <i>UPB</i> Unit ID 241-250, or X-10 modules 1 – 16 (House Code X+15)
(225 - 255)	ALC addresses 1-31, Module 2 - Branch 3 *
257 - 272	Outputs 1-16, 1st Expansion Enclosure *
273 - 288	Outputs 1-16, 2nd Expansion Enclosure *
289 - 304	Outputs 1-16, 3rd Expansion Enclosure *
305 - 320	Outputs 1-16, 4th Expansion Enclosure *
321 - 336	Outputs 1-16, 5th Expansion Enclosure *
337 - 352	Outputs 1-16, 6th Expansion Enclosure *
353 - 368	Outputs 1-16, 7th Expansion Enclosure *
369 - 384	Outputs 1-16, 8th Expansion Enclosure *
385 - 392	Voltage Outputs (1-8), Fully Configurable
393 - 511	Internal Flags
	“X” Represents the House Code setting on the <i>Omni Pro II</i> Controller
	“*” If used

Scrolling Through Names

The *Omni* Pro II stores names for Units, Zones, Buttons, Codes, Temperatures, and Messages 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 unit, zone, button, code, temperature, or message 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. Only named items are displayed on an OmniTouch touchscreen.

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. *Omni* Pro II 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 by the '#' key, or scroll up and down among the named items.

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

Controlling a Room of HLC Lighting

```
Living Room
0=OFF 1=ON 2-5=A-D      ↓

Living Room
6=SET                  #=STA ↑
```

- Press 0 (OFF) to turn the selected room off (all lighting loads in the room are turned off).
- Press 1 (ON) to turn the selected room on (all lighting loads in the room are turned on).
- Press 2 (A) to set all of the lighting loads in the selected room to their preset levels for Scene A.
- Press 3 (B) to set all of the lighting loads in the selected room to their preset levels for Scene B.
- Press 4 (C) to set all of the lighting loads in the selected room to their preset levels for Scene C.
- Press 5 (D) to set all of the lighting loads in the selected room to their preset levels for Scene D.
- Press 6 (SET) to set up a lighting scene for the all of the lighting loads in the selected room (On, A-D).
- Press # (STA) to view the current status of the room.

Configuring Lighting Scenes in an HLC Room

Lighting scenes are created by configuring light levels for HLC lighting devices in a room. Each HLC device in a room can store up to four different preset lighting scenes (Scenes A-D) and one "On" Scene (preset lighting levels for each device when the room is turned on). To set a lighting scene using the *Omni* console, adjust all of the HLC devices in the room to the desired lighting levels. The desired lighting levels (0% - 100%) may be set manually at the switch, or by issuing commands from the *Omni* Pro II controller. After the desired lighting levels are set, use the 6 (SET) command to save the new "light levels" for each device in the selected room.

```
Living Room SET
1=ON 2-5=A-D
```

When the scene command is transmitted (either using a Room Controller or by the *Omni* Pro II controller), each HLC device in the specified room will brighten or fade to its preset level for the selected scene.

Each lighting scene can also be set or easily changed using the pushbuttons on the *Leviton UPB* 6-Button Room Controller, as follows:

Step	Operation
1	Press the desired pushbutton on the <i>Leviton UPB</i> 6-Button Room Controller to activate the current scene (preset lighting level) in each of the HLC devices.
2	Use the local rocker switch on each <i>UPB</i> Wall Switch Dimmer(s) to set the desired lighting level(s) or issue commands from the <i>Omni Pro II</i> controller.
3	Press the pushbutton on the <i>Leviton UPB</i> 6-Button Room Controller five (5) times quickly.
4	Each <i>UPB</i> Wall Switch Dimmer will flash its lighting load one time to indicate that the new level has been configured.

Controlling Individual Lighting Loads in an HLC Room or *UPB* Units

To control individual lighting loads in a room, use the down arrow key to scroll through the list of units. When the unit is displayed, press the ‘ # ’ key. For HLC/*UPB* lighting loads, the console will display:

```
LR Sconce
0=OFF 1=ON 2=DIM 3=BRT  ↓

LR Sconce
4=LVL 6=LED 9=TIM #=STA  ↑
```

- Press 0 (OFF) to turn the selected lighting load off .
- Press 1 (ON) to turn the selected lighting load on.
- Press 2 (DIM) to dim the selected unit (1-9 steps, each step is 10% from its current level).
- Press 3 (BRT) to brighten the selected unit (1-9 steps, each step is 10% from its current level).
- Press 4 (LVL) to set the desired lighting level of the selected unit (0%-100%).
- Press 6 (LED) to turn on or off the LED behind the specified button on a general purpose 8-Button or 6-Button Keypad.
 - Specify 1-8 to control the LED behind buttons 1-8 respectively, and then select 0 (OFF) or 1 (ON).
- Press 9 (TIM) to time the selected unit (On, Off, Dim, Brighten).
 - Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours.
- Press # (STA) to see the exact status of a *UPB* device. When the ‘ # ’ key is pressed, *Omni Pro II* sends a “Status Request” message to the selected device for its current state. The exact state is then displayed.

```
LR Sconce
STATUS 67%
```

Note: When a *UPB* signal is received over the powerline, *Omni Pro II* will automatically update the status of the device.

Controlling *Vizia RF Z-Wave*

It is imperative that each unit be named. If a unit is not named, it will not show up in the list of rooms and loads that are able to be controlled. The only exception is for additional push button controllers. If you have assigned a Node ID to a Unit, but do not name it, the *Omni Pro II* will interpret that as a push button controller, so *Z-Wave* messages from that push button controller will not be ignored.

Controlling a Room of *Vizia RF Z-Wave* Lighting

```
Living Room
0=OFF 1=ON 2-5=A-D  ↓

Living Room
6=SET #=STA  ↑
```

- Press 0 (OFF) to turn the selected room off (all lighting loads in the room are turned off).
- Press 1 (ON) to turn the selected room on (all lighting loads in the room are turned on).
- Press 2 (A) to set all of the lighting loads in the selected room to their preset levels for Scene A.
- Press 3 (B) to set all of the lighting loads in the selected room to their preset levels for Scene B.
- Press 4 (C) to set all of the lighting loads in the selected room to their preset levels for Scene C.
- Press 5 (D) to set all of the lighting loads in the selected room to their preset levels for Scene D.
- 6 (SET) is not used with *Vizia RF Z-Wave* lighting.
- Press # (STA) to view the current status of the room.

Controlling Individual Lighting Loads in an *Vizia RF Z-Wave* Room

To control individual lighting loads in a room, use the down arrow key to scroll through the list of units. When the unit is displayed, press the ‘ # ’ key. For *Vizia RF Z-Wave* lighting loads, the console will display:

```
LR Sconce
0=OFF 1=ON 2=DIM 3=BRT ↓
```

```
LR Sconce
4=LVL 5=RMP 9=TIM #=STA ↑
```

- Press 0 (OFF) to turn the selected lighting load off.
- Press 1 (ON) to turn the selected lighting load on.
- Press 2 (DIM) to dim the selected unit (1-9 steps, each step is 10% from its current level).
- Press 3 (BRT) to brighten the selected unit (1-9 steps, each step is 10% from its current level).
- Press 4 (LVL) to set the desired lighting level of the selected unit (0%-100%).
- 5 (RMP) is not used with *Vizia RF Z-Wave* lighting.
- Press 9 (TIM) to time the selected unit (On, Off, Dim, Brighten).
 - Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours.
- Press # (STA) to see the status of the device.

Note: When a *Z-Wave* signal is received over the network, *Omni Pro II* will automatically update the status of the device.

Controlling CentraLite Units

```
Entry Lights
0=OFF 1=ON 2=DIM 3=BRT ↓
```

```
Entry Lights
4=LVL 5=RMP 9=TIM #=STA ↑
```

- Press 0 (OFF) to turn the selected unit off.
- Press 1 (ON) to turn the selected unit on.
- 2 (DIM) does not affect CentraLite units.
- 3 (BRT) does not affect CentraLite units.
- Press 4 (LVL) to set the desired lighting level of the selected unit (0%-100%).
- 5 (RMP) does not affect CentraLite units.
- Press 9 (TIM) to time the selected unit (On or Off). Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours.
- Press # (STA) to see the status (On or Off) of a CentraLite device.

Controlling *RadioRA* Units

Entry Lights
0=OFF 1=ON 2=DIM 3=BRT ↓

Entry Lights
4=LVL 5=RMP 9=TIM #=STA ↑

- Press 0 (OFF) to turn the selected unit off
- Press 1 (ON) to turn the selected unit on.
- 2 (DIM) does not affect *RadioRA* units.
- 3 (BRT) does not affect *RadioRA* units.
- Press 4 (LVL) to set the desired lighting level of the selected unit (0%-100%).
- 5 (RMP) does not affect *RadioRA* units.
- Press 9 (TIM) to time the selected unit (On or Off). Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours.
- Press # (STA) to see the status (On or Off) of a *RadioRA* device.

Note: When a *RadioRA* device transmits a signal (i.e. Switch or Dimmer is turned on or off locally, Mater Control button is pressed, or Phantom Button is executed), *Omni Pro II* will automatically update the status of each affected device.

Controlling ALC or X-10 Units

Entry Lights
0=OFF 1=ON 2=DIM 3=BRT ↓

Entry Lights
4=LVL 5=RMP 9=TIM #=STA ↑

- Press 0 (OFF) to turn the selected unit off.
- Press 1 (ON) to turn the selected unit on.
- Press 2 (DIM) to dim the selected unit (1-9 steps, each step is 10% from its current level).
- Press 3 (BRT) to brighten the selected unit (1-9 steps, each step is 10% from its current level).
- Press 4 (LVL) to set the desired lighting level of the selected unit (0%-100%).
- Press 5 (RMP) to ramp the lighting level of an ALC Dimmer Switch to a new level at a selectable ramp rate.
 - 5 (RMP) does not affect X-10 units.
- Press 9 (TIM) to time the selected unit (On or Off). Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours.
- Press # (STA) to view the current status of the unit.

Ramp Command (ALC)

When ALC Switch 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. Only ALC Dimmer Switches respond to the Ramp command.

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:

Entry Lights 40% AT 1H

Controlling Compose Units

Entry Lights
0=OFF 1=ON 2=DIM 3=BRT ↓

Entry Lights
4=SCN 9=TIM #=STA ↑

- Press 0 (OFF) to turn the selected unit off.
- Press 1 (ON) to turn the selected unit on.
- Press 2 (DIM) to dim the selected unit (1-9 steps, each step is 10% from its current level).
- Press 3 (BRT) to brighten the selected unit (1-9 steps, each step is 10% from its current level).
- Press 4 (SCN) to set a group of lights to their predefined lighting levels.
- ^a Press 9 (TIM) to time the selected unit (On or Off). Timed commands may be from 1-99 seconds, 1-99 minutes or 1-18 hours.
- Press # (STA) to view the current status of the unit.

Scene Command (Compose)

If Compose lighting switches are part of your installation, the Scene (SCN) command is used to set a group of lights to predefined lighting levels. There is an Off command, an On command, and 12 lighting scenes for each group of Compose lighting switches.

SCENE:
0=OFF 1=ON 2-13=A-L

Enter 0, followed by the ‘ # ‘ key, to turn the lights that are part of the selected group off. Enter 1, followed by the ‘ # ‘ key, to set the lights that are part of the selected group to predefined lighting levels.

To set the lights in the selected group to a predefined scene, enter the Scene number 2-13 (which corresponds to Scene A-L, respectively), followed by the ‘ # ‘ key. All lights that are part of the selected group are set to the predefined lighting levels for the selected Scene.

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.

Lighting units (1-256) 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:

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

Status of a Unit

To see the status of a 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.

```
Entry Lights      1:22:10
STATUS ON
```

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

Note: If an X-10 signal is received over the powerline, *Omni Pro II* will automatically update the status of the X-10 unit.

Internal Flags

The easiest way to define a flag is to refer to it as a “virtual relay”. A flag can be in one of three separate states: On, Off, or set to a value between 0 and 255. If a flag has a value of 1-255, it is considered “On”. If a flag has a value of 0 it is considered “Off”. Flags are a powerful programming tool that can be used in several ways to accomplish advanced programming routines. 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 now 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, Decrement (DEC), Increment (INC), Set, and Timed ON/OFF.

Controlling Outputs

The *Omni Pro II* has eight outputs that can be used to switch relays. Outputs 1-8 are controlled as Unit Numbers 385-392, respectively. If the Interior Horn is configured as a “General Purpose” output, Unit Number 393 is used to control the output. If the Exterior Horn is configured as a “General Purpose” output, Unit Number 394 is used to control the output. In this configuration, Unit Numbers 393 and 394 should not be used as “Flags”.

These 12 VDC voltage outputs are connected directly to the *Omni Pro II* 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 and are **not** affected by All ON or All Off commands.

All On / Off

The All On/Off menu is used to turn all unit numbers in the specified House Codes on and off. When configured, the House Code will affect 2 rooms of HLC or *Vizia RF Z-Wave* lighting (i.e. HC 1 ALL OFF affects Room 1 and 2).

Note: *UPB*, *CentraLite*, and *RadioRA* devices are not affected by the *Omni Pro II* “All On” or “All Off” command. To achieve this functionality, we suggest the following:

UPB: Program a Link into each device that will respond to an *Omni Pro II* “All On” and “All Off” command program. For example:

In each *UPB* switch that will respond to “All Off” and “All On”, program a Link (in this example, Link 50 is used) that will go to 100% when activated (turned on). Then write the following programs in the *Omni Pro II* controller:

```
WHEN ALL ON: LINK 50 ON
WHEN ALL OFF: LINK 50 OFF
```

CentraLite: Program the “All On” and “All Off” macro to execute an All On Scene and an All Off Scene on the *CentraLite*.

RadioRA: Program the “All On” and “All Off” macro to execute Phantom Button 16 (All On) and Phantom button 17 (All Off).

For example:

```
WHEN ALL ON: PHANTOM BUTTON 16 ON WHEN
ALL OFF: PHANTOM BUTTON 17 ON
```

This All On/Off menu is also used to control *Leviton* Scenes, *RadioRA* Phantom Buttons, *UPB* Links, and *CentraLite* Scenes. From the top-level display or from the main menu, press the 4 (ALL) key on the console keypad.

```
ALL
0=OFF 1=ON 2=SCN 3=LINK ↓

ALL
4=PHANTOM 5=CENLIT ↓
```

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 on all specified X-10 and ALC units and HLC Rooms. X-10 Appliance Modules do not respond when the All Lights On command is sent. All House Codes (1-16), by factory default, respond to the All-On command.

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

All Off

At the ALL prompt, press the 0 (OFF) key. The console will beep, and a command will be sent that turns off all specified X-10 and ALC units and HLC Rooms. All House Codes (1-16), by factory default, respond to the All-Off command.

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

Leviton Scene Control

Omni Pro II supports *Leviton Scene Control* (a feature found in certain *Leviton Switches*). There are 256 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 256 Scenes that can be set and executed. The X-10 units (unit numbers 1-256) 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															
UNIT NUMBERS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1	X	X	X	X												
	2	X	X	X	X												
	3	X	X	X	X												
	4	X	X	X	X												
	5					X	X	X	X								
	6					X	X	X	X								
	7					X	X	X	X								
	8					X	X	X	X								
	9									X	X	X	X				
	10									X	X	X	X				
	11									X	X	X	X				
	12									X	X	X	X				
	13													X	X	X	X
	14													X	X	X	X
	15													X	X	X	X
	16													X	X	X	X

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 :
1-256

Enter the Scene number (1-256) followed by 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 on each House Code affected by a Scene.
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 on a particular house code. 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.

UPB Links

In a *UPB* network, all control operations are done using Links. *Omni Pro II* can transmit and receive up to 250 Links on the *UPB* network. Links are used to logically “connect” events on one or more devices to actions on one or more other devices. When two or more different devices share a common Link, they are said to be “linked” together. They can now communicate with each other over the powerline using the Link as a common identifier in all of their communications.

The power of Links is that you can “link” more than two devices together. For example, one keypad controller pushbutton can be linked to four *UPB* Wall Switches allowing the single press of that pushbutton to trigger all four lights to go to preset or absolute levels. In addition *UPB* Wall Switches allow for a preset light level and fade rate to be associated with each Link.

Activating and Deactivating Links

A special *UPB* command called “Link On” (activate) is used to command all of the devices that have the same Link to go to their preset light levels at their preset fade rates.

For instance, in our “All On” and “All Off” example, when “Link 50 On” is transmitted by *Omni Pro II*, each *UPB* Wall Switch with Link 50 will go to 100% to achieve the “All On” effect. Other “Link On” (activate) commands may be transmitted that cause Wall Switch ‘1’ to go to a desired level at a specified fade rate and Wall Switch ‘2’ to go to a different level at a different fade rate. The ability to send more than one device to its preset level at a preset fade rate with a single command is known as activating a Link. Likewise, pressing a pushbutton on a 6-Button or 8-Button Keypad can send the “Link On” (activate) command.

A special *UPB* command called “Link Off” (deactivate) is used to command all of the devices that have the same Link to go to 0% at their preset fade rate. For instance, in our “All On” and “All Off” example, when “Link 50 Off” is transmitted by *Omni Pro II*, each Wall Switch with Link 50 will go to 0% to achieve the “All Off” effect.

Setting a Link (Lighting Scenes)

Lighting scenes are created by pre-configuring light levels and fade rates in one or more *UPB* devices that get “activated” and “deactivated” by a Link command or button press on a 6-Button or 8-Button Keypad.

Each *UPB* Wall Switch can hold up to sixteen different preset light levels (0% - 100%) that can be “linked” to the *Omni Pro II* controller or to a pushbutton on a 6-Button or 8-Button Keypad.

Omni Pro II can “set” each of the 250 possible Links. The “Link Set” command is used to set up lighting scenes for a lighting group. To set a “lighting scene” using *Omni Pro II*, adjust all of the *UPB* Wall Switches with the pre-configured Link to the desired lighting levels. The desired lighting levels may be set manually at the switch, or by a command issued from *Omni Pro II*. After the desired lighting levels are set, the “Link Set” command can be transmitted by *Omni Pro II* to save the new “light levels” for each of the devices pre-configured with the specified Link.

Executing Phantom Buttons

Omni Pro II can turn on and turn off each of the 17 possible Phantom Buttons. Phantom Buttons must be pre-programmed into the RS-232 interface or Chronos. Phantom Button 16 is always assigned to “All On” (if the Phantom button is turned on or off) and Phantom Button 17 is always assigned to “All Off” (if the Phantom button is turned on or off).

To issue Phantom Button commands, from the top-level display or from the main menu, press the 4 (ALL) key on the console keypad, and then press the 4 (PHANTOM) key. You are prompted to enter a Phantom Button (1-17).

```
ENTER  BUTTON :  
1-17
```

Enter the Phantom Button number (1-17) followed by the ‘ # ‘ key.

```
PHANTOM  BUTTON  1  
0=OFF  1=ON
```

When a Phantom Button is turned on, all of the devices that are pre-programmed with that Phantom Button will go to their preset light levels. When a Phantom Button is turned off, all of the devices that are pre-programmed with that Phantom button will turn off.

Executing CentraLite Scenes

Omni Pro II can turn on and turn off each of the 255 possible CentraLite Scenes. To issue CentraLite Scenes commands, from the top level display or from the main menu, press the 4 (ALL) key on the console keypad, and then press the 5 (CENLIT) key. You are prompted to enter a Scene (1-255).

```
ENTER  SCENE :  
1-255
```

Enter the CentraLite Scene number (1-255) followed by the ‘ # ‘ key.

```
CENLIT  SCENE  1  
0=OFF  1=ON
```

When a CentraLite Scene is turned on, all of the devices that are pre-programmed for that scene will go to their preset light levels. When a CentraLite Scene is turned off, all of the devices that are pre-programmed for that scene will turn off.

Buttons

A powerful feature of the *Omni Pro II* is the ability to program **Buttons**. A Button (also known as macro) is a number on the keypad that is programmed to execute 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 128 buttons with descriptive names. The 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 *Omni Pro II* 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 *Leviton* Communicating Thermostats, Programmable Energy Saver Modules, and Temperature Sensors. The status of each of these may also be displayed on the console.

Leviton Communicating Thermostats and the Programmable Energy Saver Module (PESM) provides 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 *Leviton* Communicating Thermostats are digital heating and cooling thermostats that can be controlled by 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 *OmniPro II* system.

Leviton RC-Series Thermostats

The following control actions are allowed for *Leviton* 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.

Press the ‘ 0 ’ key to select all *Leviton* Thermostats. This is a simple way to broadcast the new Heat or Cool setting or change the system mode, fan mode, or hold mode of all *Leviton* thermostats in your system. Temperature zones 1-64 are for *Leviton* thermostats.

```
TEMPERATURE :  
ENTER TEMP ZONE    0=ALL ↓
```

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 *Leviton* 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:

```
Upstairs FAN
0=AUTO 1=ON
```

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:

```
Upstairs HOLD
0=OFF 1=ON
```

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      ↓

Upstairs
MODE: AUTO FAN: AUTO   ↑
```

If hold mode is On, “HOLD” is shown:

```
Upstairs 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              ↓

Upstairs
MODE: HEAT FAN: AUTO  ↑
```

Programmable Energy Saver Modules (PESMs)

The PESH is used when you have any thermostat, other than a *Leviton* Communicating Thermostat, and would like to control your heating and cooling system with the *Omni* Pro II system. The PESH is a temperature sensor and control relay in a small enclosure that mounts near your central heating, ventilation, and air conditioning (HVAC) system thermostat. The PESH allows the *Omni* Pro II to read the temperature of the area that the HVAC system controls. When you are away or asleep, the PESH can be set to allow the temperature to drift higher or lower to reduce the operating time, hence saving energy dollars.

The PESH provides an energy saver function. When the energy saver is on, the HVAC system is set back, meaning that the temperature is allowed to rise or fall to an energy saving level. When the energy saver is off, your thermostat operates normally. Your thermostat should be set to the desired comfort temperature. Only when the energy saver is on will the temperature be allowed to deviate from your normal thermostat setting.

There are three temperatures associated with each PESH:

Temperature - this is the air temperature read by the PESM.

Heat temperature - the air temperature will be allowed to fall to this temperature when the energy saver is on.

Cool temperature - the air temperature will be allowed to rise to this temperature when the energy saver is on.

The following control actions are allowed on PESMs:

- Turn Energy Saver On and Off
- Turn Energy Saver On and Off for a specified time
- Set heating setpoint
- Set cooling setpoint

You can turn the energy saver on, off, use a timed on/off, and change the Heat and Cool temperatures from the console or by telephone. Commands can also be programmed so that they occur by time schedule or by event, such as security mode change. For example, the system can be set up to turn the energy saver(s) On and make the Heat setback temperature 65 degrees and the Cool setback temperature 80 degrees when the alarm system is put in the Away mode. Another program can turn the energy saver(s) off (to resume normal operation of the HVAC system) at 4:30 P.M. on weekdays to make the house comfortable before arriving home. Different setback temperatures could be set for the Night mode.

NOTE: To set up your thermostat for use with a PESM, set it in the appropriate mode and set the temperature to your preference. Your heating and cooling system will always be off if you set your thermostat to Off mode. The PESM cannot turn it back on. The PESM cannot make your system cool below the thermostat's cool setting, or heat above the thermostat's heat setting.

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 ↓
```

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

For Programmable Energy Saver Modules:

```
Upstairs  
0=OFF 1=ON 2=HEAT ↓
```

```
Upstairs  
3=COOL 4=TIME   #=STAT ↑
```

For temperature sensors:

```
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 anything other than zero. Enter a leading zero if necessary.

In additions to setpoint changes, an energy saver may be turned On or Off. It may also be turned On or Off for a specific duration.

To turn the energy saver Off, select 0 (OFF). To turn the energy saver On, select 1 (ON). To turn the energy saver On or Off for a specific duration, select 9 (TIME) prior to selecting On or Off. Enter the time as described under Control - Unit Commands.

```

Downstairs
0=OFF  1=ON          2=HEAT↓

Downstairs
3=COOL  9=TIME       #=STAT↑

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

Downstairs
0=OFF  1=ON          FOR 15M
                               ↓

```

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.

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

IMPORTANT NOTES:

- There is a 3-minute minimum on and off time for PESMs designed to prevent short cycling your HVAC compressor. If the PESM has just turned the HVAC system on or off, it will wait 3 minutes before changing it, even though the display does change.
- If you change the Heat or Cool setback temperature on the PESM, the system will insure that there is always at least four degrees Fahrenheit difference between the Heat and Cool temperatures by altering the other setback temperature as necessary.
- PESMs are **NOT** affected by All On or All Off commands.

Freeze Alarms

Thermostats and PESMs can also be used to report potential freeze conditions before damage to pipes and appliances can occur. An alarm is activated when any Thermostat or PESM detects a temperature below 40 degrees. 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).

Indoor and Outdoor Temperature

The Model 31A00-1 Temperature Sensor is used for sensing temperatures from 0° F - 120° F and 31A00-7 Extended Range Temperature Sensor is used for sensing temperatures from -40° F - 120° F. It features a new, high accuracy temperature sensor that doesn't need calibration.

The temperature can be used to activate programs for controlling temperatures indoors and in attics, garages, greenhouses, basements, wine cellars, coolers, and freezers. The temperature can be displayed on the console or spoken over the telephone. It can also report, log, alert, or generate an alarm if the temperature reaches freeze conditions or if the temperature goes above the high setpoint or drops below the low setpoint programmed in the system.

Outdoor temperature zones have a High and Low temperature associated with them that can be used for control purposes. An example of this is to program the system to turn on the bathroom heat if the outdoor temp goes below 45 degrees. High and Low temperatures are changed the same way as a PESM.

When a temperature sensor is selected from the list of temperature devices, you may set a “Low” and “High” setpoint for activating programs or alarms. Enter the desired temperature then press the ‘ # ‘ key.

Upstairs
2=LOW 3=HIGH #=STAT

For negative temperatures (-1° to -40°), press the ‘ # ‘ key prior to entering the temperature to make the number negative. A 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.

Outdoor Temperature

A Model 14A00 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, rather than as a PESM zone type. When set up this way, the corresponding auxiliary output is not dedicated to the Model 14A00 and may be used for other purposes. Also, the outdoor temperature will not generate freeze alarms.

Outdoor temperature zones have a High and Low temperature associated with them that can be used for control purposes. An example of this is to program the system to turn on the bathroom heat if the outdoor temp goes below 45 degrees. High and Low temperatures are changed the same way as a PESM.

Temperature Control of Appliances

You can control appliances connected to X-10 and ALC modules (such as a ceiling fan) using Advanced Control Programming (ACP) of the *Omni Pro II*. For example, the ceiling fan can be programmed to come on if the temperature goes above the High temperature.

High and Low setpoints for temperature zones are changed the same way as the PESM. However, 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 PESM or Model 14A00 Temperature Sensor and the ceiling fan are linked together by an event 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.

The High and Low setpoints are changed as described for the PESM. 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.

Humidity

The Model 31A00-2 Indoor/Outdoor Temperature and Humidity Sensor is used for sensing indoors temperature and/or reporting the relative humidity from 0 to 100 percent or for sensing the outdoor temperature and/or reporting the outdoor relative humidity.

High and low humidity limits can be set for taking action (i.e. turning on the bathroom vent fan, running a/c in de-humidification mode, turning on humidifier in heating mode, etc.) or reporting high or low humidity conditions in homes, greenhouses, wine cellars, coolers, humidors, etc. Controlling humidity is particularly helpful in combating the growth of mold in vulnerable areas of the home, such as bathrooms, basements, attics, etc.

The humidity level (0-100%), the low humidity setting, and high humidity setting can be viewed and modified using the temperature menu. To enter the temperature menu, from the top-level display or from the main menu, press the 5 (TEMP) key. The humidity zone can be specified by entering the zone number followed by the ‘ # ‘ key, or by pressing the arrow keys to scroll through the list of temperature and humidity zones. Press the ‘ # ‘ key when the desired temperature zone is shown.

INDOOR: HUMI: 75
LOW: 10 HIGH: 90

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
6=ENERGY                  ↑
```

1 = CTRL (CONTROL UNITS)

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

```
DEN LAMP
STATUS OFF      ↓
```

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 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 or press ‘ # # ’ to configure and HLC or *UPB* device.

Note: Only *Leviton* manufactured *UPB* devices (collectively referred to as HLC devices) can be configured using an *Omni Pro II* controller. Other *UPB* devices may be used, but cannot be configured using the *Omni Pro II* controller; they must be configured using a PC running the *UPB* UPStart configuration software.

Configuring HLC Devices

HLC devices can be configured using an *Omni* console or OmniTouch touchscreen connected to the *Omni Pro II* controller. When configuring HLC devices, the following information is programmed into the HLC device:

- Network ID (*UPB* Network ID configured in *Omni Pro II* controller)
- Network Name (*Leviton* Lighting)
- Unit ID (Unit Number of respective unit)
- Unit Name (which is the name description given to the respective unit in the *Omni Pro II* controller)
- Room Name (using HLC, the name of the first unit in the respective group is used; otherwise the room number is used)
- Links (every device in each room is programmed with 6 consecutive Links, starting with Link 1; for example, every device in Room 1 is programmed with Links 1-6, Room 2 is programmed with links 7-12, etc.) Other configuration information

When configuring HLC devices using an *Omni* console or OmniTouch touchscreen, each device (unit number) must first be assigned a name in the *Omni Pro II* controller. *Leviton* recommends that you first configure your *Omni Pro II* controller (naming all of the HLC units) using the *Leviton* PC Access Software, and then download the information to the *Omni Pro II* controller.

Configuring HLC Devices using an *Omni* Console

To configure HLC devices from an *Omni* console, use the Status menu. 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      ↓
```

Press 1 (CTRL) to view the current status of each unit and to configure the HLC device that is assigned for each unit. The console will display:

```
Porch Light
STATUS OFF      ↓
```

You may enter a unit number to display the selected unit, or simply press the down arrow key to scroll through the list of named units.

When the desired unit is displayed, put the selected HLC device into Setup Mode (**See - Setup Mode for HLC Devices**), and then press the ‘ # ‘ key twice (i.e. # #). The display will provide you with step-by-step configuration status. When complete, the display shows:

```
CONFIGURE Porch Light
COMPLETED
```

Once completed, press the ‘ # ‘ key to return to the Status display and select your next unit (device). Put the next selected HLC device into Setup Mode (**See - Setup Mode for HLC Devices**) and then press the ‘ # ‘ key twice to configure the selected device.

Configuring HLC Devices using an OmniTouch Touchscreen

To configure HLC devices from an OmniTouch touchscreen, press the “Control” icon on the Home page. Select the desired unit from the Control list box to display the unit dialog. Put the selected HLC device into Setup Mode (**See - Setup Mode for HLC Devices**), and then press the “Config” button.

The display will provide you with step-by-step configuration status. Once completed, press the Exit icon.

Setup Mode for HLC Devices

To configure *Leviton UPB* Wall Switches and Dimmers, put the device in Setup mode as follows:

Step	Operation
1	Tap the rocker switch quickly 5 times.
2	The <i>Leviton UPB</i> Wall Switch or Dimmer will flash the lighting load one time and blink its LED blue to indicate that it is in Setup Mode. Note: The switch will automatically exit Setup mode after 5 minutes. To manually exit Setup mode, tap the switch quickly 2 times.

To configure the *Leviton UPB* 6-Button Room Controller, put the device in Setup mode as follows:

Step	Operation
1	Press and hold the “ON” and “OFF” pushbuttons simultaneously for at least 3 seconds.
2	All of the LED indicators will blink to indicate that the <i>Leviton UPB</i> 6-Button Room Controller is in Setup Mode. Note: The <i>Leviton</i> 6-Button Room Controller will automatically exit Setup mode after 5 minutes. To manually exit Setup mode, press and hold the “ON” and “OFF” pushbuttons simultaneously for at least 3 seconds.

To configure the *Leviton UPB* 8-Button House Controller, put the device in Setup mode as follows:

Step	Operation
1	Press and hold the “1” and “8” pushbuttons simultaneously for at least 3 seconds.
2	All of the LED indicators will blink to indicate that the <i>Leviton UPB</i> 8-Button House Controller is in Setup Mode. Note: The <i>Leviton</i> 8-Button House Controller will automatically exit Setup mode after 5 minutes. To manually exit Setup mode, press and hold the “1” and “8” pushbuttons simultaneously for at least 3 seconds.

Note: When *Omni Pro II* finishes configuring the device, it will automatically exit Setup mode and return to normal operation.

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          ↓
```

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 *Omni Pro II* 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	DEAD - DEAD PHONE LINE

The second part shows how the *Omni Pro II* 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      ↓
```

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

```
BAT: 225  PHONE: 140
ACON: 82  BELL: 215    ↓
FUSE: 222              ↓
```

The next series of displays shows the current analog reading for each security zone input. The displays show the readings for zones 1-176.

```
1=147 2=148 3=147
4=146 5=146 6=147      ↓
```

THROUGH

```
175=148 176=147
                        ↑
```

Normal readings for zones are between 137 and 157 when secure. If Zones 1-4 are configured as Fire or Gas zone, normal readings are between 26 and 43 when 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 is open, likewise if a tamper is detected.

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, PESM, 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      ↓
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.

6= ENERGY (ENERGY COST)

The Energy Cost Status menu allows you to view the current energy rate in use.

```
ENERGY COST: MID
```

The Energy Cost will display Lo, Mid, Hi or Crit (for critical) energy rates.

Event Log

The Event Log records the 250 most recent mandatory security system events and conditions in the system. When a new mandatory event occurs, the oldest mandatory event is lost.

The event log also records the 250 most recent non-mandatory events, such as zone identification for intruder and hold-up zones and user logged messages. These events are stored separately for the mandatory events. When a new non-mandatory event occurs, the oldest non-mandatory event is lost.

The following Events, along with the time and date of their occurrence, and security area (if applicable) are recorded in the Event Log when they occur:

- All Security system arming and disarming events (Off, Day, Night, Away, and Vacation), and user name.
- Any force arming of the security system (override prevention of setting).
- Any zone automatically bypassed by the system.
- All zones bypassed or restored by the user, and user name.
- Any zone shutdown by the system (Swinger Shutdown).
- Any zone tripped while the security system is armed.
- Any 24-hour zone tripped (Panic, Emergency Keys, etc.).
- Any alarm condition (intrusion or hold-up), including confirmed alarms.
- Any alarm reset (reinstatement).
- Any trouble condition (zone, battery, fuse, AC power, phone, siren).
- The restoration of any trouble condition (the trouble condition ceased to occur).
- Any tamper condition or alarm.
- Any Remote Access and Remote Access Denied.
- Any tamper condition with expansion enclosure(s) if an interconnection fault occurs.
- Any additions or deletions of a Level 2 user by a Level 3 user.
- Any troubles or failures to report a reportable condition to a central station.
- Any user logged messages.

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
```

During an AC power outage, if the backup battery has been depleted to the point that the system is shutdown, as long as the backup battery remains connected, the event log will be retained for at least 30 days.

Messages

The Message menu is used to play and record the memo message and to quickly clear all text messages. The memo message is an eight-second voice message. It's like an "electronic notepad" for a family member to leave a handy message. After a message is recorded, it can automatically be played back when someone returns and disarms the security system.

The Message menu is also used to show, log, clear, and send text messages, and to say and phone (dial out) your voice messages.

To enter the Message menu, from the top-level display or from the main menu, press the 8 (MESSAGE) key on the console.

```
MESSAGE
1=PLAY 2=RECORD 3=CLEAR  ↑
8=MESSAGE                ↑
```

Record Memo Message

Note: To *Record* the memo message using this key, the *Leviton* Two-Way Audio Module (with a microphone) must be installed.

To record a new voice memo message, press the 2 (RECORD) key.

Omni Pro II will say, "Record Message". At the beep, record your eight-second message. *Omni* Pro II will beep a second time at the end of the eight seconds, which signifies the end of the record process.

After a new message is recorded, the display will show "CHECK MESSAGE".

Play Memo Message

Note: To *Play* the memo message using this key, the *Leviton* Two-Way Audio Module (with a speaker) must be installed.

To play the voice message, press the 1 (PLAY) key.

Over the speaker, *Omni* Pro II will say, "Message is" - *Omni* Pro II will then play your eight-second message.

- *Omni* Pro II will automatically play a new memo message when the security system is disarmed.
- After the message has been played, the display will no longer show "CHECK MESSAGE".

Clear Text Messages

If any text messages are currently being displayed on the console, they can be deleted by pressing the 3 (CLEAR) key.

When you press the 3 (CLEAR) key, all messages are cleared from the console display.

Message

To show, log, clear, and send text messages, and to say and phone (dial out) your voice messages, press the 8 (MESSAGE) key:

```
MESSAGE
1=SHOW 2=LOG 3=CLEAR  ↓
4=SAY 5=PHONE 6=SEND  ↑
```

Show Message

The 1 (SHOW) key allows you to display the selected text message(s) on the console's top-level display. This can be a helpful reminder of special events and occasions.

```
TRASH NIGHT
ENTER MESSAGE      ↓
```

You may enter the message number followed by the '#' key to display that message, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to display the selected message:

```
Thu Oct 04, 01 4:06 PM
TRASH NIGHT
```

When the message is displayed, the console will beep 4 times and the console LED will flash continuously. To acknowledge seeing the message, from the alerts display, press the '*' key. This will cause the LED to stop flashing, however, the message will remain on the display until it is manually cleared, or cleared by a program.

Log Message

The 2 (LOG) key allows you to store the selected text message(s) in the Event Log. This can be a helpful to keep track of the times and dates of events and occurrences.

You may enter the message number followed by the '#' key to log that message, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to log the selected message.

Clear Message

The 3 (CLEAR) key allows you to clear the selected text message, or all text messages from the console's display.

```
TRASH NIGHT
ENTER MESSAGE      0=ALL ↓
```

You may enter the message number followed by the '#' key to clear that message, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to clear the selected message, or press 0, then '#' to clear all messages.

Say Message

Note: To Say a message, the *Leviton* Two-Way Audio Module (with a speaker) must be installed.

The 4 (SAY) key allows the controller to say the selected voice message over a speaker. This voice message can be an audible reminder of special events and occasions.

You may enter the message number followed by the '#' key to say that message, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to say the selected message.

Phone Message

The 5 (PHONE) key allows the controller to call the selected phone number and say the selected voice message.

```
PHONE NUMBER:
1-8
```

Select a phone number (1-8) from the dial menu, then press '#' :

```
SECURITY OFF
ENTER MESSAGE      ↓
```

You may enter the message number followed by the '#' key, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to dial the number and say the selected voice message.

Send Message (Pro-Link)

The 6 (SEND) key allows you to send any of the text messages through the Pro-Link serial port. You are first prompted to specify the desired serial port.

SERIAL PORT:
1-6

The built-in serial ports (J1-J5) on the controller are assigned to Serial Port 1 - Serial Port 5, respectively. Serial port 6 is a Serial Interface Module connected to the Expansion port on the controller.

Next, select the message to be sent. You may enter the message number followed by the '#' key to send that message, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to send the selected message:

MSGNAME
ENTER MESSAGE: ↓

The message is sent out through the specified Pro-Link port exactly as the message was entered in *Setup | Names | Message*.

Carriage returns and line feed characters are not automatically appended to the end. To send ASCII control as part of the message, use the caret "^" character in the message. This character specifies that the next character is to be interpreted as an ASCII control character, such as "^M" to represent a carriage return.

Other useful sequences would be "^J" for a line feed character and "^G" for a bell character. To include an actual "^" character in the message, enter it twice as in "^^".

Each message can be up to 15 characters long. To send a longer message, simply program two messages to be sent one after the other.

Pro-Link also has the capability to monitor the serial port for incoming text messages. When a text message is received, Pro-Link searches through all 128 messages for a matching message. If one is found, the Program Command (macro) corresponding to the matching message is activated.

When receiving an ASCII message that is over 15 characters, *Omni Pro II* only processes the last 15 characters of the message.

Pro-Link determines that a message has been received when:

- One or more characters have been received followed by 100 ms of silence
- One or more characters followed by a carriage return character are received
- One or more characters followed by a line feed character are received

It is not necessary to enter the terminating carriage return or line feed character as part of the message name.

TELEPHONE CONTROL

Telephone Interface

Your *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II*. Some phones have switches that allow you to select Pulse or Tone. Set them to Tone to work with the *Omni Pro II*.

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 *Omni Pro II* will also pick up the line and listen for a # (pound) key. If *Omni Pro II* does not hear the # key within 5 seconds, it hangs up and does not listen in again until the next time you pick up your phone. If the *Omni Pro II* hears any key other than the # key while it is listening in, it disconnects itself immediately.

If the *Omni Pro II* does hear the # key within 3 seconds of your picking up the receiver, followed by a valid code, 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 *Omni Pro II* picks up or hangs up. This is normal. To access your *Omni Pro II* 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, followed by a valid code, on the phone.

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

If the alarm system is tripped, the in-house phones will be disconnected when the *Omni Pro II* 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 *Omni Pro II*, exactly as if you were at home, except that you must enter your code (Master or Manager) to gain access to the *Omni Pro II*.

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 *Omni Pro II* 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 *Omni* Pro II 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 *Omni* Pro II 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 *Omni* Pro II is accessed using an in-house phone.

Alternate Method

The *Omni* Pro II 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 *Omni* Pro II, it will read you a menu of commands, as follows:

WELCOME TO *OMNI* PRO [AREA 1] PLEASE CHOOSE:

- 1: CONTROL
- 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 *Omni* Pro II 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 *Omni* Pro II 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 *Omni* Pro II does not tie up your phone, there is a 10 to 15 second time-out that starts after the *Omni* Pro II stops talking. If it does not hear any numbers from your phone in 10 to 15 seconds after it stops talking, the *Omni* Pro II will hang up. If you are on a remote phone and the *Omni* Pro II hangs up, you must call the *Omni* Pro II 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 *Omni* Pro II will re-read whichever menu you are in.

1 - Control

Press 1 from the MAIN MENU to get to the CONTROL menu.

If voice descriptions have been programmed, after a three-second delay, the system will begin reading from the list of units (*Omni Pro II* will say the unit number then its description). The *Omni Pro II* will read three units, then say,

“PRESS POUND TO CONTINUE.”

If the ‘ # ‘ key is pressed, *Omni Pro II* will read the next three unit numbers and descriptions (if programmed).

2 - Security

Press 2 from the MAIN MENU to get to the SECURITY menu.

From the Security menu you can arm your system (Day, Night, Away, Vacation, Day Instant, and Night Delayed), disarm you system, bypass and restore zones, and go to a different area.

When bypassing and restoring a zone, if voice descriptions have been programmed, after a three-second delay, the system will begin reading from the list of zones. If the ‘ # ‘ key is pressed, *Omni Pro II* will read the next three descriptions (if programmed).

GOTO Area

Press the # key to GOTO a different area. Omni Pro II will say:

“GOTO AREA: ENTER AREA THEN #.” “ENTER CODE, *: CANCEL”
“WELCOME TO OMNI PRO II, AREA 2.”

3 - Button

Press 3 from the MAIN MENU to get to the BUTTON menu.

If button voice descriptions have been programmed, after a three-second delay, the system will begin reading from the list of buttons (*Omni Pro II* will say the button number then its description).

User buttons 1 - 128 are available from the phone, for the current area.

4 - All

Press 4 from the MAIN MENU to get to the ALL menu.

“ALL: PLEASE CHOOSE.” 0:
ALL OFF
1: ALL ON
2: LIGHT SETTING (*Leviton* Scene)

5 - Temperature

Press 5 from the MAIN MENU to get to the TEMPERATURE menu. The *Omni Pro II* will say,

“TEMPERATURE: ENTER TEMPERATURE NUMBER, THEN POUND.”

After a three second delay, the system will begin reading from the list of Thermostats and Energy Savers (if voice descriptions have been programmed, *Omni Pro II* will say the temperature zone then its description). The *Omni Pro II* will read three temperature zones, then say,

“PRESS POUND TO CONTINUE.”

If the ‘ # ‘ key is pressed, *Omni Pro II* will read the next three temperature zones and descriptions (if programmed).

Press the temperature zone you wish to control, then press #.

Press the ' 0 ' key to select all *Leviton* Thermostats. This is a simple way to broadcast the new Heat or Cool setting or change the system mode, fan mode, or hold mode of all *Leviton* thermostats in your system.

When an *Leviton* Communicating Thermostat is entered:

“THERMOSTAT 1 - THERMOSTAT 1 - TEMPERATURE IS (TEMP).”

“PLEASE CHOOSE:

- 1: MODE
- 2: HEAT SETTING
- 3: COOL SETTING
- 4: FAN
- 5: HOLD
- #: STATUS
- *: CANCEL

- If the # (STATUS) key is selected, *Omni Pro II* will read the current status of the thermostat. For instance:

“TEMPERATURE IS (80), HEAT SETTING IS (60), COOL SETTING IS (75),
MODE IS (COOL), FAN IS (AUTO), HOLD IS (OFF).”

When a Programmable Energy Saver (PESM) is entered:

“ZONE 9 ENERGY SAVER - ENERGY SAVER IS (ON/OFF).
TEMPERATURE IS (TEMP).”

“PLEASE CHOOSE:

- 0: OFF
- 1: ON
- 2: HEAT SETTING
- 3: COOL SETTING
- 9: TIMED
- #: STATUS
- *: CANCEL

- If the # (STATUS) key is selected, *Omni Pro II* will read the current status of the PESM. For instance:

“ENERGY SAVER IS (ON/OFF); TEMPERATURE IS (80), HEAT SETTING IS (60), COOL SETTING IS (75).”

6 - Status

Press 6 from the MAIN MENU to get to the STATUS menu.

From the Status menu, *Omni Pro II* will report the Security Mode (for the current Area).

If all zones are secure and there are no troubles with the system, *Omni Pro II* reports “System OK”.

If any zones are currently not ready, in trouble, or bypassed, *Omni Pro II* will report the current status of those zones. Any system troubles are also reported.

Finally, *Omni Pro II* will report the current Outdoor Temperature (if part of the system) and the current time and date.

7 - Events

Press 7 from the MAIN MENU to get to the EVENT menu.

The *Omni Pro II* will read the 3 latest events. Press the ' 7 ' key for *Omni Pro II* to read 3 more events, or ' * ' to cancel.

8 - Message

This command allows you to record and verify the voice memo message, allows you to record and play custom messages (phrases), and allows you to record and verify your address. If an optional *Leviton* Two-Way Audio Module is being used, this command also allows paging and listening to the premises.

Press 8 from the MAIN MENU to get to the MESSAGE menu.

“MESSAGE - PLEASE CHOOSE: 1 PLAY MESSAGE, 2 RECORD MESSAGE, 3 INTERIOR, 6 PLAY PHRASE, 7 RECORD PHRASE, 8 PLAY ADDRESS, 9 RECORD ADDRESS, *: CANCEL.”

To play the current address, press the 8 key.

Playing and Recording a Message

To play the current message, press the 1 key.

“MESSAGE IS: (OMNI PRO II PLAYS MESSAGE).”

Note: When *Omni Pro II* is playing the message or the address, it does not listen for Touch-Tones.

To record the memo message, press the 2 key.

“RECORD MESSAGE - [BEEP]

At the [BEEP], record your message...

At the second [BEEP]:

“MESSAGE IS: (OMNI PRO II PLAYS MESSAGE).”

Paging and Listening

When the *Leviton* Two-Way Audio Module is being used:

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

“PLEASE CHOOSE: 2 TALK, 8 LISTEN, *: CANCEL.”

- If no key is pressed, *Omni Pro II* 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.

Playing and Recording a Custom Phrase

When you can't find a word you need to complete a voice description or voice message, you have the ability to record a custom phrase in *Omni Pro II*. This phrase can then be used as part of your voice description and spoken over the telephone along with the item number that is normally spoken. It can also be part of your voice descriptions for a message that is spoken over a speaker in your home or business.

Phrases 1-32 are unique two-second phrases. Phrases 33-48 are four-second phrases that are made up of 2 two-second phrases. Phrases 49-56 are eight-second phrases that are made up of 4 two-second phrases. Phrases 57-60 are sixteen-second phrases that are made up of 8 two-second phrases.

For a complete list of Phrases and Voice Descriptions, including a complete description of Custom Phrases - *See Appendix C Voice Description Codes and Notes on Custom Phrases* in this manual.

To play one of the custom phrases, press the 6 key.

“PLAY PHRASE: ENTER PHRASE NUMBER, THEN POUND.”

Press the phrase number (1-60) you wish to play, then press #.

“PHRASE IS: (OMNI PRO II PLAYS PHRASE).”

To record one of the custom phrases, press the 7 key.

“RECORD PHRASE: ENTER PHRASE NUMBER, THEN POUND.”

Press the phrase number (1-60) you wish to record, then press #.

“RECORD PHRASE - [BEEP]”

At the [BEEP], record your custom phrase...

At the second [BEEP]:

“PHRASE IS: (OMNI PRO II PLAYS PHRASE).”

Playing and Recording the Address

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: (OMNI PRO II PLAYS ADDRESS).”

Note: The address is used only for the VOICE dial out feature.

9 - Good-Bye

Press 9 from the MAIN MENU.

The *Omni Pro II* 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 *Omni Pro II* hangs up. It is recommended that you press 9 to terminate a remote call. If you don't, the *Omni Pro II* will hang up anyway after about 15 seconds.

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 *Omni Pro II* 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 *Omni Pro II* dials out.

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 because the central station is always staffed with trained professionals and there is virtually no chance for misinterpretation.

The digital communicator will not dial out until the Dial Out Delay has expired. By default, there is a communicator delay of 30 seconds. The delay can be removed or increased up to 45 seconds. Please consult your installer about the Dial Out Delay.

When enabled, 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 the Leviton 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

The voice dial-out feature of the *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II* Voice Dialer Does

When an alarm is activated, the *Omni Pro II* 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 for a voice to answer the call. 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 *Omni Pro II* stops dialing and reconnects the in-house phones.

What You Hear - If Your *Omni Pro II* Calls You

When you pick up the phone and say something, the *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II* will stop talking when it hears *any digit* from a touch tone phone. (When it is saying the address, the *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II*, it will hang up on you to communicate the event to the central station.

PC Access

Omni Pro II 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 *Omni Pro II* has a built-in modem and can be accessed over the telephone or over a direct serial connection (RS-232/RS-485 through either a built-in or optional serial interface module). If you wish to use your PC to configure, program, and check the status of your *Omni Pro II*, contact your dealer for the appropriate software for your PC.

Built-In Ethernet Port

The built-in Ethernet port (J6) allows a device to connect to the *Omni Pro II* controller via a network (i.e. Ethernet, Internet) using a secure, encrypted communication link. The Ethernet port transports *Leviton* application-level packets containing Omni-Link serial protocol messages over IP.

Controller IP Address, Port Number, and Encryption Key

The controller's local IP address and port number set the local network parameters for the *Omni Pro II* controller. The encryption key is used to establish a private, secure connection with the connected device.

These Setup items can only be assigned and changed from an *Leviton* console. These items cannot be assigned or changed via PC Access; although the IP address and port number may be viewed via PC Access - **See *Set Up Miscellaneous***.

Omni Pro II Ethernet Connections

Use a standard network cable to connect the controller to a hub, switch, or router. Use a network crossover cable when connecting the controller directly to the NIC card on a computer.

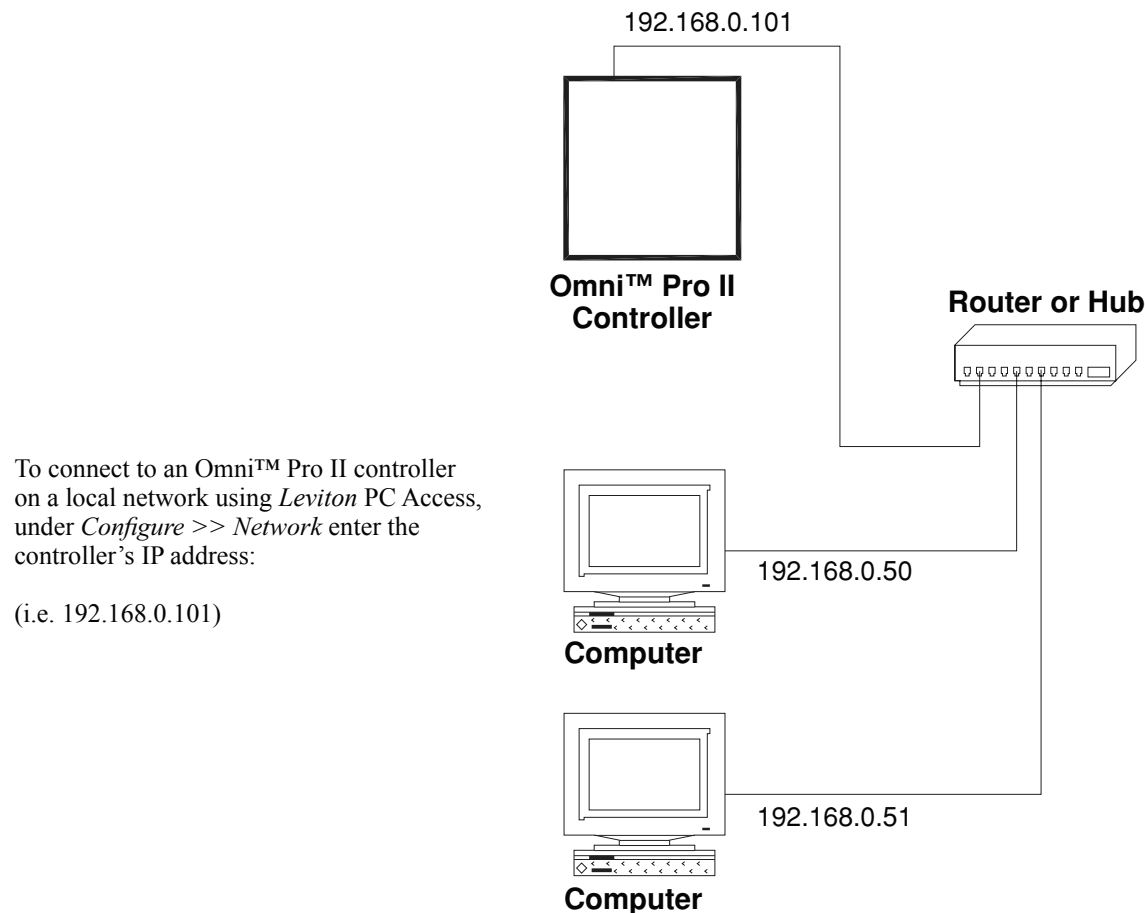
When connected to a switch or router, port forwarding must be configured. Port forwarding sets up public services on your network. The *Omni Pro II* controller listens for all IP/UDP communications addressed to it on the specified UDP port number. The router will forward all communications on the specified port to the *Omni Pro II* controller.

Connecting to Network via PC Access

To access the controller over the network via PC Access:

1. Open an *Omni Pro II* account file.
2. Click *Configure >> Network*.
 - If you are connecting from the local network, enter the controller's IP address under "Network IP Address or Domain Name".
 - If you are connecting from the Internet, enter either the public IP address (the way to reach your local network via the Internet) or domain name (e.g. www.homeauto.com).
3. Enter the port number that is configured for the controller.
4. Select the *Encryption* tab. Enter the two part encryption key as it is displayed on the console.
5. Select *OK*.
6. Click *Connect >> Network >> Connect*.
7. Enter a valid code.

PC Access should change from "*Off-Line*" to "*On-Line*".



To connect to an Omni™ Pro II controller on a local network using *Leviton PC Access*, under *Configure >> Network* enter the controller's IP address:

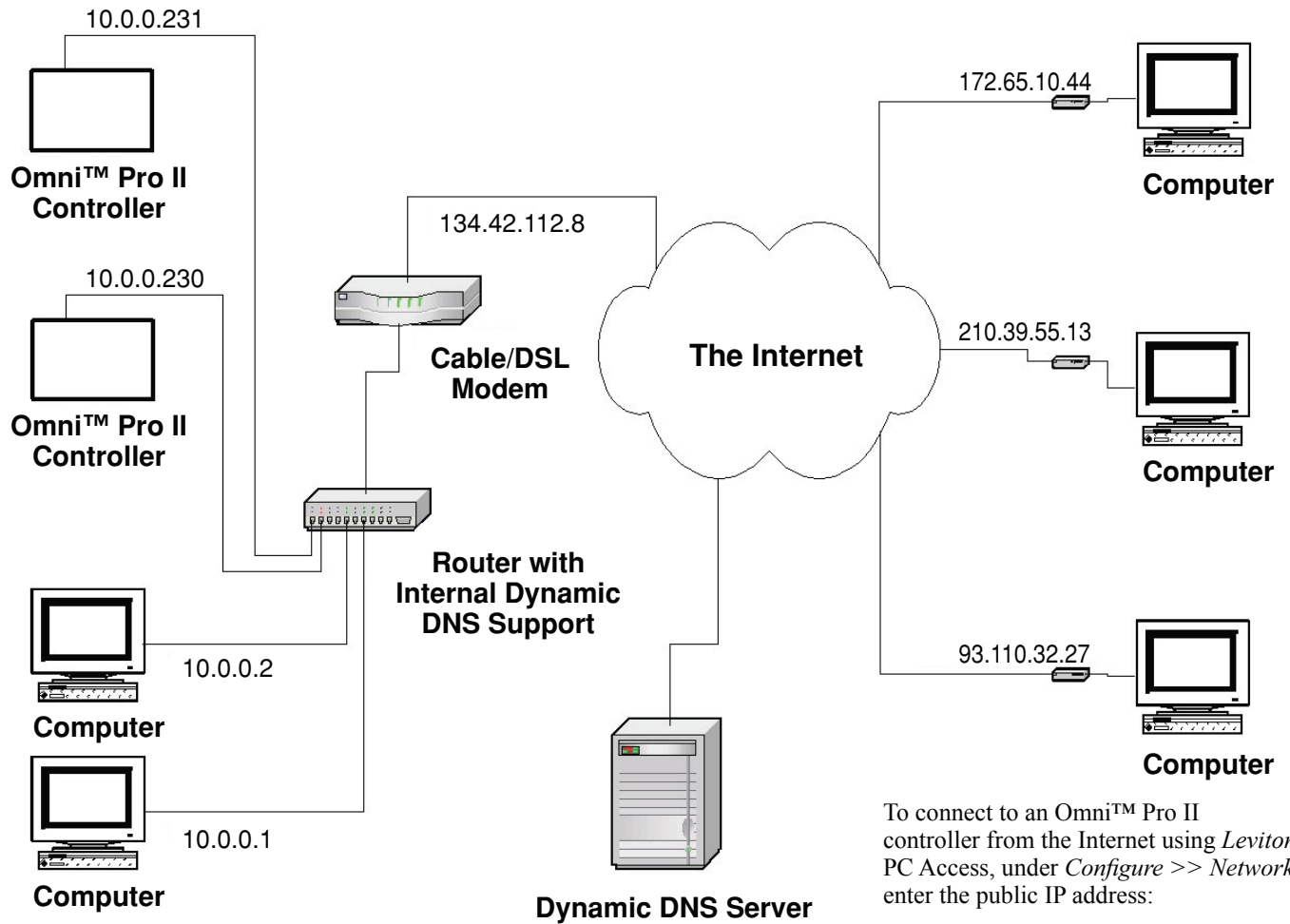
(i.e. 192.168.0.101)

Local Network

Dynamic DNS

If the controller is connected to the Internet via a dynamic IP address, to locate and communicate with the controller from remote locations over the Internet using *Leviton PC Access*, you must subscribe to a Dynamic DNS (Domain Name Service). Dynamic DNS is a service that maps your dynamic (changing) IP address to a static (permanent) hostname, allowing you to access your *Omni Pro II* controller over the Internet using your static hostname instead of an IP address.

A “client” program (typically provided by the Dynamic DNS provider) runs on a PC on your local network and is used to automatically update your Dynamic DNS provider with your current IP address. Several router/switch manufacturers have embedded a Dynamic DNS client into their router firmware. These devices work with several of the Dynamic DNS providers, including both free and commercial services. These devices are especially beneficial because the router can be powered up all the time, so the dynamic update is always current and is handled by a single device (the router/switch) in the local network. This allows you to locate and connect to the *Omni Pro II* controller without having a computer on the local network powered up and running.



To connect to an Omni™ Pro II controller on a local network using *Leviton PC Access*, under *Configure >> Network* enter the controller's IP address:

(i.e. 10.0.0.230)

To connect to an Omni™ Pro II controller from the Internet using *Leviton PC Access*, under *Configure >> Network* enter the public IP address:

(i.e. 134.42.112.8)

Local / Wide Area Network

SETUP

Configuration and Advanced Control Programming (ACP)

The Setup menu is used to configure operating parameters, program your system to do its automated control and security functions using ACP, and give text and voice descriptions to all of your zones, units, buttons, codes, temperatures, and messages. 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 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

Omni Pro II has 99 Level 2 user codes that may be assigned to users of the system. All *Omni Pro II* security codes are 4 digits in length (0000 to 9999), 10,000 possible combinations, and each code must be unique. The controller will not allow the duplication of any user code.

User Code 1 is always set to a Master code. All other user should be assigned a security code with an authority level, areas that can be accessed (if area arming is being used), and times in which the code is valid.

To set up a code, from the Setup menu, press the 1 (CODES) key. Use the console keypad to select the code group and arrow keys to scroll through the available code slots in that group.

If there isn't a code configured for the selected code slot, the bottom line of the display will indicate that you can enter a code from 0000 to 9999. To add a code, enter a four-digit number, and then press the ' #' key.

```
CODE 2:
0000-9999
```

Remember the code number. It will not be redisplayed. If a code is added by a user with a Level 3 code, the event log will log that a code has been enabled in the respective code slot.

When entering a new code, if the code that you enter already exists, the console will beep three times and display: "*** INVALID CODE ***". Enter a different code.

After adding a code to a code slot and when you scroll to a code slot where a code has been configured, the bottom line of the display will indicate that a code is enabled in that slot and gives you an option to disable the code.

```
CODE 2:
ENABLED      #=DISABLED
```

The existing code number is not shown on the display. To disable the code, press the ' #' key. When a code is disabled by a user with a Level 3 code, the event log will log that a code has been disabled in the respective code slot.

After disabling the code, you may enter a new code by entering a four-digit number, and then pressing the ' #' key.

Authority Level

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

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

1 = Master

Master codes have complete access to the entire system, with the exception of configuration items that only the installer can set.

2 = Manager

Manager codes can arm and disarm areas that they have access to, 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 arm and disarm the system in assigned areas, during assigned times. Telephone access is not a privilege.

Access Areas

After an authority level has been entered, you will be prompted for access areas for the user. Specify which area(s) (if part of your system) the user has access to by pressing the number for each area.

The display will show all areas that have been enabled for that user. After the area(s) is/are selected, press the ‘ # ‘ key.

```
CODE 2 AREAS:
1 2          0=CLR ↓
```

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

```
CODE 2 ON TIME:
8:00 AM MTWTF--    #=CHNG ↓

CODE 2 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 2 (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
```

Set Up Time

To set up time and date, from the Setup menu, press the 2 (TIME) key.

TIME :
HHMM ↑=AM ↓=PM

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.

Next, you are then prompted with a question that asks if Daylight Savings Time is currently being observed:

DAYLIGHT SAVINGS TIME?
0=NO 1=YES

If Daylight Savings Time is currently being observed (between spring and fall), set this item to “Yes”. If Daylight Savings Time is not currently being observed (between fall and spring) or is not observed in your geographic location, set this item to “No”. This item is used to correctly calculate the times for sunrise and sunset.

You are only asked this question when you set the time. Once the time is set, *Omni Pro II* will automatically adjust the “time of day” each time daylight savings time begins and ends.

Finally, you are prompted to enter the current date:

ENTER DATE :
MMDDYY

Enter the current date. If the current date is February 23, 2015, enter it as “0 2 2 3 1 5”.

Advanced Control Programming (ACP)

Your *Omni Pro II* can be programmed to do automated control and security functions on a time schedule or in response to an event occurring in the system. You may program the following items:

- Unit Numbers: On, Off, On for time, Off for time, Dim, Brighten, Dim for time, Brighten for time, Level, and Scene
- Settings for *Leviton* Communicating Thermostats
- PESM control: On, Off, On for time, Off for time, and Heat and Cool setback temperatures
- Temperatures: Low and High temperatures
- All lights On, All Off
- Security modes Off, Day, Night, Away, Vacation, Day(Instant), and Night(Delay) and bypass and restore zones
- Buttons (Events)
- Messages: Show, Log, Clear, Say, Phone, and Send

The *Omni Pro II* 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 (Button Programs)

You can also specify 2 conditions in each program, so that they only run under certain circumstances.

Every line of programming in the *Omni Pro II* controller consists of three pieces. Each line **must** have at least an event (when) and a result (command). The “&IF” statement (condition) is optional in all programming lines.

The program may specify up to 2 conditions that must be true for the program to execute. When programming from the console, only 1 condition can be selected. If 2 conditions must be specified for a single program line, it must be entered using the PC Access Software.

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(s) 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 again to save the program, or 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 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
```

When 2 conditions are part of a single program, the conditions are not displayed on the console. Instead, “&MULTI” is displayed to let you know that this program line contains 2 conditions. To view or edit the program, you must use the PC Access Software.

```
WHEN ZONE 1 NR: &MULTI
FOYER LIGHT ON
```

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 specify each part of an automation program.

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

- Selecting **1 (WHEN)** allows the time or event that activated the program to be specified.
- 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 and Event Programs

Selecting 2 (BUTTON), from the “Edit When” menu, sets up a program to be activated when a macro button is executed or an 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.

To program specific event buttons (i.e. Front Door Opens, Security Armed Away, Porch Light Turns On, etc.), press the ‘ # ‘ key to 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 8=MSG 9=SWITCH ↑

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

Control Unit / Switch Press Event Buttons

This Event Button is activated upon the following:

- When the specified Unit is turned on or off
- When the top-rocker or bottom-rocker is pressed on a *UPB*, *RadioRA*, or ALC switch
- When a button is pressed on a *UPB* 6-Button or 8-Button Keypad
- When a button is pressed on a *RadioRA* Master Control
- When a button is pressed on a ALC 4-Button Scene Switch Module
- When a button is pressed on a Centralite StarLite Keypad

Press the 1 (CTRL) key to select the “When Command” for a control unit event.

UNIT:
ENTER UNIT



The unit may be selected by entering the unit number followed by the ‘ # ‘ key or by using the arrow keys to scroll through a list of unit names. Select the desired unit. Next, you are prompted to specify the event that activates the program:

WHEN Porch Light:
0=OFF 1=ON 2=SWITCH

Press the 0 (OFF) key to select when the unit turns off or press the 1 (ON) key to select when the unit turns on (this program is executed whenever the unit is turned off or on).

Press the 2 (SWITCH) key to select only when the top-rocker or bottom-rocker is pressed at a *UPB*, *RadioRA*, or ALC Switch (locally at the Switch) or when a button is pressed on a keypad.

SWITCH:
0=OFF 1=ON 2-11=SW1-SW10

Press “0” to select only when the bottom-rocker (off) is pressed on the Switch. Press “1” to select only when the top-rocker (on) is pressed on the Switch. Press “2-9” (see the Corresponding Switch Table) to select when that button is pressed on a keypad.

Press the ‘ # ‘ key to enter your selection.

Corresponding Switch Table

Switch	<i>Omni Pro II</i>	UPB 6-Button Keypad	UPB 8-Button Keypad	RadioRA Master Control	ALC 4-Button	StarLite Keypad
1	2	On Button	1 or E	1	1	1
2	3	Off Button	2 or F	2	2	2
3	4	A	3 or G	3	3	3
4	5	B	4 or H	4	4	
5	6	C	5 or I	5		
6	7	D	6 or J	6		
7	8		7 or K	7		
8	9		8 or L	8		
9	10			9		
10	11			10		

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 event button. For example, you would like to activate an event button when you arm the system into the 3 (AWAY) mode:

WHEN AWAY:
1=DELAY 2=CODE 3=AREA

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, event 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 3=AREA
```

- Selecting 3 (AREA) allows you to specify that the event button is activated only when the specified area is armed or disarmed. You will be prompted to enter the area:

```
AREA:  
ENTER AREA 0=ALL ↓
```

The area number should be entered followed by the ‘ # ‘ key, or the arrow keys may be used to scroll through a list of areas.

```
WHEN C1 A1 AWAY:  
1=DELAY 2=CODE 3=AREA
```

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 ↓
```

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 an event button activated by issuing an All On or an All Off command, issuing a *Leviton* Scene command, or issuing a *UPB* Link command. You are first prompted to specify whether the event button is for All Lights On, All Off, *Leviton* Scene, or *UPB* Link:

```
ALL
0=OFF 1=ON 2=SCN 3=LINK ↓
```

If area arming is being used, you will be prompted to specify the desired area:

```
AREA:
ENTER AREA 0=ALL ↓
```

If *Leviton* Scene is selected, you must first specify the scene number:

```
ENTER SCENE:
1-256
```

Then select the specified command Off, On, or Set.

If *UPB* Link is selected, you must first specify the link number:

```
ENTER LINK:
1-250
```

Then select the specified command Off, On, or Set.

UPB Link Event Buttons

When a program is created that uses “When Link On” as the trigger, the program will execute when a “Link Activate”, “Link Goto” (as long as the result of the Goto command is not “0”), or “Link Fade Start” (as long as the result to the Fade command is not “0”) message is received.

When a program is created that uses “When Link Off” as the trigger, the program will execute when a “Link Deactivate” or “Link Goto” (where the result of the Goto command is “0”) message is received.

Using *Leviton* PC Access Software, you can create a program that uses “When Link Fade Stop” as the trigger. When this trigger is used, the program will execute when the “Link Fade Stop” message is received.

Alarm Event Buttons

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

```
SELECT ALARM TYPE
ANY TYPE ↓
```

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. You are then prompted to specify the area, if area arming is being used:

```
AREA:
ENTER AREA      0=ALL ↓
```

The area number should be entered followed by the ‘ # ’ key, or the arrow keys may be used to scroll through a list of areas.

X-10 Event Buttons

Pressing the 6 (X-10) key allows you to specify an event button activation upon receipt of an X-10 command from a source external to *Omni Pro II*. The *Omni Pro II* can also respond to scene changes initiated at Compose keypads and dimmers. When a scene change is initiated, *Omni Pro II* can activate an event button program. You are first prompted to enter the X-10 house code:

```
X-10 HOUSE CODE:
1-16=A-P
```

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:

```
WHEN X-10 A1:
0=OFF 1=ON 2=SCENE
```

After specifying the X-10 House Code and X-10 Unit Code, select 0 for Off, 1 for On, or 2 for Scene.

“Off” events will be activated whenever the selected device is turned off. “On” events will be activated whenever the selected device is turned on. “Scene” events will be activated whenever the selected device is set to the specified scene. “On” events will also be activated whenever the selected device is set to a scene other than off.

Miscellaneous Event Buttons

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

```
SELECT BUTTON:
WHEN PHONE DEAD ↓
```

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

- WHEN ENERGY LO
- WHEN ENERGY MID
- WHEN ENERGY HI
- WHEN ENERGY CRIT
- 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
- WHEN CAMERA (1-6) *

*When a camera input (1-6) is pressed on an OmniTouch with Video.

Message Event Buttons (Pro-Link)

Pressing the 8 (MSG) key allows you to select an event button from a list of the 64 text messages. You are first prompted to select the message:

MESSAGE:
ENTER MESSAGE ↓

The message may be entered by entering the message number followed by the ‘ # ’ key or by using the arrow keys to scroll through the list of messages.

Pro-Link also has the capability to monitor the serial port for incoming text messages. When a text message is received, Pro-Link searches through all 128 text messages for a matching message. If one is found, the *When Message Received* event button corresponding to the matching message is activated.

Pro-Link determines that a message has been received when:

- One or more characters have been received followed by 100 ms of silence
- One or more characters followed by a carriage return character are received
- One or more characters followed by a line feed character are received

It is not necessary to enter the terminating carriage return or line feed character as part of the message name.

Switch Press Event Buttons (CentraLite)

When a button is pressed on a CentraLite keypad, the “When Switch” program is activated.

Pressing the 9 (SWITCH) key allows you to select the “When Command” for a switch pressed activated event.

You are first prompted to enter the switch number:

SWITCH NUMBER:
1-127 ↓

Enter the switch number followed by the ‘ # ’ key.

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     6=ENERGY
8=MESSAGE                                     ↑
```

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*.

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

If the selected unit is part of a House Code that is configured to use the Compose Format, the second page of the menu is modified to allow Scene commands. Consequentially, the Level and Ramp Commands are removed from the menu.

```
Entry Lights (Unit Name)
4=SCN 9=TIM #=STA ↑
```

If the selected unit 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
```

If the selected unit is *UPB*, press 6 (LED) to control an LED on a *UPB* Keypad.

On the 6-Button Keypad: LED 1 is behind the “On” button, LED 2 is behind the “Off” button, and LED 3-6 is behind the A-D buttons, respectively. On the 8-button Keypad: LED 1-8 is behind the 1-8 buttons, respectively. For example:

```
WHEN U1 SW 3:
UNIT 1 LED 3 ON
```

This program illuminates the “A” button (on a 6-Button Keypad) when the “A” button on that keypad controller is pressed. This program can also be used to illuminate the “3” button (on an 8-Button Keypad) when the “3” button is pressed.

If the selected unit is *UPB*, the # (STA) key is used to request the status form the specified *UPB* device.

```
WHEN LINK 1 ON:
Porch Light STATUS
```

When “Link 1 On” is received on the *UPB* network, *Omni Pro II* sends a status request message to the *UPB* Wall Switch (named Porch Light) to acquire its current status.

This “Status Request” program is particularly beneficial to keep the current state of *UPB* devices that are altered by a “lighting scene” (Link On or Link Off) command. When the Link On or Link Off command is transmitted by a 6-Button or 8-Button Keypad Controller, each device that has that Link pre-configured will respond to its preset levels. At this point, *Omni Pro II* no longer knows the exact state of the units that responded to the specified Link command until the switch is pressed locally, the controller sends a command message to the device, or a Status Request message is issued to the device.

Unit Toggle Command

Using *Leviton* PC Access Software, you can create programs to toggle any unit (1-511) from its current state to the opposite state. When the program is executed, the unit will toggle to Off if the unit is currently in a non-off state (On, On for time, Level 1-100, Scene A-L, Dimmed Steps, Dimmed for time, Brightened Steps, or Brightened for time). When the program is executed, the unit will toggle to On if the unit is currently Off.

Note: If a unit is currently timed (On for time, Dimmed for time, Brightened for time, or Off for time), when the toggle program is executed, the unit will toggle to the opposite state and will defeat the timer.

This programming feature will simplify programming when using a button on a *UPB*, Compose, ALC, or *RadioRA* keypad to toggle a light on and off with the push of a single button. For example:

WHEN FRONT FOYER SW1 PRESSED: FRONT FOYER TOGGLE

UPB Blink Command

Using *Leviton* PC Access Software, you can create programs to blink any *UPB* device. If you are using HLC, you can not blink an HLC room (i.e. the 1st or 9th unit in an HLC house code); you can however blink all of the devices within the HLC room, individually.

When setting up the blink program, you will be asked to select one of four blink rates (0.25sec, 0.5sec, 1sec, or 2sec). When the program is executed, the unit will begin blinking either indefinitely or for a specified period of time. If timed, the unit will return to its previous state once the timer has expired.

Note: If a unit is currently timed (On for time, Dimmed for time, Brightened for time, or Off for time), when the blink program is executed, the unit will begin blinking and the previous timer is disabled.

This programming feature will simplify programming when attempting to have a unit blink for a certain event such as an alarm. For example:

WHEN ANY ALARM: HALLWAY LIGHT BLINK (1.00SEC) FOR 5 MINUTES

Timed Level Command

Using *Leviton* PC Access Software, you can create programs to set the light level for a specified time. For example, when the Front Door opens and it is dark outside, you can have the Foyer Light illuminate at 50% for 5 minutes with a single program line.

WHEN FRONT DOOR NOT READY & IF DARK: FOYER LIGHT TO 50% FOR 5 MINUTES

At the end of the timer duration, the light will return to its previous state. For example if the light level of the Foyer Light was at 25% prior to the Front Door opening, the light level will return to 25% five minutes after the door opens.

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. If area arming is being used, the display will then prompt you for the area to be armed:

```
AREA
ENTER AREA      0=ALL ↓
```

Enter the area number followed by the ‘ # ‘ key, or use the arrow keys to scroll through a list of areas.

Press the ‘ # ‘ key first to specify all areas.

When a program is executed to arm the security area:

- The console will beep once
- The controller will cycle power to reset smoke detectors
- The bottom line will display, “ *** ARMING SYSTEM *** “ to indicate that the system is being armed.
- During the last 10 second of the arming process, the console will beep twice as fast.
- The system will be fully armed at the completion of the Exit Delay.

If any zones in the security area are not secure at the completion of the Exit Delay, the zone(s) will be automatically bypassed and logged into the event log.

Program Button Commands

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

BUTTON:
ENTER BUTTON #=MENU ↓

Program All On / All Off Commands

Select the 4 (ALL) key to program All Lights On and All Units Off commands. It is also used to program *Leviton* Scenes, *UPB* Link, *RadioRA* Phantom Button, or *CentraLite* Scene.

ALL
0=OFF 1=ON 2=SCN 3=LINK ↓

ALL
4=PHANTOM 5=CENLIT ↑

If area arming is being used, the display will then prompt you for the area to control. Enter the area number followed by the ‘ # ‘ key, or use the arrow keys to scroll through a list of areas. Press the ‘ # ‘ key first to specify all areas.

Program Video Commands

Using *Leviton* PC Access Software, you can create programs to display a camera automatically on an OmniTouch with Video touchscreen when an event occurs.

You can specify which camera and which touchscreen(s) will display the video when the event takes place. When the event takes place, it switches each of the specified touchscreens to full screen video.

Program Temperature Commands

Select the 5 (TEMP) key to control *Leviton* Communicating Thermostats, energy saver modules, and temperature sensors. Specify the desired command - *See Temperature*.

TEMPERATURE:
ENTER TEMP ZONE 0=ALL ↓

Raise or Lower Temperature Command

Using *Leviton* PC Access Software, you can create programs to raise or lower temperatures by a specified number of degrees (between 1-45 degrees Fahrenheit or 0.5 – 25.0 degrees Celsius). When using this command, specify either raise or lower the heat or cool temperature setpoint and number of degrees.

This feature will allow you to raise or lower the temperature from its current (comfortable) setting when you change the security mode (e.g. you leave the house) and have it return to that temperature when you return home.

```
WHEN AWAY: DOWNSTAIRS RAISE COOL SETPOINT 5
WHEN OFF: DOWNSTAIRS LOWER COOL SETPOINT 5
```

Program Energy Cost

Select the 6 (ENERGY) key to command the energy cost rate. Specify the desired energy cost rate:

```
ENERGY COST:
0=LO 1=MID 2=HI 3=CRIT
```

Program Message Commands

Select the 8 (MESSAGE) key to show, log, clear, say, phone, or send a message. Specify the desired command - *See Message*.

```
MESSAGE
1=SHOW 2=LOG 3=CLEAR ↓
4=SAY 5=PHONE 6=SEND ↑
```

The 1 (SHOW) key allows you to display the selected text message(s) on the console's top-level display. This can be a helpful reminder of special events and occasions.

The 2 (LOG) key allows you to store the selected text message(s) in the Event Log. This can be a helpful to keep track of the times and dates of events and occurrences.

The 3 (CLEAR) key allows you to clear the selected text message, or all text messages from the console's display.

The 4 (SAY) key allows the controller to say the selected voice message over a speaker. This voice message can be an audible reminder of special events and occasions (i.e. "Front Door Open" when the front door is opened).

The 5 (PHONE) key allows the controller to call the selected phone number and say the selected voice message.

The 6 (SEND) key allows you to send any a text messages through the Pro-Link serial port.

Display Message without Beeping / Without Beeping or Flashing the LED

Using *Leviton* PC Access Software, when creating programs to display a message on a console or touchscreen, you can specify if the message will be displayed "With Beep" (the console will beep 5 times), "No Beep" (the console will not beep, but the LED will flash), or "No Beep or LED" (the message will be displayed on the console but the console will not beep or flash the LED).

When a message is displayed and "No Beep" is selected, the LED on the console will continue to flash until you acknowledge it from the alerts display by pressing the "*" key.

When a message is displayed and "No Beep or LED" is selected, the message will simply be displayed on the status line of the console or touchscreen; no audible or visual indication is given.

```
SUNSET M--T---: SHOW TRASH NIGHT NO BEEP OR LED
```

Beep Command

Using *Leviton* PC Access Software, you can create programs to beep a console (or touchscreen) or all consoles (or touchscreens).

You can program the console(s) to beep once per second indefinitely, to turn off a previous “beeper on” command, or a single beep 1-5 times.

WHEN POOL DOOR NOT READY: ALL CONSOLES BEEP 5

Enable or Disable Beeper Programmatically

Using *Leviton* PC Access Software, you can create programs to either enable or disable the console or touchscreen beeper; individually or all devices. When the beeper is disabled, no audible beeps are emitted from the device, except for alarm conditions. All other beeps (i.e. entry and perimeter chimes, audible exit delay, entry pre-alarm, error beeps, confirmation beeps, trouble beeps, etc.) will not be emitted from the respective console or touchscreen.

This may be used to disable the beeper in a bedroom at night.

WHEN NIGHT: CONSOLE 5 DISABLE BEEPS
WHEN OFF: CONSOLE 5 ENABLE BEEPS

Edit Program Condition

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

Note: Two (2) conditions can be specified in each program line; however, when programming from the console, only 1 condition can be selected. If 2 conditions must be specified for a single program line, it must be entered using the PC Access Software. When 2 conditions are part of a single program, the conditions are not displayed on the console. Instead, “&MULTI” is displayed to let you know that this program line contains 2 conditions. To view or edit the program, you must use the PC Access Software.

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      ↓
```

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

If area arming is being used, the display will then prompt you to specify the area.

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:

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 ENERGY LO
- IF ENERGY MID
- IF ENERGY HI
- IF ENERGY CRIT
- 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 *Omni Pro II*. 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 *Omni Pro II* will allow local and remote telephone access as described in Telephone Control. If set to Off, the *Omni Pro II* 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 *Omni Pro II* dials out.

If you do not have your *Omni Pro II* 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 Call*, 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 *Omni Pro II* 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 setting is Yes.

Rings Before Answer

Your phone must ring this number of times before the *Omni Pro II* 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 setting is 8.

Dial Type

The *Dial Type* specifies the type of dialing used when the *Omni Pro II* 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 *Omni Pro II* 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.

To prevent a call waiting line from interfering with the dial out, you may use the call waiting cancel sequence at the beginning of the number. The call waiting sequence is typically ‘ * 7 0 T ‘ (T = pause); however this may vary depending on your region.

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 *Omni Pro II* 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

The 5 (ARM) configuration menu can only be accessed by the installer with a Level 3 access code, when a user with a Level 2 code enables access to the installer with a Level 3 code - **See Enable Installer**.

Set up Miscellaneous

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

Model and Version

The first item in this configuration menu displays the model and software version of the controller.

Enable Installer

The *Enable Installer* option allows users with a Level 2 code to enable access for users with a Level 3 and Level 4 code. When set to Yes, users with a Level 3 code will have access to configure the system, and have the ability to grant access to users with a Level 4 code. Users with a Level 2 code may revoke access to users with a Level 3 and Level 4 code at any time by setting the *Enable Installer* option to No.

The default for *Enable Installer* is No.

Enable F/W Update (Installer)

The Enable F/W Update option allows users with a Level 2 code to enable firmware updates for users with a Level 4 code if a user with a Level 3 code has also enabled firmware updates. When set to "Yes" and a Level 3 user has also enabled firmware updates, users with a Level 4 code will have access to update the firmware in the controller. Users with a Level 2 or Level 3 code may revoke firmware update access to users with a Level 4 code at any time by setting the Enable F/W Update option to "No".

ENABLE F/W UPDATE:	0
0=NO 1=YES	↑

Factory default is No. After a firmware update, this option automatically gets reset to No.

Controller IP Address

The controller's local network IP address is used to identify the *Omni Pro II* controller on the network. To view and assign the controller's local network IP address, from the Set Up menu, press the 6 (MISC) key. Using the down arrow key (↓), scroll to the following menu item:

```
IP ADDRESS
192.168.0.101      ↓
```

The format of the IP address is a 32-bit numeric address written as four numbers separated by periods. An IP address has two components, the network address, and the host address. The first two numbers (e.g. 192.168) represent the Class B network address and must be the same as the first two numbers of your local network. The second two numbers (e.g. 0.101) identify a particular host on the local network and may be assigned at random as long as each device on the local network has a unique address. Each number can be 0 to 255. Enter the 1, 2, or 3 digit number followed by the “#” key to move to the next number. After the 4th number has been entered, press the “#” key to store the IP address.

Controller Port Number

The controller's local network port number identifies the logical channel to the *Omni Pro II* controller. For example, port 80 is used for HTTP traffic; the controller's local network port number is used for Omni-Link traffic. To view and assign the controller's local network port number, from the previous Setup item (IP ADDRESS), press the down arrow key (↓).

```
PORT NUMBER      4369
0-65535          ↓
```

In most installations, the default port number can remain the same. Port numbers range from 0 to 65535. To change the port number, enter the new port number followed by the “#” key to store the port number. Port numbers 0 to 1024 are reserved for designated services and should not be used.

Encryption Key

Encryption and decryption of data between the *Omni Pro II* controller and the connected device is based on the Advanced Encryption Standard (AES) using a 128-bit cryptographic key. A unique encryption key is randomly assigned to each *Omni Pro II* controller at the factory (no records of these keys are kept at the factory). It may be left the same (recommended) or it may be changed as desired. To view and assign the encryption key, from the previous Setup item (PORT NUMBER), press the down arrow key (↓).

```
ENCRYPTION KEY PT 1:
6F-1B-26-A2-FF-D9-E4-12 ↓
```

This key consists of 16 bytes (that is 16 2-digit values from 0-9 and/or the letters A-F). It is entered into the controller in two parts (PT 1 and PT 2) consisting of 8 bytes each. Enter the 2 digit value. To enter the digits A-F, first press the “OFF” key, then press the 0-5 key respectively (i.e. A1 = OFF 0 1 and CB = OFF 2 OFF 1). After the last digit (16th digit) has been entered, press the “#” key to store “PT 1” of the encryption key. Press the down arrow key (↓) to enter “PT 2” of the encryption key.

```
ENCRYPTION KEY PT 2:
DC-67-48-8F-D1-3A-EF-70 ↑
```

After the last digit (16th digit) has been entered, press the “#” key to store “PT 2” of the encryption key.

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, you must enter your latitude, location north or south of the equator, longitude, location east or west of the Prime Meridian, and time zone.

These items should be set to the proper values for the location where the *Omni* Pro II 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 *Omni* Pro II location and Greenwich Mean Time. The following values should be used for the standard time zones in North America:

<u>ZONE</u>	<u>NAME</u>
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 *Omni* Pro II will automatically adjust its calculations for sunrise and sunset, and time when daylight savings time begins and ends.

LATITUDE :	30
0-60	↑
LATITUDE N/S :	1
1=NORTH 2=SOUTH	↑
LONGITUDE :	90
0-180	↑
LONGITUDE E/W :	2
1=EAST 2=WEST	↑
TIME ZONE :	6
0-12	↑
TIME ZONE E/W :	2
1=EAST 2=WEST	↑

Daylight Savings

The *Omni Pro II* automatically calculates the day of daylight savings time each year. It also adjusts the “time of day” each time daylight savings time begins and ends.

To enable the system to properly calculate daylight savings time, a start month, start weekend, end month, and end weekend is set-up at the factory. You may change or disable this function if desired.

```
DST START MONTH:      3
1-12 0=DISABLE        ↓

DST START WEEKEND:
SECOND SUNDAY        #=CHNG ↓

DST END MONTH:        11
1-12 0=DISABLE        ↓

DST END WEEKEND:
FIRST SUNDAY          #=CHNG ↑
```

Set the value for DST Start and End Months to “0” if Daylight Savings Time does not apply to your region, or to disable this automatic time update feature.

The DST Start and End Weekend takes place on the specified Sunday (1-7) at 2:00 AM.

To change the DST Start or End Weekend, press the ‘ # ’ key, then use the arrow keys to scroll through the list. Press the ‘ # ’ key to make the new selection.

NUMBER	DESCRIPTION
1	First Sunday
2	Second Sunday
3	Third Sunday
4	Fourth Sunday
5	Last Sunday
6	Next to Last Sunday
7	Third from Last Sunday

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*.

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

If your system is set up with *High Security Mode* 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.

The default for *High Security Mode* is Off.

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 Thermostat or PESM in a system, 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.

Console 1-16 Audible Exit Delay

Consoles 1-16 can be configured to beep 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.

Press the 0 key to select “No” (this console will not beep during the exit delay) or the 1 key to select “Yes” (this console will beep during the exit delay). After selecting, press the down-arrow key to change this option for the next console.

CONSOLE 1 AUD EXT:1

0=NO 1=YES↓

The default setting for *Console 1-16 Audible Exit Delay* is Yes.

House Codes 1-16 Format

House Codes 1-16 can be configured to use the specified lighting protocol.

HC 1 FORMAT: 5
Leviton LIGHTING #=CHNG ↑

To change format for House Code 1, press the ‘ # ‘ key, and then use the arrow keys to scroll through the list of formats. Press the ‘ # ‘ key to select the desired format. After selecting, press the down-arrow key to change format for the next House Code.

FORMAT	NUMBER	DESCRIPTION
STANDARD	0	Preset Dim Command (X-10, X-10 Pro, <i>Leviton</i> , PCS, etc.)
EXTENDED	1	Extended Code Level Command (<i>Leviton</i>)
COMPOSE	2	Compose Mode (Lightolier’s Compose)
UPB	3	Universal Powerline Bus (open format)
RADIO RA	4	<i>Lutron RadioRA</i>
LEVITON LIGHTING	5	<i>Leviton</i> Lighting Control (HLC)
CENTRALITE	6	CentraLite Lighting
VIZIA RF Z-WAVE	7	<i>Vizia RF Z-Wave</i>
HOMEWORKS	8	<i>Lutron HomeWorks</i>
CLIPSAL C-BUS	9	Clipsal C-Bus
DYNALITE	10	Dynalite
RADIO RA 2	11	<i>Lutron RadioRA 2</i>
SOMFY SDN	12	Somfy SDN
ZIGBEE	13	ZigBee®
KNX	14	KNX Gateway
LUMA-NET	15	Luma-Net Lighting
SOMFY URTSI	16	Somfy URTSI

The default setting for *HC 1-16 Format* is 5 (HLC).

House Codes 1-16 All Off

This feature allows you to choose if House Code 1-16 will respond to the “All Off” command. Press the 0 key to select “No” and the 1 key to select “Yes”. After selecting, press the down-arrow key to change this option for the next House Code. The default setting for *HC 1-16 All Off* is Yes.

HC 1 ALL OFF: 1
0=NO 1=YES ↓

Notes:

1. When configured, each House Code will affect 2 rooms of HLC or *Vizia RF Z-Wave* lighting (i.e. HC 1 ALL OFF affects Room 1 and 2).
2. When the House Code is configured as *UPB*, *RadioRA*, or *CentraLite*, “House Code All Off” does not affect the state of the installed devices; however, if this setup item is set to “Yes”, *Omni Pro II* will change the status of all units on that House Code to “Off” (even though it doesn’t explicitly send an All Off command to those units). If the “House Code All Off” setup item is set to “No”, *Omni Pro II* will not change the status of units on that House Code.

House Codes 1-16 All On

This feature allows you to choose if House Code 1-16 will respond to the “All On” command. Press the 0 key to select “No” and the 1 key to select “Yes”. After selecting, press the down-arrow key to change this option for the next House Code. The default setting for *HC 1-16 All On* is Yes.

HC 1 ALL ON: 1
0=NO 1=YES ↓

Notes:

1. When configured, each House Code will affect 2 rooms of HLC or *Vizia RF Z-Wave* lighting (i.e. HC 1 ALL ON affects Room 1 and 2).
2. When the House Code is configured as *UPB*, *RadioRA*, or *Centralite*, “House Code All On” does not affect the state of the installed devices; however, if this setup item is set to “Yes”, *Omni Pro II* will change the status of all units on that House Code to “On” (even though it doesn’t explicitly send an All On command to those units). If the “House Code All On” setup item is set to “No”, *Omni Pro II* will not change the status of units on that House Code.

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, codes, temperatures, areas, and messages. These names are displayed instead of the unit, zone, button, code, temperature, area, and message number that is normally displayed. Zone and Message 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      ↓

4=CODE 5=TEMP 6=AREA
8=MSG                      ↑

```

The 6 (AREA) choice will only be displayed if area arming is being used.

Select the item that you would like to name by pressing one of the keys (1-6, and 8). The current name for the first item (unit, zone, button, code, temperature, area, and message) 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 Appendix B 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                      ↓

ZONE 1: FRONT DOOR-----
00-95                      ↑=DEL

ZONE 1: FRONT DOOR
00-95                      ↓

```

Set Up Voice

The *Omni Pro II* can be set up to speak descriptive names such as “FRONT DOOR” for control zones, units, buttons, codes, temperatures, areas, and messages. These names will be spoken over the telephone along with the item number that is normally spoken. Voice descriptions for messages can be spoken over a speaker when used with a Two-Way Audio Module.

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 5=TEMP 6=AREA
8=MSG                      ↑

```

Select the item that you would like to give a voice description. Use the arrow keys to scroll through the list of names.

To enter a voice description, enter the code shown next to the voice description in 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,

temperature, area, and message), press the ‘ # ‘ key twice. You may enter up to six (6) descriptions (word or group of words) for each unit, zone, button, code, temperature, area, and message.

UNIT 1 VOICE:



UNIT 1 VOICE:
144 109



When Unit 1 is spoken over the phone, the *Omni Pro II* 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 *Omni Pro II* 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 5 seconds of picking up the phone. The *Omni Pro II* will respond with a menu. Press 8 on the telephone keypad, then 8. The unit will say “ADDRESS IS:” then the *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II* 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 *Omni Pro II* will think that the tone is a code being entered by the called party and it will stop talking.

AUDIO CONTROL

Once configured by your installer, from any OmniTouch touchscreen, you can control on/off, volume, muting, transports, Audio Source (up to 8 Audio Sources), and many other functions for each of the Audio Zones (up to 36 Audio Zones) on your audio distribution system.

To control the audio distribution system from an OmniTouch touchscreen, press the “Audio” icon on the Home page. The Audio Zone can be changed using the “Zone” button on the touchscreen interface. Once the Audio Zone has been changed, it becomes the new default Audio Zone for that OmniTouch touchscreen. If desired, each OmniTouch touchscreen can be configured to default to a different Audio Zone.

The top line on the display will show the Audio Zone name (e.g. Living Room), followed by: ON (the Audio Zone is currently on), OFF (the Audio Zone is currently off), or MUTE (the Audio System is currently muted). Justified to the right of the display on the top line is the current volume level for the Audio Zone, displayed as a percentage (0%-100%).

The second line on the display will show the Audio Source name (e.g. AM/FM TUNER), followed by applicable information for the selected Audio Source (i.e. AM or FM Frequency, Station Name, Channel Number, Artist, Song Name, etc.).

Once completed, press the Exit icon to return to OmniTouch Home page.

Changing Audio Source

To select a new Audio Source for the current Audio Zone, press the “Source” button on the touchscreen interface. Select the desired Audio Source from the Source list box. Once selected, you will be able to control the new Audio Source from the touchscreen interface.

Changing Audio Zone

To select a new Audio Zone, press the “Zone” button on the touchscreen interface. Select the desired Audio Zone from the Zone list box. Once selected, you will be able to control that Audio Zone from the touchscreen interface. The selected Audio Zone will be the default for that OmniTouch touchscreen until a different Audio Zone is selected.

Configuring Source and Zone Names

The names that are displayed on the OmniTouch touchscreen interface for Audio Source and Audio Zone must be configured in the *Omni Pro II* controller. A name must be given to each Audio Source and Audio Zone to make it available in the respective list box when changing the Audio Source or Audio Zone.

When your *Omni Pro II* is configured to control an audio distribution system, certain unit numbers (currently flag units) are allocated for Audio Source or Audio Zone names. This means that the allocated unit numbers may no longer be used as flag units and they will no longer be displayed in the unit list.

Unit numbers 457-464 are allocated for the Audio Source names. These names should match the names of each Audio Source in your audio distribution system. For example:

Audio Distribution System		Leviton Omni Pro II	
Source 1	AM/FM Tuner	Unit 457	AM/FM Tuner
Source 2	XM Tuner	Unit 458	XM Tuner
Source 3	Home Theater	Unit 459	Home Theater
Source 4	CD Player	Unit 460	CD Player
Source 5	Satellite	Unit 461	Satellite

Unit numbers 473-508 are allocated for the Audio Zone names. These names should match the names of each Audio Zone in your audio distribution system. For example:

Audio Distribution System		Leviton Omni Pro II	
Zone 1	Living Room	Unit 473	Living Room
Zone 2	Den	Unit 474	Den
Zone 3	Kitchen	Unit 475	Kitchen
Zone 4	Patio	Unit 476	Patio
Zone 5	Master Bedroom	Unit 477	Master BedRM
Zone 6	Master Bathroom	Unit 478	Master Bath

Programming Audio Commands

Using *Leviton* PC Access Software, you can create programs to control *Audio Zones*, *Volume*, *Audio Sources*, and simulate *Key Presses* on the audio system keypad or remote control.

- The *Audio Zone Command* allows you to create programs to select Off, On, Mute Off, and Mute On for individual Audio Zones or for All Audio Zones.
- The *Volume Command* allows you to create programs to set the volume from 0% to 100% for the specified Audio Zone.
- The *Audio Source Command* allows you to create programs to select an Audio Source for the specified Audio Zone.
- The *Key Press Command* allows you to create programs to simulate key presses for the respective audio system.

(See – Table 1 – Audio Commands) for all applicable audio commands for each of the supported audio systems.

Example Programming of Audio Commands

You can create programs in your *Omni Pro II* to customize your music experience. For example, you can create programs to play your favorite music when you return home and disarm your system.

When the security system is disarmed by Bob, execute the “Bob Is Home” macro:

```
WHEN Bob OFF: RUN Bob Is Home
```

When the “Bob Is Home” macro is executed, turn the Living Room Audio Zone on, set the volume of the Living Room Audio Zone to 50%, set the Living Room Audio Source to “CD Player”, and press the “Play” key to start the CD:

```
WHEN Bob Is Home: Living Room AUDIO ON (Audio Zone Command)
WHEN Bob Is Home: Living Room AUDIO VOLUME 50% (Volume Command)
WHEN Bob Is Home: Living Room AUDIO SOURCE CD Player (Audio Source Command)
WHEN Bob Is Home: Living Room AUDIO KEY PRESS PLAY (Key Press Command)
```

Table 1 - Audio Commands

Code	Leviton Hi-Fi	Russound ¹	NuVo ²	NuVo Grand Concerto	Xantech ³	Speakercraft ⁴
1	Power	Power	Power	Power	Power	Source select 1
2	Source step	Source step	Source step	Source step	Source select 1	Source select 2
3	Vol up	Vol up	Vol up	Vol up	Source select 2	Source select 3
4	Vol down	Vol down	Vol down	Vol down	Source select 3	Source select 4
5	Mute	Mute	Mute	Mute	Source select 4	Source select 5
6		Play	Play	Play / Pause	Source select 5	Source select 6
7		Stop	Stop	Stop (not used)	Source select 6	Source select 7
8		Pause	Pause	Pause (not used)	Source select 7	Source select 8
9		Minus	Rewind	Previous	Source select 8	Mute
10		Plus	Forward	Next	Channel up	Vol Up
11		Previous	Fast rewind	Favorite 1	Channel down	Power
12		Next	Fast forward	Favorite 2	Mute	Vol Down
13		Record	Continuous	Favorite 3	Play	One
14		Channel up	Shuffle	Favorite 4	Stop	Two
15		Channel down	Group	Favorite 5	Pause	Three
16		Zero	Disc	Favorite 6	Rewind	Four
17		One	Zero	Favorite 7	Forward	Five
18		Two	One	Favorite 8	Vol up	Six
19		Three	Two	Favorite 9	Vol down	Seven
20		Four	Three	Favorite 10	Tier 2 power	Eight
21		Five	Four	Favorite 11	Tier 2 source select 1	Nine
22		Six	Five	Favorite 12	Tier 2 source select 2	Track
23		Seven	Six	Ok button down	Tier 2 source select 3	Zero
24		Eight	Seven	Ok button up	Tier 2 source select 4	Disc
25		Nine	Eight	Play / Pause button down	Tier 2 source select 5	Random
26		Plus ten	Nine	Play / Pause button up	Tier 2 source select 6	Repeat
27		Enter	Plus ten	Previous button down	Tier 2 source select 7	Bass
28		Last	Enter	Previous button up	Tier 2 source select 8	Treble
29		Sleep	Hotkey zero	Next button down	Tier 2 channel up	Guide
30		Guide	Hotkey one	Next button up	Tier 2 channel down	Menu
31		Exit	Hotkey two	Power / Mute button down	Tier 2 mute	Up
32		Info	Hotkey three	Power / Mute button up	Tier 2 play	Left
33		Menu	Hotkey four	Menu button down	Tier 2 stop	Select
34		Menu up	Hotkey five	Menu button up	Tier 2 pause	Right
35		Menu right	Hotkey six	Up button down	Tier 2 rewind	Down
36		Menu down	Hotkey seven	Up button up	Tier 2 forward	Escape
37		Menu left	Hotkey eight	Down button down		Info
38		Select	Hotkey nine	Down button up		Rewind
39		Favorite 1				Forward
40		Favorite 2				Pause
41						Play
42						Stop

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 *Omni Pro II* 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 *Omni Pro II* system causes harm to the telephone network, the telephone company may disconnect your 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 its 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:

Leviton
4330 Michoud Blvd.
New Orleans, LA 70129

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

Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Industry Canada 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.

Notice: The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

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 *Omni Pro II* 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 - DIAL OUT PLANNER

Use the following dial-out planner to help you set-up the voice dial-out numbers:

Omni Pro II Voice Dial-Out Planner

DIAL OUT NUMBER 1: _____ AREA: _____

DIAL OUT 1 ON: TIME: _____ DAYS: _____

DIAL OUT 1 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 2: _____ AREA: _____

DIAL OUT 2 ON: TIME: _____ DAYS: _____

DIAL OUT 2 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 3: _____ AREA: _____

DIAL OUT 3 ON: TIME: _____ DAYS: _____

DIAL OUT 3 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 4: _____ AREA: _____

DIAL OUT 4 ON: TIME: _____ DAYS: _____

DIAL OUT 4 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 5: _____ AREA: _____

DIAL OUT 5 ON: TIME: _____ DAYS: _____

DIAL OUT 5 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 6: _____ AREA: _____

DIAL OUT 6 ON: TIME: _____ DAYS: _____

DIAL OUT 6 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 7: _____ AREA: _____

DIAL OUT 7 ON: TIME: _____ DAYS: _____

DIAL OUT 7 OFF: TIME: _____ DAYS: _____

DIAL OUT NUMBER 8: _____ AREA: _____

DIAL OUT 8 ON: TIME: _____ DAYS: _____

DIAL OUT 8 OFF: TIME: _____ DAYS: _____

APPENDIX B - TEXT DESCRIPTION CHARACTER CODES

CODE CHAR		CODE CHAR		CODE CHAR		CODE CHAR
00 SPACE		24 8		48 P		72 h
01 !		25 9		49 Q		73 i
02 “		26 :		50 R		74 j
03 #		27 ;		51 S		75 k
04 \$		28 <		52 T		76 l
05 %		29 =		53 U		77 m
06 &		30 >		54 V		78 n
07 ‘		31 ?		55 W		79 o
08 (32 @		56 X		80 p
09)		33 A		57 Y		81 q
10 *		34 B		58 Z		82 r
11 +		35 C		59 [83 s
12 ,		36 D		60 ¥		84 t
13 -		37 E		61]		85 u
14 .		38 F		62 ^		86 v
15 /		39 G		63 _		87 w
16 0		40 H		64 `		88 x
17 1		41 I		65 a		89 y
18 2		42 J		66 b		90 z
19 3		43 K		67 c		91 -
20 4		44 L		68 d		92 ×
21 5		45 M		69 e		93 —
22 6		46 N		70 f		94 à
23 7		47 O		71 g		95 ß

APPENDIX C - VOICE DESCRIPTION CODES

CODE DESCRIPTION

255 (ADDRESS MSG)
 58 (BEEP)
 254 (MEMO MESSAGE)
 29 (PAUSE)
 30 (SHORT PAUSE)
 26 A. M.
 256 ABOVE
 31 AC POWER
 32 ACCESS
 257 ACTIVE
 33 ADDRESS
 258 AFTERNOON
 259 AIR
 34 ALARM
 260 ALERT
 35 ALL
 198 ALLEY
 261 AMPLIFIER
 262 AND
 263 ANNIVERSARY
 264 ANTIQUE
 195 APARTMENT
 36 APPLIANCE
 265 APPROACHING
 266 APRIL
 37 AREA
 267 ARMED
 199 ART
 268 ASLEEP
 269 ASSISTANCE
 270 AT
 271 ATRIUM
 38 ATTIC
 272 AUDIO
 273 AUGUST
 39 AUTO
 274 AUTOMATIC
 275 AUTOMATION
 40 AUXILIARY
 276 AWAKE
 41 AWAY
 277 BABY'S
 42 BACK
 278 BANK
 279 BAR
 280 BARN
 43 BASEMENT
 44 BATH
 45 BATTERY
 281 BAY
 46 BED
 282 BELL
 283 BILL
 284 BIRTHDAY
 285 BOARD

CODE DESCRIPTION

286 BOAT
 200 BOILER
 287 BOTTOM
 288 BOUDOIR
 47 BOY'S
 201 BREAK
 289 BREAKFAST
 48 BRIGHTER
 49 BUILDING
 50 BURGLAR
 51 BUTTON
 52 BYPASS
 290 CABINET
 291 CABLE
 292 CALL
 202 CAMERA
 53 CANCEL
 293 CANS
 294 CARPORT
 203 CASE
 204 CCTV
 295 CD
 205 CEILING
 296 CELLAR
 54 CENTER
 297 CENTRAL
 206 CHANDELIER
 298 CHANGE
 196 CHECK
 299 CHILDREN'S
 300 CHRISTMAS
 301 CIRCUIT
 302 CLASS
 303 CLOSE
 304 CLOSED
 55 CLOSET
 56 CODE
 305 COFFEE
 306 COLD
 307 COMFORT
 308 COMMUNICATOR
 309 COMPANY
 194 COMPUTER
 310 CONSOLE
 207 CONTACT
 57 CONTINUE
 59 CONTROL
 60 COOL
 311 CORNER
 312 COUNTER
 313 CRAFT
 314 CRITICAL
 315 CURRENT
 316 CURTAIN
 317 DAMPER

CODE DESCRIPTION

318 DANGER
 61 DATE
 62 DAY
 319 DEAD
 320 DECEMBER
 208 DECK
 321 DECREASE
 63 DEGREES
 64 DELAYED
 65 DEN
 66 DENIED
 209 DESK
 322 DETECTED
 210 DETECTOR
 323 DEVICE
 324 DIAL
 325 DIGIT
 67 DIMMER
 68 DINING
 326 DISABLE
 327 DISARMED
 211 DOCK
 328 DOG
 69 DOOR
 70 DOWN
 330 DRAPES
 212 DRAWER
 331 DRESSING
 71 DRIVEWAY
 72 DURESS
 332 DVD
 73 EAST
 333 ECONOMY
 22 EIGHT
 8 EIGHTEEN
 23 EIGHTY
 334 ELEVATOR
 1 ELEVEN
 74 EMERGENCY
 335 ENABLE
 75 ENERGY
 76 ENTER
 336 ENTERING
 337 ENTERTAINMENT
 77 ENTRY
 193 EQUIPMENT
 338 EVENING
 78 EVENTS
 213 EXECUTIVE
 339 EXERCISE
 79 EXIT
 340 EXTENSION
 214 EXTERIOR
 215 FACTORY
 216 FAILURE

CODE DESCRIPTION

341 FALL
80 FAMILY
81 FAN
342 FATHER'S
343 FAULT
344 FEBRUARY
217 FENCE
5 FIFTEEN
17 FIFTY
218 FILE
345 FILTER
82 FIRE
219 FIRST
16 FIVE
346 FLAG
347 FLOOD
220 FLOOR
221 FLOW
348 FORCE
15 FORTY
349 FOUNDATION
350 FOUNTAIN
14 FOUR
4 FOURTEEN
83 FOYER
84 FREEZE
351 FREEZER
352 FRIDAY
353 FROM
85 FRONT
354 FULL
355 FUNCTION
222 FURNACE
86 FUSE
223 GALLERY
356 GAME
87 GARAGE
357 GARDEN
88 GAS
224 GATE
89 GIRL'S
90 GLASS
358 GO
92 GO TO
359 GOOD
91 GOOD-BYE
360 GOT
361 GREAT
362 GROUNDS
363 GROUP
364 GUARD
93 GUEST
94 GUN
365 GYM
95 HAD
96 HALL
366 HAPPY
367 HARBOR
368 HAVE
97 HEAT

CODE DESCRIPTION

369 HELLO
370 HELP
98 HIGH
371 HIGHER
372 HOBBY
99 HOLD
373 HOLIDAY
374 HOME
375 HOT
100 HOURS
376 HOUSE
377 HUMIDITY
101 HUNDRED
378 IMMEDIATELY
379 IN
380 INCREASE
225 INFRARED
381 INPUT
226 INSIDE
102 INSTANT
103 INTERIOR
382 INTERNET
227 INTRUSION
104 INVALID
105 IS
383 JACUZZI
384 JANUARY
385 JEWELRY
386 JULY
387 JUNE
388 KEEPER
389 KENNEL
390 KEY
106 KITCHEN
228 LAMP
391 LANAI
392 LAND
393 LANDSCAPE
394 LASER DISK
395 LAST
396 LAUNCH
397 LAUNDRY
398 LAWN
399 LEAK
400 LEAVE
107 LEFT
108 LEVEL
401 LIBRARY
402 LIFT
109 LIGHT
403 LIGHTING
404 LIGHTS
110 LISTEN
405 LIVE
111 LIVING
229 LOADING
406 LOBBY
230 LOCK
407 LOFT
112 LOW

CODE DESCRIPTION

408 LOWER
231 MACHINE
409 MAID'S
410 MAIL
113 MAIN
411 MANAGEMENT
412 MANAGER
413 MARCH
114 MASTER
414 MAT
415 MAY
416 MECHANICAL
115 MEDICAL
417 MEDICATION
418 MEETING
419 MENU
197 MESSAGE
420 METER
421 MID
422 MIDDLE
423 MIDNIGHT
116 MINUS
117 MINUTES
424 MOBILE
118 MODE
425 MODEM
426 MODULE
427 MONDAY
232 MONITOR
428 MONTH
429 MORNING
430 MOTHER'S
119 MOTION
431 MOVIE
432 MUD
433 MUSIC
434 MUTE
435 NANNY
436 NEXT
120 NIGHT
24 NINE
9 NINETEEN
25 NINETY
437 NO
438 NOOK
439 NOON
121 NORTH
122 NOT
440 NOVEMBER
123 NOW
124 NUMBER
125 NURSERY
441 NURSE'S
442 O'CLOCK
443 OCTOBER
126 OFF
127 OFFICE
128 OH
129 ON
130 ONE

CODE DESCRIPTION

444 ONLINE
445 ONLY
233 OPEN
446 OPTION
131 OR
447 OTHER
448 OUT
132 OUTDOOR
133 OUTLET
449 OUTSIDE
450 OVER
234 OVERFLOW
235 OVERHEAD
27 P. M.
134 PANIC
451 PANTRY
452 PARKING
453 PARLOR
454 PARTY
135 PATIO
455 PAUSE
136 PC
137 PERIMETER
456 PERSONNEL
457 PET
138 PHONE
458 PHRASE
459 PIER
460 PLACE
461 PLANTS
139 PLAY
140 PLEASE CHOOSE
462 PLUS
141 POINT
142 POLICE
143 POOL
144 PORCH
463 POSITION
464 POT
145 POUND
465 PRECIOUS
146 PRESS
466 PRESSURE
467 PROGRAM
468 PROTECTED
147 PUMP
469 QUARTERS
470 RAIN
471 RAISE
472 READING
148 READY
236 REAR
149 RECORD
473 RECREATION
474 RECYCLE
150 REMOTE
151 REPEAT
475 RESIDENCE
152 RESTORE
476 RESTRICTED

CODE DESCRIPTION

153 RIGHT
154 RISE
477 ROMANTIC
237 ROOF
155 ROOM
478 RUN
238 SAFE
479 SAFETY
239 SATELLITE
480 SATURDAY
481 SAUNA
156 SAVER
482 SCENE
483 SCHOOL
484 SCREEN
240 SECOND
157 SECONDS
158 SECURE
159 SECURITY
485 SEND
241 SENSOR
486 SEPTEMBER
487 SERVICE
488 SET
160 SETTING
20 SEVEN
7 SEVENTEEN
21 SEVENTY
489 SEWING
490 SHADES
491 SHED
492 SHOCK
161 SHOP
493 SHOW
494 SHUTTERS
162 SIDE
163 SILENT
18 SIX
6 SIXTEEN
19 SIXTY
495 SKYLIGHT
496 SLIDING
497 SMART
242 SMOKE
498 SNOW
164 SOUTH
165 SPA
499 SPARE
500 SPOT
501 SPRING
243 SPRINKLER
502 STABLE
166 STAIRS
503 STAIRWELL
167 STAR
244 STATION
168 STATUS
169 STEPS
191 STOCK
170 STORAGE

CODE DESCRIPTION

245 STORE
504 STUDIO
505 STUDY
506 SUITE
507 SUMMER
508 SUMP
171 SUN
509 SUNDAY
510 SWITCH
172 SYSTEM OK
511 TABLE
173 TALK
174 TAMPER
512 TAPE
513 TEEN
246 TELLER
175 TEMPERATURE
514 TEMPORARY
176 TEN
515 TENANT
516 THANK YOU
517 THEATER
177 THEN
178 THERMOSTAT
247 THIRD
3 THIRTEEN
13 THIRTY
12 THREE
518 THURSDAY
179 TIME
180 TIMED
519 TIMER
181 TO
520 TOOL
521 TOP
522 TOUCHSCREEN
523 TRACK
524 TRANSMITTER
248 TRAP
525 TRASH
526 TREE
183 TRIPPED
182 TROUBLE
527 TUB
528 TUESDAY
529 TUNER
530 TV
2 TWELVE
11 TWENTY
10 TWO
531 TYPE
532 UNDER
184 UNIT
185 UP
533 UPPER
534 USER
192 UTILITY
186 VACATION
249 VALVE
535 VANITY

CODE DESCRIPTION

250	VAULT
536	VCR
537	VIDEO
538	VISITOR
539	VOLUME
540	WAITING
541	WALK
542	WALKWAY
251	WAREHOUSE
543	WARNING
187	WATER
544	WEDNESDAY
28	WELCOME TO OMNI
545	WELCOME
188	WEST
189	WINDOW
546	WINE
252	WING
547	WINTER
548	WOOD
549	WORK
253	YARD
550	YOU
190	ZONE
601	PHRASE 1
602	PHRASE 2
603	PHRASE 3
604	PHRASE 4

CODE DESCRIPTION

605	PHRASE 5
606	PHRASE 6
607	PHRASE 7
608	PHRASE 8
609	PHRASE 9
610	PHRASE 10
611	PHRASE 11
612	PHRASE 12
613	PHRASE 13
614	PHRASE 14
615	PHRASE 15
616	PHRASE 16
617	PHRASE 17
618	PHRASE 18
619	PHRASE 19
620	PHRASE 20
621	PHRASE 21
622	PHRASE 22
623	PHRASE 23
624	PHRASE 24
625	PHRASE 25
626	PHRASE 26
627	PHRASE 27
628	PHRASE 28
629	PHRASE 29
630	PHRASE 30
631	PHRASE 31
632	PHRASE 32

CODE DESCRIPTION

633	PHRASE 33 (1&2)
634	PHRASE 34 (3&4)
635	PHRASE 35 (5&6)
636	PHRASE 36 (7&8)
637	PHRASE 37 (9&10)
638	PHRASE 38 (11&12)
639	PHRASE 39 (13&14)
640	PHRASE 40 (15&16)
641	PHRASE 41 (17&18)
642	PHRASE 42 (19&20)
643	PHRASE 43 (21&22)
644	PHRASE 44 (23&24)
645	PHRASE 45 (25&26)
646	PHRASE 46 (27&28)
647	PHRASE 47 (29&30)
648	PHRASE 48 (31&32)
649	PHRASE 49 (1-4)
650	PHRASE 50 (5-8)
651	PHRASE 51 (8-12)
652	PHRASE 52 (13-16)
653	PHRASE 53 (17-20)
654	PHRASE 54 (20-24)
655	PHRASE 55 (25-28)
656	PHRASE 56 (29-32)
657	PHRASE 57 (1-8)
658	PHRASE 58 (9-16)
659	PHRASE 59 (17-24)
660	PHRASE 60 (25-32)

NOTES ON CUSTOM PHRASES

When you can't find a word that you need to complete a voice description or voice message, you have the ability to record a custom phrase in *Omni Pro II*. This phrase can then be used as part of your voice description and spoken over the telephone along with the item number that is normally spoken. It can also be part of your voice descriptions for a message that is spoken over a speaker in your home or business. There is enough memory in *Omni Pro II* for 64 seconds of voice data.

Phrases 1-32 are unique two-second phrases.

Phrases 33-48 are four-second phrases that are made up of 2 two-second phrases. If you have a need for a voice description or voice message to be longer than the two-second allotment for Phrases 1-32, then Phrases 33-48 can be used to simulate a four-second phrase. For example, when you record Phrase 33 (which is a four-second phrase), the voice data is actually stored in Phrase 1 and Phrase 2. In this case, Phrase 1 and Phrase 2 are probably unusable individually because the first half of the voice data for Phrase 33 is stored in Phrase 1 and the second half is stored in Phrase 2.

Phrases 49-56 are eight-second phrases that are made up of 4 two-second phrases. For example, when you record Phrase 49 (which is an eight-second phrase), the voice data is stored in Phrases 1-4. In this case, Phrases 1-4 are probably unusable individually because the voice data for Phrase 49 is divided up and stored in those phrase locations.

Phrases 57-60 are sixteen-second phrases that are made up of 8 two-second phrases. For example, when you record Phrase 57 (which is a sixteen-second phrase), the voice data is actually stored in Phrases 1-8. In this case, Phrases 1-8 are probably unusable individually because the voice data for Phrase 57 is divided up and stored in those phrase location.

APPENDIX D – ADVANCED FEATURES

Description

- *Leviton* Trigger messages for simple integration with remote serial devices
- User Settings
- Enhanced Programming
- Real-Time operation status of thermostats
- Support for Omnistat2 Thermostats
- OmniTouch support for real-time cool/heat/humidify/dehumidify status
- Automatic cycling of switched power when the system is disarmed
- Support for *Leviton* Access Control

Leviton Triggers

The Pro-Link serial protocol has been enhanced by the inclusion of predefined ASCII serial messages called *Leviton* Triggers. *Leviton* Triggers can be used to activate or “trigger” programs in the *Omni* Pro II controller when the specified ASCII serial message is received over a Pro-Link serial port. This is an easy way to interface with other serial devices (such as touchscreens, remote controls with a serial expander, etc.) that have a programmable ASCII protocol or that have *Leviton* Trigger messages predefined in the device.

There are 127 *Leviton* Triggers. Each *Leviton* Trigger consists of ASCII characters starting with the characters “*Leviton*” and ending with the number (1-127) of the trigger; hence, the triggers are Leviton1 – Leviton127.

User Settings

User Settings consist of numbers, levels, times, dates, days of the week, durations, temperature settings, and humidity settings that can referenced in automation programs for a variety of uses. Each of these User Settings can then be easily modified by the user from a console or touchscreen, without any additional programming. User Settings can be used for programming wake-up times, lighting scenes, comfort temperatures when you are home, asleep, or away, sprinkler times, and much more.

Omni Pro II has 25 User Settings which may be used. Once configured by your installer, you can name and assign values to each of the preconfigured User Settings. To assign names to User Settings, under **Setup | Names** select 9 (USET).

- To access User Settings from a console, press **6** (STATUS), and then **9** (USET):
- From a Touchscreen without Video, touch the **Setup** icon, and then **User Settings**.
- From a Touchscreen with Video, touch the **System** icon, then **Setup**, and then **User Settings**.

For example, a use of a “Time” and/or “Date” User Setting is for a daily “Wake Up” time. You can easily change this time and days from a console or touchscreen.

This program is written with the User Settings (Wake Up Time) and (Wake Up Days) as the trigger.

```
TIMED WAKE UP TIME WAKE UP DAYS
THEN BEDROOM LIGHTS ON
THEN BEDROOM AUDIO ON
THEN BEDROOM AUDIO VOLUME 50%
THEN BEDROOM AUDIO SOURCE XM TUNER
```

The same program can be written with the User Setting (Wake Up Time) and (Wake Up Days) in the condition, rather than the trigger.

```

EVERY 1 MINUTE
  AND IF TIME IS WAKE UP TIME
  AND IF DAY OF WEEK IS IN WAKE UP DAYS
    THEN BEDROOM LIGHTS ON THEN BEDROOM AUDIO ON
    THEN BEDROOM AUDIO VOLUME 50%
    THEN BEDROOM AUDIO SOURCE XM TUNER

```

You can also programmatically change a user setting. For example, if you sleep a little later on weekends, you can have a program that automatically changes the “Wake Up” time. For example:

```

TIMED 12:00AM -----SS
  THEN SET WAKE UP TIME TO 8:00AM

```

Enhanced Programming

Note: To take advantage of the Enhanced Programming features, programs must be written with *Leviton* PC Access Version 3.0 or later.

Enhanced Programming consists of several new features and structures that allow you to take full advantage of the powerful programming capabilities of your *Omni* Pro II controller. Enhanced Programming includes:

- Program block that may have multiple triggers, multiple conditions, and multiple actions
- Program block that can be triggered every so many minutes, seconds, or hours.
- Conditions can be created that utilize and/or not logic and that utilize relational operators
- Conditions can reference properties of zones, units, thermostats, temperature/humidity sensors, messages, security status, time/date, audio, access control, as well as constants and user settings.
- Most information known by the controller can now be used in automation programming.

Program Blocks

Enhanced automation programs are now constructed in blocks to create a simpler, yet more flexible programming environment. Each program block may contain multiple triggers, multiple conditions, and multiple commands.

“Every” Program Trigger

A new program trigger has been added which allows a program block to be activated every so many seconds, minutes, or hours. This trigger is specified with an associated timer; when the timer expires, the program block is processed, and then the timer is reset.

This program trigger is used to evaluate conditions on an ongoing basis, by the length of the specified time. For example:

```

EVERY 5 SECONDS
  AND IF THERMOSTAT 1 IS GREATER THAN 75
    THEN BEDROOM FAN ON

```

Relational Operators in Conditions

For each condition, you have the ability to utilize relational operators. Each condition includes an operator and one or two values to check. Relational operators include equal to, not equal to, less than, greater than, is even, is odd, is a multiple of, and set membership checks. Greater than and less than operators allow for an extra value to be specified to check if a certain item is greater than or less than another item by more than the specified amount. For example:

```

WHEN ARM AWAY
  AND IF WINDOW FLAG CURRENT VALUE IS LESS THAN 10
    THEN THERMOSTAT 1 OFF

```

“And/Or” Logic Operators in Conditions

A program statement with “And” specifies a conditional expression that must be true for the remainder of the program block to be processed. A program statement with “Or” combines two or more groups of “And” statements, such that as long as all the “And” statements in one of the groups are true, the commands in the “Then” group is processed.

For example:

```
WHEN ARM AWAY
  AND IF LIVING ROOM ON
  AND IF DINING ROOM ON
  OR
  AND IF DARK
  THEN ALL HOUSE LIGHTS OFF
```

Enhanced Conditions

Conditions can reference properties of units, security status, zones, thermostats, temperature and humidity sensors, time, date, audio, access control, messages, as well as constants and user settings. The condition can be evaluated by just about anything the *Leviton* controller knows about.

- a. Units: current state, previous state, timer, and level.
- b. Security: security mode, current mode including exit delay, arming code, entry timer, exit timer, alarm status, horn (sounder) status, and digital communicator status for each security area.
- c. Zones: loop reading, current state, arming state, and alarm state.
- d. Thermostats: current temperature, heat setpoint, cool setpoint, heater currently running, air conditioning currently running, system mode, fan mode, hold mode, freeze alarm, communications error, current humidity, humidify setpoint, dehumidify setpoint, currently humidifying, currently dehumidifying, and outdoor temperature.
- e. Temperature Sensors: current temperature, low setpoint, high setpoint, freeze alarm, and output state.
- f. Humidity Sensors: current humidity, low setpoint, and high setpoint.
- g. Time: time (hour and minute), hour, minute, daylight saving time status, and time of sunrise and sunset.
- h. Date: date (month and day), year, month, day, and day of week.
- i. Audio: power state, source, volume, and mute status for each audio zone.
- j. Access Control: lock status, last user, and whether access was granted or denied for each access control reader.
- k. Messages: currently displayed message and if it has been acknowledged.
- l. System: current energy cost, phone line status, battery reading, ok to arm status, armed status, and outdoor temperature.

Real-Time Operation Status of Thermostats

The current real-time heating and cooling status on an Omnistat or Omnistat2 is indicated on the Temperature Page on an OmniTouch Touchscreen. When the HVAC system is currently heating, a yellow block will appear around “Heat”. When the HVAC system is currently cooling, a yellow block will appear around “Cool”.

The current real-time humidifying and dehumidifying status of an Omnistat2 is indicated on the Humidity Page, for the respective Omnistat2, on the OmniTouch Touchscreen. When the thermostat is calling for humidification, a yellow block will appear around “Hmfy”. When the thermostat is calling for dehumidification, a yellow block will appear around “Dfhy”.

The current real-time status for heating, cooling, humidifying, and dehumidifying can also be used in automation programming logic.

Omnistat2 Features

There are several features on Omnistat2 thermostats that are supported by the *Omni Pro II* controller. These features include:

- Fan Cycle Mode
- Vacation Hold
- Humidity Display
- Humidity Setpoints
- Outdoor Temperature
- Occupancy Status
- Time and Date
- Energy Status

Fan Cycle Mode

In *Fan Cycle* mode on an Omnistat2 thermostat, the fan is cycled on and off in 20 minute cycles to circulate the air.

The fan control may be switched between auto, on, and cycle by selecting 4 (FAN) from the temperature menu of the selected Omnistat2 thermostat:

```
Upstairs FAN
0=AUTO 1=ON 2=CYCLE
```

Vacation Hold

In *Vacation Hold* mode, the thermostat ignores program schedule and remote system temperature setting changes for the duration of your scheduled time away. *Vacation Hold* can only be initiated at the Omnistat2 thermostat.

When an Omnistat2 thermostat is in *Vacation Hold*, the temperature display on the console or touchscreen for the selected Omnistat2 thermostat will display “Vacation” in the place it would normally display the status of Hold. You can not initiate a *Vacation Hold* command from the controller, but you are able to switch from *Vacation Hold* to *Hold On* or *Hold Off*.

Humidity Display

If your Omnistat2 is equipped with a humidity sensor, from a console or touchscreen, you can view the current relative humidity.

Humidity Setpoints

Humidity Setpoints are used to control connected equipment used for humidification and dehumidification.

The Humidify setting is used to control a stand alone humidifier.

The Dehumidify setting is used to control: a) the Fan Speed of an HVAC system with a variable speed fan, used to augment the dehumidification process, or b) a stand alone dehumidifier.

These humidify and dehumidify settings can be modified from a console, touchscreen, or automation program. The humidify setting may be adjusted at a console by selecting 6 (HMFY) from the temperature menu of the selected Omnistat2 thermostat:

```
Upstairs HUMIDIFY
ENTER HUMIDITY:
```

Enter the desired humidity level, and then press ‘ # ‘ to save setting. If the humidity level falls below this setting, the output connected to the humidifier (if applicable) is activated.

The dehumidify setting may be adjusted at a console by selecting the 7 (DFHY) from the temperature menu of the selected Omnistat2 thermostat:

Upstairs DEHUMIDIFY
ENTER HUMIDITY:

Enter the desired humidity level, and then press ‘ # ‘ to save setting. If the humidity rises above this setting, the output connected to the HVAC fan control or dehumidifier (if applicable) is activated.

Outdoor Temperature

If your Omnistat2 is equipped with an external outdoor temperature sensor, you can view the outdoor temperature from a console or touchscreen. The outdoor temperature can also be used as a condition in an automation program.

Occupancy Status

When the Program Mode of your Omnistat2 is configured for “Occupancy”, the program setpoints are based on the occupancy status of *Omni* Pro II controller. Whenever the security mode changes on the *Omni* Pro II, it will send the current occupancy mode (Day, Night, Away, or Vacation) to Omnistat2 thermostat. When configured in the manner, you can easily adjust the heat and cool settings for each occupancy mode on the Omnistat2 without ever having to create or edit automation programs stored in the controller.

Time and Date

The *Omni* Pro II now sends the current time of day and the date to the Omnistat2. As long as the time and date is correct on the *Omni* Pro II, there is no need to set the time or date on the Omnistat2.

Energy Status

When *Omni* Pro II sends the time and date to the Omnistat2, it also sends the current Energy Level. When the Energy Level changes, the Omnistat2 will display the current “Energy Level” in the Message Bar and will change the backlight color on the Omnistat2 display so that you will know the current energy status at a glance.

Automatic Cycling of Switched Power when the System is Disarmed

Whenever the *Omni* Pro II security system is disarmed, the controller will cycle power to the SWITCH 12V or a Switched Power Output to reset smoke detectors and other latching devices.

This feature allows smoke detectors to be silenced and reset without having to arm the security system.

Third-Party Protocol Enhancements

Numerous enhancements have been made to the Omni-Link and Omni-Link II protocols to increase functionality and ease third-party integration with *Leviton* controllers. Omni-Link II provides for secure non-polling communication over IP networks. To access the protocols, please join our Developer Support Program at

<http://www.homeauto.com/Support/Developers/Developers.asp>.

Leviton Access Control

Leviton Access Control allows you to access doors by opening an electric or magnetic lock, arm and disarm the security system, and achieve many home automation functions such as controlling lighting, energy management, surveillance, and audio. The Access Control Reader is a 125 KHz high security, digitally encrypted, 26-bit proximity card reader. It has durable and scratch resistant polycarbonate housing and full epoxy potting which ensures successful operation even in harsh environments.

Users can utilize either a standard credit card sized Access Control Card or the convenient Access Control Key Tag to access the system. Each card is attached to a user code in the controller which can be managed with several privileges. Users can be granted privileges based on time of day and day of week as well as any other desired events.

The *Leviton* Access Control Card Reader can be used for:

- Validating *Leviton* Access Control Cards or Key Tags
- Logging of Users assigned to Access Control Cards or Key Tags
- Activating an Electric or Magnetic Lock
- Arming or Disarming of the Security System in the respective Area
- Activating Automation Programs

Validating *Leviton* Access Control Cards and Key Tags

In its normal state (i.e. the lock output is in the locked state), a single LED indicator at the bottom of the Access Control Card Reader is illuminated red. When an Access Control Card or Key Tag is presented at an Access Control Card Reader:

If a valid card or key tag is presented:

When a valid card or key tag is presented at the reader, the Access Control Card Reader will beep once and all 9 LED indicators will illuminate the color of the current security arming state for that area.

- LED indicators illuminate red: The security system in the respective area is currently armed
- LED indicators illuminate green: The security system in the respective area is currently disarmed

Note: The LED indicators will remain illuminated until the “Door Unlock” time expires. The “Door Unlock” time is the amount of time configured for the door to remain unlocked when a valid card or key tag is presented at an Access Control Reader.

If an invalid card or key tag is presented:

If an invalid card is presented, the Access Control Card Reader will not beep or change the color or pattern of the LED indicators.

Logging of the User assigned to the Access Control Card or Key Tag

When a card or key tag is presented at the reader and if the card that was presented is configured to log activity, the *Leviton* controller will log that the user presented their card at the respective Access Control Card Reader. The *Leviton* controller will log:

- The Access Control Card Reader where the card was presented
- The User that presented the card If the card was accepted or declined
- The time and date in which the card was presented

Activating an Electric or Magnetic Lock

The *Leviton* Access Control Card Reader has an output for an electric or magnetic door lock. When a valid card or key tag is presented at the reader, all 9 LED indicators will illuminate indicating that the door is currently unlocked (the color of the LED indicators signifies the current security arming state for that area). The LED indicators will stay illuminated while the lock is unlocked. The lock will remain unlocked until the “Door Unlock” time expires. The “Door Unlock” time is configured in the setup of the reader.

Note: When a valid card or key tag is presented at the reader, all 9 LED indicators will illuminate and remain illuminated until the “Door Unlock” time expires, even if there is not a physical lock connected to the reader.

Arming or Disarming of the Security System in the Respective Area

Each *Leviton* Access Control Card Reader is assigned to an Area. When a valid card or key tag (a card or key tag that is valid for the current time of day and day of week, that is assigned for the respective reader, and that has arming and disarming privileges for the respective reader) is presented at the reader 3 times, each presentation within 5 seconds of the previous presentation of the card, the security system will:

- (a) Arm to the Away mode (in the respective area) if the security system is currently disarmed, OR
- (b) Disarm the security system (in the respective area) if the security system is currently armed in any security mode

When a valid card is first presented, the Access Control Card Reader will produce a single short beep and all 9 LED indicators will illuminate the color of the current security arming state for that area. If the card is presented 2 more times within 5 seconds of the previous presentation of the card, the Access Control Reader will produce a single long beep and the mode of the security system will toggle between Off (disarmed) and Away. Whenever the security mode changes, the color of the 9 LED indicators will also change to indicate the new arming state of the area: Red to indicate Away or Green to indicate Disarmed.

Activating Automation Programs

Automation programs can be activated when a card is presented at an Access Control Card Reader. Programs can be activated when a card is presented at a reader by any user or by a specific user and can be executed if the card was accepted or declined. For example, swiping a card can disarm the alarm, release the door lock, light a pathway into the house, change the temperature, and turn on several zones of a whole home audio system, and select their volume and source.

User Setup

Each Access Control Card and Key Tag used is assigned to a code in the *Leviton* controller. The Access Control Card or Key Tag is governed by the validation times/days set for the code (i.e. the Access Control Card or Key Tag is only valid when the code is valid).

Note: An Access Control Card or Key Tag may be assigned to a code even if the code is disabled (i.e. the user code is set to 0000). Even if the code is disabled, the Access Control Card or Key Tag may be used if it is currently valid.

Each Access Control Card and Key Tag can be:

- Enrolled
- Deleted
- Enabled and disabled
- Assigned to specific Access Control Readers
- Configured to log activity
- Configured for arming and disarming privileges

Access Control Cards and Key Tags can easily be enrolled and configured using an *Leviton* console or PC Access software. Access Control Cards and Key Tags are enrolled and configured under **Setup** | **Codes**.

Enrolling Access Control Cards or Key Tags

To enroll Access Control Cards or Key Tags, from the Setup menu, press the 1 (CODES) key. Use the down arrow key to scroll to the “Card Number” menu item. Access Control Cards or Key Tags can be enrolled into the system using one of the following methods:

Method A) Typing in the ID Number of the Access Control Card or Key Tag:

- a. Enter the last 8 digits of the Access Control Card or Key Tag and then press the ‘ # ‘ key.

CARD 1 NUMBER:
000 00000 #=CFG ↑

CARD 1 NUMBER:
095 13564 #=DEL ↑

Method B) Enter configuration mode, then swipe the card 3 times at any Access Control Reader configured in the system:

- a. Press the ‘ # ‘ (#=CFG) key to put the system into configuration mode. The display will show:

CONFIGURE CARD 1
SWIPE CARD 3 TIMES

- b. Go to any Access Control Reader configured in the system, and swipe the Access Control Card or Key Tag 3 times in front of the reader:

CARD 1 NUMBER:
095 13564 #=DEL ↑

Note: you have 3 minutes to complete the operation once the system is put into configuration mode. If an *Leviton* Access Control Card or Key Tag has not been swiped 3 times within the first 3 minutes, the controller will automatically exit configuration mode.

Deleting Access Control Cards or Key Tags

To delete an Access Control Card or Key Tag that is enrolled in the system, scroll down to the particular “Card Number” menu item, and then press the ‘ # ‘ (#=DEL) key.

CARD 1 NUMBER:
095 13564 #=DEL ↑

You will first be prompted to confirm deletion:

DELETE CARD 1?
0=NO 1=YES

Deleting an Access Control Card or Key Tag will take it out of the system and it will not be valid any longer. You may choose to delete a card if it has been lost, stolen, or not returned.

Enabling and Disabling Access Control Cards or Key Tags

When an Access Control Card or Key Tag is enrolled into the system, by default it is enabled. This means that the Access Control Card or Key Tag may be used if it is valid for the current time of day and day of week.

The Access Control Card or Key Tag may be temporarily disabled so that it can not be used at any Access Control Reader. An Access Control Card or Key Tag may be temporarily disabled if it was misplaced.

CARD 1 ENABLED: 1
0=NO 1=YES ↑↓

Select 0 (NO) to disable the selected Access Card or Key Tag. Select 1 (YES) to enable the selected Access Card or Key Tag.

Assign Access Control Cards and Key Tags to Specific Access Control Readers

Each Access Control Card or Key Tag can be assigned to 1 or more Access Control Readers. When an Access Control Card or Key Tag is assigned to specific readers, the user only has access at the assigned readers.

Users do not have access to any reader in which their Access Control Card or Key Tag is not assigned. If a user presents their Access Control Card or Key Tag at a reader in which their Access Control Card or Key Tag is not assigned, the reader does not give any indication that a card was presented and a card “declined” event is generated in the system event log.

```
CARD 1 READERS:
1234567890123456 0=CLR ↑
```

By default, each configured Access Control Card or Key Tag is valid at all 16 readers. Each valid Access Control Reader is represented by a single digit number. Starting at the left, 1-9 are Access Control Readers 1-9 respectively, 0 is Access Control Reader 10, and 1-6 (that appear after 0) are Access Control Readers 11-16 respectively.

To add or remove an Access Control Reader from the list of valid readers, enter the reader number followed by the ‘ # ‘ key. Note: for Access Control Readers 10-16, enter the two-digit reader number followed by the ‘ # ‘ key.

If the selected Access Control Card or Key Tag is to be valid at only a few Access Control Readers, you may first clear all Access Control Readers from the list. To clear all Access Control Readers from the list, enter 0 followed by the ‘ # ‘ key. You may then add the Access Control Readers that are to be valid.

```
CARD 1 READERS:
1-345----- 0=CLR ↑
```

When all of the valid Access Control Readers have been entered, press the ‘ # ‘ key to store the new settings in memory.

Log Access Control Card and Key Tag Activity

Each Access Control Card or Key Tag that is enrolled in the system can be configured to log activity whenever the card is presented at a reader, even if the user was denied access. When enabled, the system will log the Access Control Card Reader where the card was presented, the user that presented the card, if the card was accepted or declined, and the time and date in which the card was presented. Each time a card is presented, as long as there is a 5 second delay between each swipe, an event is generated in the system event log.

```
CARD 1 LOGGING:      1
0=NO 1=YES           ↑↓
```

Select 0 (NO) to disable logging for the selected user. Select 1 (YES) to enable logging for the selected user.

Configuring Access Control Cards or Key Tags for Arming and Disarming

Each Access Control Card or Key Tag may be configured to allow the user to arm or disarm the security system at Access Control Readers that are configured for arming and disarming.

```
CARD 1 ARM/DISARM:   1
0=NO 1=YES           ↑↓
```

When a valid card is first presented, the Access Control Card Reader will beep once and all 9 LED indicators will illuminate the color of the current security arming state for that area.

LED indicators illuminate red: The security system in the respective area is currently armed
LED indicators illuminate green: The security system in the respective area is currently disarmed

When the security system is disarmed, swiping the Access Control Card or Key Tag 3 times (each swipe within 5 seconds of the previous swipe) will cause the security system to arm to the Away mode. When the security system is armed in any security mode, swiping the Access Control Card or Key Tag 3 times (each swipe within 5 seconds of the previous swipe) will cause the security system to disarm.

Select 0 (NO) to disable or 1 (YES) to enable arming and disarming privileges for the selected user.



FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

LEVITON LIMITED WARRANTY

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that products manufactured by Leviton under the Leviton brand name ("Product") will be free from defects in material and workmanship for the time periods indicated below, whichever is shorter: • **OmniPro II and Lumina Pro:** three (3) years from installation or 42 months from manufacture date. • **Omni LTe, Omni Ile, and Lumina:** two (2) years from installation or 30 months from manufacture date. • **BitWise Controllers, Accessories:** two (2) years from installation or 30 months from manufacture date. • **Lumina Gateway Controllers:** two (2) years from installation or 30 months from manufacture date. • **Batteries:** Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. **Note:** Primary (non-rechargeable) batteries shipped in products are not warranted. **Products with Windows® Operating Systems:** During the warranty period, Leviton will restore corrupted operating systems to factory default at no charge, provided that the product has been used as originally intended. Installation of non-Leviton software or modification of the operating system voids this warranty. Leviton's obligation under this Limited Warranty is limited to the repair or replacement, at Leviton's option, of Product that fails due to defect in material or workmanship. Leviton reserves the right to replace product under this Limited Warranty with new or remanufactured product. **Leviton will not be responsible for labor costs of removal or reinstallation of Product.** The repaired or replaced product is then warranted under the terms of this Limited Warranty for the remainder of the Limited Warranty time period or ninety (90) days, whichever is longer. This Limited Warranty does not cover PC-based software products. **Leviton is not responsible for conditions or applications beyond Leviton's control. Leviton is not responsible for issues related to improper installation, including failure to follow written Installation and operation instructions, normal wear and tear, catastrophe, fault or negligence of the user or other problems external to the Product.** To view complete warranty and instructions for returning product, please visit us at www.leviton.com.

COPYRIGHT AND TRADEMARK INFORMATION

This document and all its contents herein are subject to and protected by international copyright and other intellectual property rights and are the property of Leviton Manufacturing Co., Inc, its subsidiaries, affiliates and/or licensors.

Use herein of third party trademarks, service marks, trade names, brand names and/or product names are for informational purposes only, are/may be the trademarks of their respective owners; such use is not meant to imply affiliation, sponsorship, or endorsement.

No part of this document may be reproduced, transmitted or transcribed without the express written permission of Leviton Manufacturing Co., Inc.