

DIMENSIONS™

D3204 Multizone Controller/Dimmer

User Guide



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FEATURES

- Allows control of 4 local loads or additional loads with auxiliary device per Multizone Controller (incandescent, tungsten, magnetic low-voltage, Advance Transformer Mark 10™ *Powerline* fluorescent, neon, cold cathode and non-dimming)
- Auto OFF Mode
- Remote zone control capability of up to 248 zones
- Expansion of up to 30 additional D3200 Controllers
- Group and individual zone DIM/BRIGHT capability, if applicable
- Configurable fade-transition rates (0-120 seconds and up to 2 hours)
- User-friendly Wizards for easy setup/operation
- Two-line, 32 character LCD (Liquid Crystal Display)
- Create up to 32 lighting scenes
- Access any of the 32 scenes from the Programmer front panel (8 at any one time)
- Customizable zone and scene names of up to 16 characters
- Compatible with other D3200 components that interface with the LCnet system; PC based programming through D3200 Setup Software and Leviton SmartJack
- Access first 8 scenes using Leviton Hand-held IR Remote, Cat. No. NE210
- Learning mode for standard hand-held IR remote
- Automatically turn ON/OFF lights at dusk and/or dawn (astronomical clock)
- Real Time clock retains correct time, with accuracy of 15 seconds, in absence of power typically for 2 weeks
- Automatically adjusts for Daylight Savings
- Security options

For more information, refer Leviton's website at www.leviton.com/D3200

INTRODUCTION

The **Leviton Multizone Zone Controller/Dimmer, Cat. No. D3204**, provides advanced, multi-point scene control for commercial and high-end residential lighting applications. The D3204 is a user-friendly, self-contained unit that can be used to control—at one time from the front panel—up to four zones of lighting in a room or group of rooms via a series of push-buttons and “Wizard” menus. The D3204 accommodates a host of customizable settings, and features an infrared receiver for use with a hand-held remote control. Although the unit will often be used as part of a comprehensive D3200 dimming system attached via a communication bus, it may also be used solely as a dimmer attached to four loads.

A series of intuitive wizards displayed on the unit’s LCD simplifies the user interface. A number of push-buttons guide the user through the wizards, which can be used to program the Multizone Controller—as can Leviton software. The unit will normally display the selected scene’s name, date, and time in its Main Screen, and by simply pressing the applicable scene buttons, end-users can control their preprogrammed lighting. The Multizone Controller can send commands to up to 248 individual lighting loads.

The Multizone Controller provides the capability to program up to 32 customized Lighting Scenes. With scene lighting, selected lighting loads can be programmed to turn ON at desired brightness levels or OFF when required; in either a single room or a group of rooms. Lighting Scenes can be preset for home theater viewing, hall presentations, dining, entertaining and a wide range of other activities. Lighting Scenes can be easily changed at any time by pressing the applicable scene button.

DESCRIPTION

The D3204 can function in two ways: One, as a self-contained dimmer for loads directly attached to it and two, as a control unit for other remote devices (which it can also power) attached to the Leviton Control Network (LCnet) communication bus.

The Multizone Controller is designed to be customized on the job site or residence in minutes with customized zone and scene names such as “Chandelier,” “Presentation,” and so on. If the zone is local to the Multizone Controller, the zone number appears above the LED column indicating each zone’s brightness level. The “A” for auxiliary will light up to indicate that the zone is wired to the LCnet but not directly to the Multizone Controller (or the zone that the auxiliary device is controlling). During adjustment, the LCD displays the exact zone light level so that repeatable settings can be achieved. The D3204 provides eight different scene buttons; the active scene button will remain lit. Once scenes are programmed, any zone may be individually dimmed or brightened without affecting the rest of the scene. A number of other helpful push-buttons round out the functionality: Group Dim, Group Brighten, Maximum Brightness, and OFF.

The D3204 offers programming capabilities including each individual zone’s minimum level and name. Scene changes (and Auto Off, where applicable) can also be scheduled based on clock time or dawn and dusk, and can even be programmed for daily, weekly and monthly events.

As part of a much larger family of digital controls and systems, the D3204 can communicate with other LCnet control stations across its high-speed fault tolerant serial data line. This allows it to be incorporated into a system with other Dimensions 3200 Zone and Scene Controllers.

SPECIFICATIONS

Electrical

	<u>D3204-1</u>	<u>D3204-2</u>
Input:	120VAC, +/-10%, 50-60Hz	230VAC, +/-10%, 50-60Hz
Isolated Output:	24VDC @150mA	24VDC @150mA
Power Output:	1920W/VA total 1000W/VA max. per zone 1200W/VA max. per side	2400W/VA total 800W/VA max. per zone
Minimum Load:	15W	15W
Surge protection: (D3204-1 Only)	Surge Suppression for voltage surges up to 6000V and current surges up to 3000A	
Load Types:	Incandescent: Halogen/Tungsten, Magnetic Low-Voltage Transformer, Advance Transformer Mark 10™ <i>Powerline</i> Electronic Fluorescent Dimming Ballast, Neon, Cold Cathode, and non-dimming loads	

Testing/Code

Compliance: UL Listed, CSA Certified, California Title 24 (D3204-1) CE (D3204-2)

FCC Statement: (D3204-1 Only)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1) This device must not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Real Time Clock:

Accurate within 15 seconds per week, with or without power

Leap year compensation

Calculation of Sunrise and Sunset, given the correct latitude and longitude, to within 15 minutes

Environmental

Operating

Temperature: 0°C to +40°C

Software

Controller will hold memory for 20 years for:

- 32 Scenes
- 64 Time schedules

QUICK REFERENCE GUIDE

Use this section for a quick reference for an overview of the operational features of the D3204 Multizone Controller. For customizing features, please refer to the Programming/Operation section of the manual.

CALL SCENE: Used to choose which of the 32 programmed scenes are to be called or activated.

- Press a SCENE button (**refer to Figure 4**) to call or activate a programmed scene.

ADJUST ZONE LIGHT LEVEL: Used to increase or decrease the percentage of light level for selected zones.

- Press the Zone Dim/Bright buttons to increase or decrease the percentage of light level for individual zones (**refer to Figure 4**).
- Press the Dim Scene buttons to increase or decrease the percentage of light level for all zones (**refer to Figure 4**).

CHANGE SCENE BANK: Use to choose which of the 32 programmed scenes can be accessed and which SCENE buttons will control those scenes (01-08, 09-16, 17-24 and 25-32).

- Press the Function button (**refer to Figure 4**) to toggle through the Scene Banks (01-08, 09-16, 17-24 and 25-32) and then press a SCENE button to activate that bank.

PROGRAMMING SCENE: Used to program to desired scenes.

- Press and hold down a SCENE button of the scene to be programmed for approximately 8 seconds until scene button blinks to access program mode.
- Press the Dim/Bright buttons to turn lighting loads ON, OFF, or adjust percentage of lighting level to desired level (**refer to Figure 4**).
- Press SCENE button again to set scene.
- Repeat steps for additional scenes.

NOTE: For Name and Fade Rate programming, refer to program and operation of the Scene Wizard.

PAGE TO OTHER CONTROLLERS: If using multiple Multizone Controllers, use this feature to access all Multizone Controllers or auxiliary devices addressed on the network. You can then modify or adjust lighting levels previously programmed.

- Press the Page Zones button to access the desired remote panel (**refer to Figure 4**). This will page between all Included Panels programmed on the device (**refer to the Panels section**).
- If access is not allowed to other Multizone Controllers, refer to the Setup Wizard, **Step 12** to include remote panels on the network.
- When controlling a remote from a D3208 from a D3204, panel A will control the first 4 zones (1-4), and panel B will control the last 4 zones (5-8).
- When controlling a remote from a D3206 from a D3204, panel A will control the first 4 zones (1-4), and panel B will control the last 2 zones (5 & 6).

INSTALLATION INSTRUCTIONS

WARNING: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

WARNING: IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

WARNING: DO NOT CONNECT LINE VOLTAGE WIRES TO LOW-VOLTAGE TERMINALS.

WARNING: TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO THIS DEVICE AND OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A RECEPTACLE.

WARNING: USE ONLY WITH THE APPROPRIATE ADVANCE TRANSFORMER MARK 10™ *POWERLINE* 120V ELECTRONIC DIMMING BALLASTS FOR CONTROLLING THE SPECIFIC FLUORESCENT LAMPS.

CAUTION: USE WITH INCANDESCENT: (TUNGSTEN, 120V HALOGEN FIXTURES), COLD CATHODE, MAGNETIC LOW- VOLTAGE TRANSFORMER FIXTURES, OR ADVANCE TRANSFORMER MARK 10™ *POWERLINE* 120V ELECTRONIC DIMMING BALLASTS ONLY. DO NOT USE THIS PRODUCT TO CONTROL ELECTRONIC (SOLID STATE) LOW- VOLTAGE TRANSFORMERS.

OTHER CAUTIONS:

1. WHEN A MAGNETIC LOW- VOLTAGE CIRCUIT IS OPERATED AT A DIM LEVEL, WITH ALL LAMPS INOPERATIVE, EXCESS CURRENT MAY FLOW THROUGH THE TRANSFORMER. TO AVOID POSSIBLE TRANSFORMER FAILURE DUE TO OVERCURRENT, USE A TRANSFORMER THAT INCORPORATES THERMAL PROTECTION OR A FUSE AT THE PRIMARY WINDINGS.
2. WHEN USING WITH FLUORESCENT BALLASTS, BOTH LIGHTING FIXTURE AND DIMMER MUST BE PROPERLY **GROUND**ED.
3. USE THIS DEVICE ONLY WITH COPPER OR COPPER CLAD WIRE. WITH ALUMINUM WIRE USE ONLY DEVICES MARKED CO/ALR OR CU/AL.
4. DO NOT MIX LOAD TYPES ON A SINGLE ZONE (I.E, 120V TUNGSTEN AND MAGNETIC LOW-VOLTAGE).
5. DISCONNECT POWER WHEN SERVICING FIXTURES OR CHANGING LAMPS.

TO INSTALL:

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
2. Determine location for installation of the Multizone Controller.

INSTALLATION INSTRUCTIONS

3. Remove Front Door Frame assembly by gently lifting the bottom edge of the frame until it snaps off (**refer to Figure 1**). Swing the bottom edge away until the upper section is released.
4. Mount 4-gang, 2-1/2" (6.4 cm) wall box with a 4-gang raised cover in wall at desired location.

5. Line Voltage Wiring:

NOTES:

- The insulation of the Class I field wiring must be rated no less than 75°C.
- Each screw terminal is capable of holding up to two (2) 12 AWG wires.

- A. Remove 3/8" (0.95 cm) of insulation from each circuit conductor. Make sure that ends of conductors are straight.
- B. Connect conductors per WIRING DIAGRAM as follows (**refer to Figures 2 and 3**): Insert conductors under appropriate terminal clamp and tighten screws to 9 in.-lbs. of torque.

NOTE: The Multizone Controller will automatically assign zone numbers to loads based on which terminal you connect each load to. For example: connecting a bank of fixtures to the Load 1 terminal means that those fixtures will be the first Zone on that Multizone Controller. The D3204 does allow you to change these zone numbers, if you desire.

6. Low-Voltage Wiring (If LCnet wiring is required):

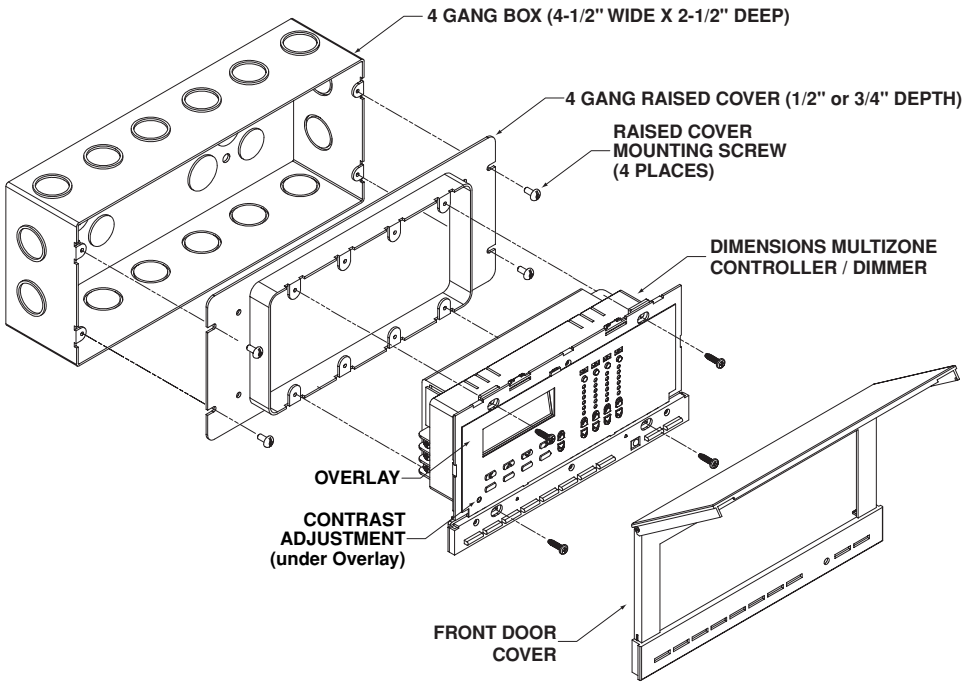
NOTES:

- If the device is the last one on the bus, the LCnet must be terminated. Use the terminating plug (included) making sure to connect shorting wire to CAN-L or you may also short the center terminal in the connector on the device to the CAN-L terminal (**refer to Figure 3**).
- LCnet must be wired using a twisted pair for the CAN_H and CAN_L wires. Leviton recommends using CAT5 wire.
- DO NOT connect the 24VDC and GND power wires together in between controllers when using multiple Multizone Controller applications.
- LCnet wires must also be dressed so they are separate from the high voltage (Class I) conductors (use included tubing). Refer to local building codes for the appropriate installation requirements for the low-voltage wiring. Jacketing over the low-voltage wires may be required to provide appropriate insulation from the high-voltage wiring.

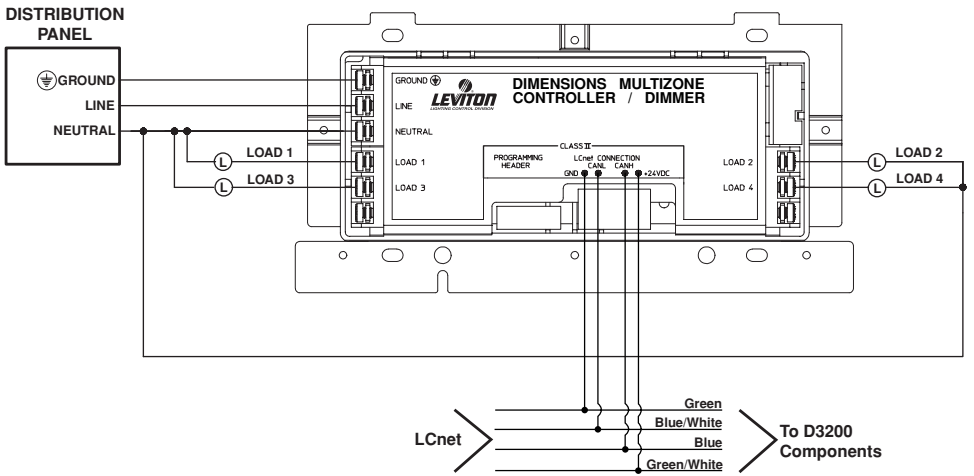
Connect leads per WIRING DIAGRAM as follows (**refer to Figure 3**): Insert each lead into appropriate plug connector location by pushing firmly. If using stranded wire, twist strands of each lead tightly (making sure that there are no stray strands) and push firmly into appropriate plug connector location. Tighten the screws on the plug connector—making sure that no bare conductor is showing. Connect plug connector to jack on the back of the Controller.

7. Carefully position all wires to provide room in wall box for Multizone Controller. Mount Controller to raised cover using the screws provided (**refer to Figure 1**).
8. Restore power at circuit breaker or fuse.
9. Check for power to the Multizone Controller by verifying that the GREEN LCD on the front of the unit is displaying the Dimensions D3200 main screen.
10. If necessary, increase or decrease the contrast of the display first, remove the overlay by gently lifting and releasing the tabs. Then, use a small Philips style screwdriver to slightly turn the adjustment until preferred contrast is achieved. To replace overlay, carefully insert lower tabs into front slots of frame and then bow overlay so that top tab slips into top slot (**refer to Figure 1**).
10. Reinstall the Front Door Frame assembly by aligning with unit. Carefully press the frame onto unit until it snaps into position. Press all edges to ensure that it is fully seated.
11. **INSTALLATION IS COMPLETE.**

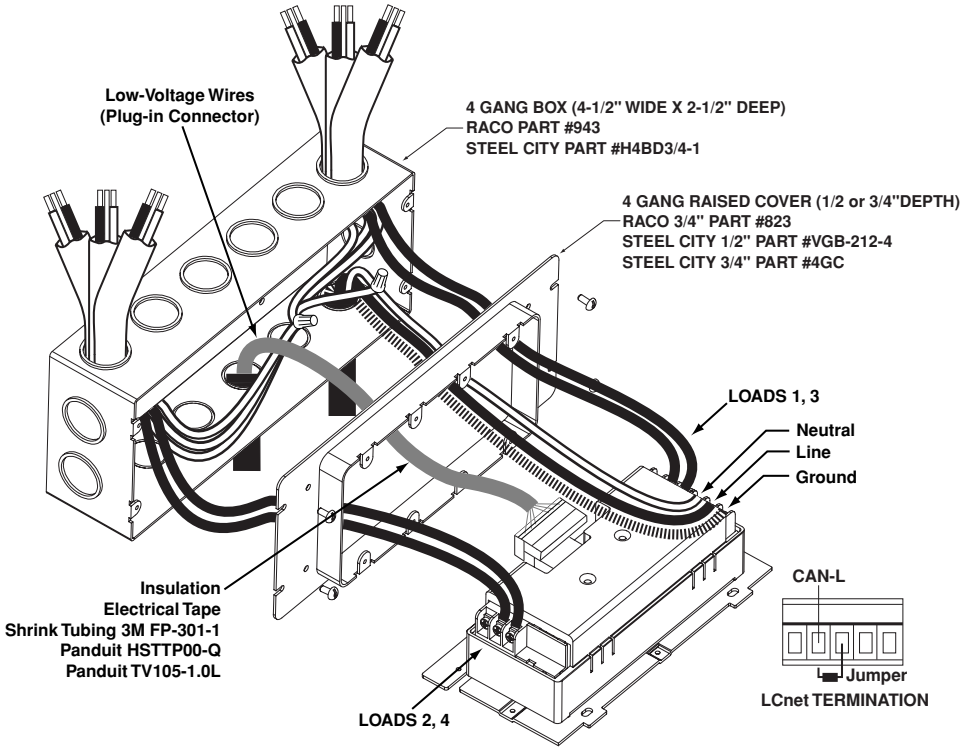
FIGURE 1 MULTIZONE CONTROLLER MOUNTING



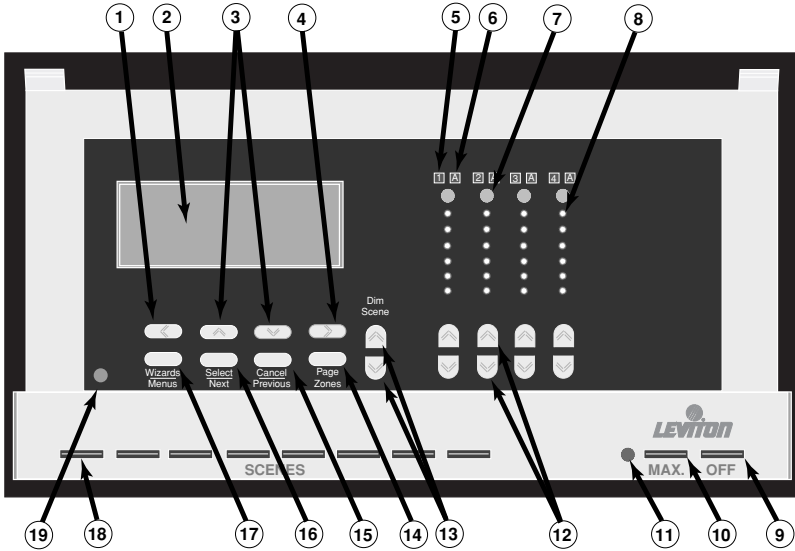
**FIGURE 2
MULTIZONE CONTROLLER WIRING DIAGRAM 1**



**FIGURE 3
MULTIZONE CONTROLLER WIRING DIAGRAM 2**



**FIGURE 4
MULTIZONE CONTROLLER USER INTERFACE**





- 1) Function/Previous Field Button (programming) / Shortcut Button (change scene bank from main screen) (Pgs. 14 and 17).
- 2) 2 Line x 16 Character Display (LCD).
- 3) Function/Change Option Button (programming) (Pgs. 14 and 17).
- 4) Function/Next Field Button (programming) / Shortcut Button (change scene bank from main screen) (Pgs. 14 and 17).
- 5) Local Zone Display 1-6.
- 6) Auxiliary Zone Display 1A-6A.
- 7) Zone Information Buttons (Pg. 14).
- 8) Zone Brightness Level.
- 9) ALL OFF Button (Pg. 14).
- 10) Maximum Bright Button (Pg. 14).
- 11) IR Receiver.
- 12) Dim/Bright Buttons (Pg. 14).
- 13) Group Dim/Bright Buttons (Pg. 14).
- 14) Zone Page Button (Pg. 14).
- 15) Cancel/Previous Button (Pgs. 14 and 17).
- 16) Select/Next Button (Pgs. 14 and 17).
- 17) Wizards/Menus Button (Pgs. 14 and 17).
- 18) Scene Programming and Recall Buttons (Pg. 14).
- 19) LCD Contrast Adjustment (under overlay).

PROGRAMMING

Control Buttons (refer to Figure 4):

With the cover closed, you can access the **SCENE PROGRAMMING/RECALL**, **MAX**, and **OFF** buttons. With the cover open, you can access the **LCD Display**, the **Wizard/Menus**, **Select/Next**, **Cancel/Previous**, **Page Zones**, **Dim Scene**, **Dim/Bright**, **Zone Info**, and **Function/Shortcut** buttons.

SCENES:	Selects a new scene to fade in. Named scenes will appear in the display (LCD) when the button is pressed (i.e., Breakfast, Lunch, or Dinner).
MAX:	Turns all Loads to maximum BRIGHT.
OFF:	Turns all Loads OFF (opens the air-gap relay).
Wizard/Menus:	Toggles between Main Screen on LCD and several programming screens (refer to Programming section).
Select/Next:	Advances programming steps.
Cancel/Previous:	Returns to previously selected screen.
Page Zones:	Toggles between local zones on current panel to remote zones on a remote panel.
Dim Scene:	One touch control for dimming or brightening of active scene.
Dim/Bright:	Allows for manual control of light level for selected zone.
Zone Info:	Displays active Panel, Zone, Group, and Light Level information.
	Used to change Scene Banks.
	Used to navigate through programming.

NOTE: The SCENE, MAX, and OFF buttons will act on a particular group. In the Basic **B** application this will not make a difference. However, in Advanced **A** applications you must ensure that programming of the scene bank is the same as the zone group.

Things to know for basic and more advanced applications:

Basic Application - The D3204 Multizone Controller can be installed solely as a dimmer to control up to 4 loads. There are programming and operating procedures that will not be applicable for this type of configuration. For ease of use, the basic programming and operating steps will be flagged with a **B** icon.

NOTE: If there is not a **B** icon next to the section, press the Select/Next button to proceed.

Advanced Application – The D3204 Multizone Controller can also be used as part of a D3200 dimming system, utilizing an LCnet communication bus. Using this type of installation will require more preparation and thought, as well as additional programming and operating steps. These steps will be flagged with an **A** icon. If using a multiple device configuration, please note the following:

- How many devices will be used in the application?

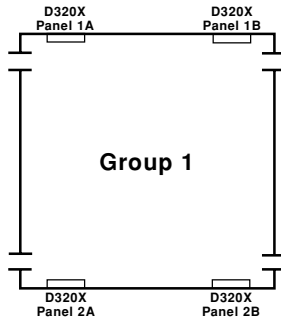
Refer to Panels Programming Section in the SETUP WIZARD for additional information.

GROUP

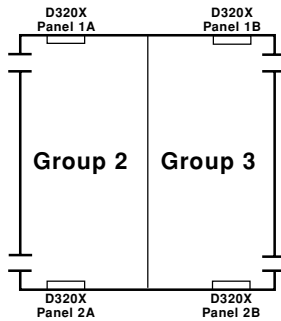
A group is a collection of zones (i.e., loads 01-04) used to light a specific area that is assigned a group number. A maximum of 64 groups may be programmed to the D3204. Each zone will belong to a group (**refer to Figure 6 for example of programming**).

FIGURE 6 GROUPING EXAMPLES

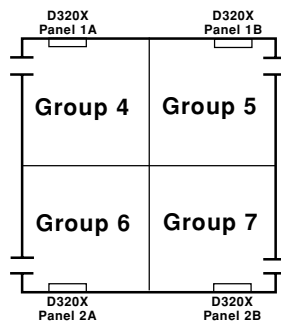
All 4 Panels operate together



Group 2 - Panels 1A and 2A operate together
Group 3 - Panels 1B and 2B operate together







All rooms and panels work independently of each other



TO PROGRAM and OPERATE:

Pressing the **Wizards** button (refer to **Figure 4**) on the front panel of the Multizone Controller will help run through the Setup and Programming necessary to set desired scene lighting levels and timed events.

NOTE: Additional Dimensions/LCnet compatible devices may have programmable features accessible in the menu tree. Refer to the Instruction Sheet for that particular device for more information.

NOTE: Use the **Function Buttons** to change characters (UP  and DOWN ) and move to the next or previous character (LEFT  and RIGHT ). Blank spaces can also be inserted to separate words when desired.

NOTE: For name editable functions, the default name will appear unless changed. If you want to revert to the default name of the function at any point, place a space in the first character position and then press the **Select/Next** button.

NOTE: Screen will time-out generally after 30 seconds of no activity and return to Main Screen. If time-out should occur, re-enter the Wizard and Menu that you were programming and press the **Select/Next** button to scroll to the screen that you were previously in.

SETUP WIZARD – The SETUP WIZARD is the first step in customizing the Multizone Controller. You can program all operational features except for Scenes, Clock and Timers. Proceed as follows:

Basic – Used to program features such as device type, sound, security, enable IR learning, set month/date and zone/panel attributes. Proceed as follows:

- B** 1. Press the **Wizards** button and then the **Up or Down** button to select the Setup Wizard. Press the **Select/Next** button to access the SETUP WIZARD.

Use ^, v or SEL
<SETUP WIZARD>

- B** 2. Press the **Select/Next** button to access the Basic screen.

Use ^, v or SEL
1> Basic

- B** 3. Press the **Up or Down** button to select the desired device Style (Architec or Decora).

Select Style
-> <Decora>

The **Architectural** setting (factory default) allows for more precise Dim/Bright control of the device. The device can be adjusted in 1% increments by tapping the Dim/Bright buttons. Press the button to turn the lights ON. Pressing and holding the button until the level reaches zero, and then tapping the button again, will turn the device OFF.

The **Decora** setting allows for quicker Dim/Bright control of the device. By tapping the Dim/Bright buttons, the device will turn OFF or turn ON to the last light level set. Pressing and holding the appropriate button will incrementally Brighten or Dim the device.

- B** Press the **Select/Next** button to save entry and proceed.

4. Press the **Up or Down** button to select the desired Beep Mode (On or Off). Press the **Select/Next** button to save entry and proceed.

Select Beep Mode
-> <Beep_On>

PROGRAMMING AND OPERATION

- B** 5. Press the **Up or Down** button to Select IR code (Default or Learning). This default setting will let the unit work with the NE210 hand-held remote control or choose the Learning IR which will activate the IR menu and allows you to program the unit to work with any standard remote control. Press select/next to save entry and proceed.

Select IR codes
-> <Learning>

- B** 6. Press the **Up or Down** button to Select Date View. This will display the date in either day/month/year (default) or month/day/year. Press select/next to save entry and proceed.

Select Date View
-> <mm/dd/yy>

- B** 7. Press the **Up or Down** button to select the desired Security mode (Lock On or Lock Off). The Lock On mode allows for the option to create a password to limit access from unauthorized personnel. If Lock On is selected, use the Scene buttons to set a 4-digit password. You will then verify password. The Lock Off mode provides full accessibility to all functional buttons. Press the **Select/Next** button to save entry and proceed.

Select Security
-> <Lock off>

- A** 8. **When using more than one D3204:**

Press the Up or Down button to select the desired Panel (01A, 1B...31A). This setting is used to give unique addresses to each Multizone Controller if using a multiple Multizone Controller configuration. Press the Select/Next button to save entry and proceed.

Select Panel: 31A
Panel 31A

NOTE: No two devices can have the same panel number on the same LCnet. This step must be performed for all devices on the LCnet.

Panel 1A or 1B is equivalent to Panel 1.

- A** 9. Press the **Up or Down** and **Left or Right** buttons to Edit Panel Name (i.e., Reception Area). Use this setting to give a user-friendly name to each used panel, if desired. Press the **Select/Next** button to save entry and proceed.

Edit Panel Name:
Panel 31A

- B** 10. Press the **Select/Next** button to Set Basic programmed and proceed.

- B** 11. Press the **Select/Next** button to continue the SETUP WIZARD.

A Panels – It is used to setup other panels that you can page to in order to control remote zones. Please note the following and proceed.

12. Press the **Up or Down** button to select the Panels screen. Press the **Select/Next** button to save entry and proceed.

Use ^, v or SEL
2> Panels

13. Press the **Up or Down** button to select the desired Scene Group (01-64) for the scene preset buttons of the device you are at. Press the **Select/Next** button to save entry and proceed.

SELECT GROUP
<01>

14. Press the **Left or Right** buttons to select between Panels (A & B) or Include/Exclude (INCL, EXCL) and the **Up or Down** buttons to make appropriate selection. This setting is used to setup which additional

PANEL 31A
PANEL: 31A <INCL>

panels are to be accessed from this panel using the Page Zones button. Press the **Select/Next** button to save entry and proceed.

NOTE: If only one Panel is installed, but programming of additional Panels has been selected and Included, the Exclude default option will set automatically.

NOTE: To control an auxiliary device from this Multizone Controller, a different panel must be setup and Included in programming.

NOTE: Each Panel must be selected and Included or Excluded individually. When using multiple Multizone Controllers, only include the panels you wish to control from this location.

NOTE: When controlling a remote D3206 or D3208, panel A will default to the first 4 zones of the remote device. Panel B will control the last 2 for the D3206 or last 4 for the D3208.

15. Press the **Up or Down** and **Left or Right** buttons to Edit Panel Name (i.e., North Wing Panel). Use this setting to give a user-friendly name to each used panel. Press the **Select/Next** button to save entry and proceed.
16. Press the **Wizards** button to save Panels programming and return to the Main Screen. Press the **Wizards** button again and then the **Up or Down** button to select the SETUP WIZARD and continue programming.
17. Press the **Select/Next** button to continue the PANEL selection.

Zones – Used to program zone information, including zone, group, channel and device type. A zone can be either a single load or a group of loads controlled as a single entity. Proceed as follows:

- B** 18. Press the **Up or Down** button to select the Zones screen. Press the **Select/Next** button to save entry and proceed.

Use ^, v or SEL
3> Zones

- B** 19. Press the **Up or Down** button to select the desired ZONE (1-6) and the **Left or Right** then the **Up or Down** buttons to select the desired PANEL (01A-31A). This setting provides the default information of Panel and Zone #'s. Press the **Select/Next** button to save entry and proceed.

PANEL: 31A ZONE:1
ZONE # 31A-1

- A** 20. Press the **Up or Down** and **Left or Right** buttons to edit Zone Name (i.e., Living Room). Use this setting to give a user-friendly name to each used zone, if desired. Press the **Select/Next** button to save entry and proceed.

PANEL: 31A ZONE:1
ZONE # 31A-1

- A** 21. Press the **Up or Down** button to select the desired GROUP (01-64) for the selected zone. Use this setting to select the group number that the selected zone will be assigned. Press the **Select/Next** button to save entry and proceed.

SELECT GROUP: 01
ZONE# 31A-1

- A** 22. Press the **Up or Down** button to select the desired CHANNEL (1-4, X). Use this setting to change the mapping of the Channel number to the physical Load connections. Press the **Select/Next** button to save entry and proceed.

CHANNEL#: 1
ZONE# 31A-1

PROGRAMMING AND OPERATION

NOTE: Two Channels cannot be mapped to the same Channel number. You must first change the Channel to an “X”, which is a place holder (i.e., to change 1 to 4, first change the 4 to an “X”, than change the 1 to a 4. You may now change the 4 to a 1).

- B** 23. Press the **Up or Down** button to select the desired TYPE (REL, DIM). This setting is used to select either a dimming (dimmer) or a non-dimming (relay) Load. If a dimmer (DIM) type is selected, press the **Select/Next** button to save entry and proceed. If a non-dimming (REL) type is selected, press the **Select/Next** button to save entry and proceed to **Step 25**.
- SELECT TYPE: DIM**
ZONE# 31A-1
- B** 24. Press the **Up or Down** button to select the desired LOAD TYPE (FLOR, INC). This setting is used to select either Incandescent, which is used for Incandescent, Magnetic Low-Voltage, Cold Cathode, Tungsten and Neon Loads or Fluorescent, which is used for Advance Transformer Mark 10™ *Powerline* Fluorescent Loads. Press the **Select/Next** button to save entry and proceed. Zone programming is now finished.
- LOAD TYPE: <INC>**
ZONE# 31A-1
- B** 25. If programming additional Zones, press the **Select/Next** button and repeat Steps 18 through 24.
- If Zone programming is complete, press the **Wizards** button to return to the Main Screen.
- NOTE:** Programming of remote zones can be done from this device.

A Aux Devices – Used to set up LCnet address auxiliary devices.

26. Press the **Up or Down** button to select the Aux Devices screen. Press the **Select/Next** button to save entry and proceed.
- Use ^, v or SEL**
4> Aux Devices
27. Press the **Up or Down** and **Left or Right** buttons to assign which panel that will control the auxiliary device. Press the **Select/Next** button to save entry and proceed.
- PANEL: 01B ZONE:1**
ZONE # 01-1
- NOTE:** The auxiliary device must have a different panel and zone than any of the D3200 controllers that are on the network.
28. SET AUXILIARY DEVICE (refer to the specific auxiliary device Instruction Sheet for details). Press the **Select/Next** button to save entry and return to the Setup Wizard.
- SET AUX DEVICE**
SEL to Continue
- NOTE:** This panel must be included on the Multizone Controller you wish to control the auxiliary device from.

A System – Used for factory representative to restore factory default settings.

B Info – Displays version of software, measures zero cross circuitry in microseconds, and temperature of sides of device.

29. Press the **Up or Down** button to select the Info screen. Press the **Select/Next** button to save entry and proceed.

Use ^, v or SEL
> Info

30. The software version will be displayed. Press the **Select/Next** button to save entry and proceed.

Dimensions D3204
Version 1.6.00

31. The top line displayed is the zero crossing in micro seconds. The bottom line displays the temperature of the right side in Celsius (R=xxx C) and left side (L=xxx C).

Period=16649 us
L=061 C R=069 C

32. Press the **Select/Next** button to save entry and return to the Setup Wizard.

B CLOCK WIZARD – Accessing and properly selecting the settings in this section is the next step in using this device. It provides basic Time and Daylight Savings settings. Proceed as follows:

NOTE: If multiple Multizone Controllers are installed on the LCnet, all units will synchronize when settings are stored from the Multizone Controller being programmed.

1. Press the **Wizards** button and then the **Up or Down** button to select the CLOCK WIZARD. Press the **Select/Next** button to access the CLOCK WIZARD .

Use ^, v or SEL
<CLOCK WIZARD>

2. Press the **Select/Next** button to access the Set Date-Time screen.

Use ^, v or SEL
> Set Date-Time

3. Press the **Select/Next** button to access the Adjust Time screen.

Adjust Time:
12:00:00 AM

4. Enter the time by pressing the **Up or Down and Left or Right** buttons. Press the **Select/Next** button to save entry and proceed.

5. Enter the date by pressing the **Up or Down and Left or Right** buttons. Press the **Select/Next** button to save entry and proceed.

Adjust Date:
01/01/02 Tu

NOTE: Date will display in format as previously programmed in Setup Wizard.

6. For Daylight Savings, press the **Up or Down** buttons to toggle between ON and OFF. Set to ON position if Daylight Savings is observed in your area. Set to the OFF position to disable setting. Press the **Select/Next** button to save entry and proceed.

Daylight Saving
Auto adjust<ON>

7. Press the **Up or Down** button to select the desired Daylight Savings Rule (United States or European Union). Press the **Select/Next** button to complete the CLOCK WIZARD programming and return to the Main Screen.

SCENE WIZARD – The SCENE WIZARD allows for the programming and operation of up to 32 lighting scenes. Naming of device and lighting scenes gives user-friendly control of lighting loads. Proceed as follows:

Call Scene – Used to choose which of the 32 programmed scenes are to be called or activated. You may also call any scene with a different fade rate than previously programmed. Proceed as follows:

NOTE: Pressing a **SCENE** button (refer to Figure 4) will also call or activate a programmed scene. In addition, pressing the function button will toggle though the Scene Banks (01-08, 09-16...25-32) and then pressing a **SCENE** button will activate that bank.

Scenes 01-08 for group 1 will have the following preset levels preprogrammed with all 4 physical loads being programmed to the same levels (factory set default):

Scene 1	10%	Scene 5	75%
Scene 2	25%	Scene 6	90%
Scene 3	40%	Scene 7	55%
Scene 4	55%	Scene 8	25%

1. Press the **Wizards** button and then the **Up or Down** button (if necessary) to select the SCENE WIZARD. Press the **Select/Next** button to access the SCENE WIZARD.

SCENE 01
Set Fade: <def>

2. Press the **Select/Next** button to access the Call Scene screen.

Use ^, v or SEL
> Call Scene

3. Press the **Up or Down** button to select the desired scene to call (01-32). Press the **Select/Next** button to save entry and proceed.

Select scene: 01
Scene 01

4. Press the **Up or Down** button to call a scene with a desired fade time (default, 0:00 seconds to 2h00m). Press the **Select/Next** button to save entry and proceed.

Use ^, v or SEL
<SCENE WIZARD>

NOTE: This fade may be different from the fade time programmed in the scene.

5. Press the **Select/Next** button to Execute Scene screen.

Program Scene – Used to program, name and set fade-transition rates to desired scenes. Proceed as follows:

1. Press the **Wizards** button and then the **Up or Down** button (if necessary) to select the SCENE WIZARD. Press the **Select/Next** button to access the SCENE WIZARD.

Use ^, v or SEL
<SCENE WIZARD>

2. Press the **Up or Down** button to select the Program Scene screen.

Use ^, v or SEL
> Program Scene

3. Press the **Select/Next** button to access the Program Scene screen.

4. Press the **Up or Down** button to select the desired Scene (1-32). Press the **Select/Next** button to save entry and proceed.

Select scene: 01
SCENE 01

5. Press the **Up or Down** and **Left or Right** buttons to Edit Scene Name (i.e., Hallway Lights). Press the **Select/Next** button to save entry and proceed.

Edit Scene Name:
SCENE 01

6. Press the **Up or Down** button to set the desired fade time (default, 0:00 seconds to 2h00m). Press the **Select/Next** button to save entry and proceed.

SCENE 01
Set Fade: <DEF>

NOTE: If you are programming the current scene, the appropriate scene button will blink.

7. Adjust the levels for each zone and press the **Select/Next** button twice or press the blinking button, if applicable, to store the scene.

Adjust Devices,
SEL to Pgm Scene

8. Repeat procedure to program additional scenes.

9. SCENE WIZARD programming is now Finished.

B Set Scene Bank – Used to setup a total of up to 32 scenes and which SCENE buttons will control what scenes (01-08, 09-16...25-32). Proceed as follows:

1. Press the **Wizards** button and then the **Up or Down** button (if necessary) to select the SCENE WIZARD. Press the **Select/Next** button to access the SCENE WIZARD.

Use ^, v or SEL
<SCENE WIZARD>

2. Press the **Up or Down** button to select the Set Scene Bank screen.

Use ^, v or SEL
>Set Scene Bank

3. Press the **Select/Next** button to access the Set Scene Bank screen.

4. Press the **Up or Down** button to select the desired Scene Bank (01-08...25-32). Press the **Select/Next** button to save entry and proceed.

SCENE BANK
<01-08>

5. Press the **Select/Next** button once to return to the SCENE WIZARD screen or press the **Select/Next** button and then the **Wizards** button to return to the Main Screen.

A Set Scene Group – Scene calls made from the Multizone Controller (Menu or Scene Buttons 1-8) are made for the group chosen here. Proceed as follows:

1. Press the **Wizards** button and then the **Up or Down** button (if necessary) to select the SCENE WIZARD. Press the **Select/Next** button to access the SCENE WIZARD.

Use ^, v or SEL
<SCENE WIZARD>

2. Press the **Up or Down** button to select the Set Scene Group screen.

Use ^, v or SEL
>Set Scene Group

3. Press the **Select/Next** button to access the Set Scene Group screen.

4. Press the **Up or Down** button to select the desired Scene Group (01-64). Press the **Select/Next** button to save entry and proceed.

SELECT GROUP
<01>

5. Press the **Select/Next** button once to return to the SCENE WIZARD screen or press the **Select/Next** button and then the **Wizards** button to return to the Main Screen.

A Scene Lock – Used to lock out or enable Scene and Dim/Bright buttons:

1. Press the **Wizards** button and then the **Up or Down** button (if necessary) to select the SCENE WIZARD. Press the **Select/Next** button to access the SCENE WIZARD.

Use ^, v or SEL
<SCENE WIZARD>

2. Press the **Up or Down** button to select the Scene Lock screen.

Use ^, v or SEL
>Scene Lock

3. Press the **Select/Next** button to access the Scene Lock screen.

4. Press the **Up or Down** button to set Scene Lock to ON or OFF. Press the **Select/Next** button to save entry and proceed.

Scene Group: 01
Scene Lock <ON>

5. Press the **Select/Next** button once to return to the SCENE WIZARD screen or press the **Select/Next** button and then the **Wizards** button to return to the Main Screen.

A Exclude Zones – Used to remove a particular zone or zones from executing in a programmed scene. Proceed as follows:

1. Press the **Wizards** button and then the **Up or Down** button (if necessary) to select the SCENE WIZARD. Press the **Select/Next** button to access the SCENE WIZARD.

Use ^, v or SEL
<SCENE WIZARD>

2. Press the **Up or Down** button to select the Exclude Zones screen.

Use ^, v or SEL
> Exclude Zones

3. Press the **Select/Next** button to access the Exclude Zones screen.

Select scene: 01
SCENE 1

4. Press the **Up or Down** button to select the desired scene to where you want to exclude zones from (01-32). Press the **Select/Next** button to save entry and proceed.

5. Press the **Up or Down** and **Left or Right** button to set the desired zone to Exclude. Press the **Select/Next** button to save entry and proceed.

PANEL: 01A ZONE:1
ZONE # 01A-1

6. Press the **Select/Next** button to Exclude zone.

Press SEL
to Exclude Zone

7. Repeat Step 5 and 6 to exclude additional zones or press the Cancel/Previous button to proceed and return to the Main Screen.

A ZONE WIZARD – The ZONE WIZARD programming provides settings for minimal levels and the option to lock and unlock individual zones. Proceed as follows:

Adjust Minimum – Used to program the minimum lighting levels for specific Loads. Proceed as follows:

1. Press the **Wizards** button and then the **Up or Down** button to select the Zone Wizard. Press the **Select/Next** button to access the Zone Wizard.

Use ^, v or SEL
<ZONE WIZARD>

2. Press the **Select/Next** button to access the Adjust Min Level screen.

Use ^, v or SEL
>Adjust Minimum

3. **For Dimmers Only**, press the **Up or Down** buttons or the Dim/Bright buttons to set the individual zone minimum light levels.

Adjust Zones'
Minimum Levels

NOTE: DO NOT use the Dim Scene buttons to make this adjustment.

4. Press the **Select/Next** button to save entry and proceed.

Minimum Adjusted
Press SEL

5. Press the **Select/Next** button to return the ZONE WIZARD screen.

ALock/Unlock – Used to program the locking or unlocking of individual zones. Locked zones will stay at set level unless unlocked. Proceed as follows:

6. Press the **Select/Next** button to access the ZONE WIZARD.

Use ^, v or SEL
<ZONE WIZARD>

7. Press the **Up or Down** buttons to select the Lock/Unlock screen.

Use ^, v or SEL
>Lock/Unlock

8. Press the **Select/Next** button to access the Lock/Unlock screen.

9. Press the **Left or Right** buttons to select the Panel and the **Up or Down** buttons to select the desired Zone (1-4) to lock or unlock.

PANEL: 01A ZONE:1
ZONE # 01A-1

NOTE: If a zone is locked, press the **Select/Next** button to unlock

Zone # 01-1
Local: 1 Unlock?

10. Repeat procedure for programming of additional zones.

Zone Unlocked!
SEL to Continue

11. The ZONE WIZARD is now finished.

12. Press the **Wizards** button to return the Main Screen.

ATIMER WIZARD – The Timer Wizard allows for the programming of up to 64 events. Timers can trigger either a SCENE, MAX, OFF or Auto OFF (Start and Stop) commands. Completion of the Wizard will enable preferred events to be activated. Proceed as follows:

Timers – Used to program Timer information, including schedules, astronomical settings, scenes triggered, and Auto OFF (when applicable). Proceed as follows:

1. Press the **Wizards** button and then the **Up or Down** button to select the TIMER WIZARD. Press the **Select/Next** button to access the TIMER WIZARD.

Use ^, v or SEL
<TIMER WIZARD>

2. Press the **Select/Next** button to access the Timers menu. This setting is used to setup the programming commands for selected Timers.

Use ^, v or SEL
>Timers

NOTES:

- If no Timers have been previously programmed or if you want to add a new Timer, proceed to Step **3A**.
- If you want to modify an existing Timer, proceed to Step **3B**.

3A.To Setup a New Timer (if there are existing Timers programmed, press the Up button to select the Add New Timer screen):

Press the **Select/Next** button to access the Add New Timer screen. Proceed to **Step 4**.

Add New Timer
Press SEL to Add

3B.To Modify an existing Timer: Press the **Select/Next** button to access the programmed Timer screen. Press the **Down** button to scroll through the existing Timers. Press the **Select/Next** button to select the desired Timer to modify. Proceed as follows:

NEW TIMER
T:01 DW:SMTWTFSH

4. Press the **Up or Down** and **Left or Right** buttons to Edit Timer Name (i.e., Porch Light). Press the **Select/Next** button to save entry and proceed.

Edit Name:
New Timer

5A.Press the **Up or Down** buttons to select the desired Timer Type (Daily, WeekDays, Weekends, Holidays, Weekly). Press the **Select/Next** button to save entry and proceed.

Sel Timer Type
<Daily>

NOTE: If Weekly is selected, you must select the desired day of the week and proceed to **Step 5B**. All other selections, proceed to **Step 6A**.

NOTE: Weekly = Sunday through Saturday individually
Weekdays = Monday through Friday, inclusive
Daily = Everyday

5B.Press the **Up or Down** buttons to select the desired Day of Week (Sunday-Saturday, Holiday. Press the **Select/Next** button to save entry and proceed.

Select Day of Week:
<Sunday>

6A.Press the **Up or Down** buttons to select the desired Time Type (Time of Day, Dawn–offset, Dawn+offset, Dusk–offset, Dusk+offset). The Offset setting is used to add (+) or subtract (-) an entered time based on the dawn/dusk calculated from the Controller. Press the **Select/Next** button to save entry and proceed.

Select Time Type
<Dusk-offset>

NOTE: If Time of Day is selected, you must select the desired time and proceed to **Step 6B**.

If any other time is selected, press the **Select/Next** button and proceed to **Step 6C** to set Offset time.

6B.Press the **Up or Down** and **Left or Right** buttons to set the New Timer's time (i.e., 01:00 AM). Press the **Select/Next** button to save entry and proceed.

New Timer
T:01 12:00 AM

6C.Press the **Up or Down** and **Left or Right** buttons to select the desired Offset time (i.e., -02:00). Press the **Select/Next** button to save entry and proceed.

New Timer
T:01 -2:00 PM

7. Press the **Up or Down** buttons to select the desired Action (SCENE 01-32, MAX, OFF, Auto OFF Start, and Auto OFF Stop, where applicable). Press the **Select/Next** button to save entry and proceed.

Select Action
<SCENE 01>

8. Press the **Up or Down** buttons to select the Timer Status (DELETE, ENABLE, DISABLE). Press the **Select/Next** button to save entry and proceed.

NEW TIMER
STATUS: <ENABLE>

9. Repeat procedure for setting up additional Timers.

10. Press the **Select/Next** button to return the TIMER WIZARD screen.

NOTE: For Auto OFF applications, a “Start Time” will start the Auto OFF sequence and a “Stop Time” will stop the Auto OFF sequence.

NOTE: If Auto Start OFF is programmed, be sure to program Auto OFF Start.

Holiday – Used to setup a timed Holiday schedule.

11. Press the **Select/Next** button to access the TIMER WIZARD.

Use ^, v or SEL
<TIMER WIZARD>

12. Press the **Up or Down** buttons to select the Holiday screen.

Use ^, v or SEL
>Holiday

13. Press the **Select/Next** button to access the Holiday menu.

NOTES:

- If no Holidays have been previously programmed or you want to add a new Holiday, proceed to Step 14A.
- If you want to modify an existing Holiday, proceed to Step 14B.

14A.To Setup a New Holiday (if there are existing Holidays programmed, press the Up button to select the Add New Holiday screen):

Press the **Select/Next** button to access the Add New Holiday screen. Proceed to **Step 22**.

14B.To Modify an existing Holiday: Press the **Select/Next** button to access the programmed Holiday screen. Press the **Down** button to scroll through the existing Holidays. Press the **Select/Next** button to select the desired Holiday to modify. Proceed as follows:

Add New Holiday
Press SEL to Add

New Holiday
T:01 D:3/28

15. Press the **Up or Down** and **Left or Right** buttons to Edit Holiday Name (i.e., New Years Day). Press the **Select/Next** button to save entry and proceed.

Edit Name:
New Holiday

16. Press the **Up or Down** and **Left or Right** buttons to Edit Holiday Date (i.e., 01/02, this is month and day). Press the **Select/Next** button to save entry and proceed.

NEW HOLIDAY
Edit Date: 3/28

17. Press the **Up or Down** buttons to select the Holiday Status (DELETE, ENABLE, DISABLE). Press the **Select/Next** button to save entry and proceed.

NEW HOLIDAY
STATUS: <ENABLE>

18. Repeat procedure for setting up additional holidays.

19. The TIMER WIZARD is now finished. Press the **Wizards** button to return the Main Screen.

Location Setup – The Multizone Controller will calculate the dawn/dusk times based on the Latitude/Longitude selected.

20. Press the **Select/Next** button to access the TIMER WIZARD. Use ^, v or SEL
<TIMER WIZARD>
21. Press the **Up or Down** buttons to select the Location Setup screen. Use ^, v or SEL
>Location Setup
22. Press the **Select/Next** button to access the Location Setup menu.
23. Press the **Up or Down** buttons to select the desired Time Zone. Press the **Select/Next** button to save entry and proceed. Select Time Zone
<EASTERN Stndrd>
24. Press the **Up or Down** buttons to select the appropriate Longitude for your location (**refer to the Appendix—to find appropriate settings for your location—and the Longitude/Latitude Chart**). Enter Longitude
West> 000 Deg
25. Press the **Up or Down** buttons to select the appropriate Latitude for your location **refer to the Appendix—to find appropriate settings for your location—and the Longitude/Latitude Chart**). Enter Latitude
North> 000 Deg
26. Location Setup is now Finished. Location Setup
Finished!

Timer Status – Allows for the Enabling, Disabling, or Deletion of all set Timers.

27. Press the **Select/Next** button to access the TIMER WIZARD. Use ^, v or SEL
<TIMER WIZARD>
28. Press the **Up or Down** buttons to select the Timer Status screen. Use ^, v or SEL
> Timers Status
29. Press the **Select/Next** button to access the Timer Status menu. Select Status
<All Delete>
30. Press the **Up or Down** buttons to select the desired Timer Status (All Enable, All Disable, or All Delete). Press the **Select/Next** button to save entry and proceed. Are you sure ?
SEL to confirm
31. Timer Status setup is now Finished.

Next Time Event – Displays the next event of the day, if programmed.

32. Press the **Select/Next** button to access the TIMER WIZARD. Use ^, v or SEL
<TIMER WIZARD>

33. Press the **Up or Down** buttons to select the Next Time Event screen.
34. Press the **Select/Next** button to view the Next Time Event menu.
35. Press the **Select/Next** button to save entry and proceed.

Use ^ , v or SEL
> Next Time Event

No Timers for Today

Auto OFF – Auto OFF is an energy savings feature where the lights will automatically turn OFF after a warning blink to maximum, unless a Scene, or Zone Dim/Bright button is pressed to override this feature. If an override happens, the unit will again sweep the loads OFF after a user defined time interval (of up to 2 hours) has elapsed. This sequence will continue until the Auto OFF Stop time, which is programmed in the Timers menu. For the Enabling or Disabling of the Auto OFF feature and programming of time intervals, proceed as follows:

36. Press the **Select/Next** button to access the TIMER WIZARD.
37. Press the **Up or Down** buttons to select the Auto OFF screen.
38. Press the **Select/Next** button to access the Auto OFF Status menu.
39. Press the **Up or Down** buttons to select the desired Auto setting (Enable, Disable, Time Interval). Press the **Select/Next** button to save entry and proceed.
40. Press the **Select/Next** button to access the TIMER WIZARD menu.
41. Press the **Up or Down** buttons to select the Auto OFF screen.
42. Press the **Left or Right** buttons to select the Set Interval screen.
43. Press the **Select/Next** button to access the Set Interval menu.
44. Press the **Up or Down** buttons to select the duration, in ten minute intervals, between the Sweep OFF of the loads. Press the **Select/Next** button to save entry and proceed.
45. Auto OFF setup is now Finished.

Use ^ , v or SEL
<TIMER WIZARD>

Use ^ , v or SEL
> Auto OFF

Use ^ , v or SEL
> Enable/Disable

Time Clock Sweep
<Enable>

Use ^ , v or SEL
<TIMER WIZARD>

Use ^ , v or SEL
> Auto OFF

Use ^ , v or SEL
> Set Interval

Sweep Interval
Time: 0h 10m

AIR WIZARD – The IR WIZARD allows for the programming and remote control of up to 32 lighting scenes, as well as MAX, OFF and GROUP DIM/ BRIGHT using any standard IR Remote.

NOTE: Learning IR option must be programmed in SETUP WIZARD in order to access this IR WIZARD.

NOTE: No matter what IR Remote is used, each IR button must still be programmed individually. The standard IR Remote must be 38KHz type remote.

NOTE: To change an existing IR code, you must first remove that code and reprogram.

1. Press the **Wizards** button and then the **Up or Down** button to select the IR WIZARD. Press the **Select/Next** button to access the IR WIZARD.

Use ^, v or SEL
<IR WIZARD>

2. Press the **Select/Next** button to access the Learn IR screen. This setting is used to setup the programming commands for desired scenes.

Use ^, v or SEL
> Learn IR

3. Press the **Up or Down** button to select the desired Action (SCENE 01-32, DIM, BRIGHT, OFF, MAX, REMOVE ALL). Press the **Select/Next** button to save entry and proceed.

Select Action:
<SCENE 01>

4. Point the IR Remote at the Multizone Controller and press the button you wish to teach the command.

Press IR Button
Code: 0000 C:000

5. Press the selected button on the IR again to verify programming.

NOTE: If there is ambient IR noise, you may have to press and hold the IR button multiple times for the signal to be verified correctly.

6. Press the **Select/Next** button to save entry and proceed.
7. Repeat procedure for additional command learning.

Removing IR learned commands –

8. Press the **Wizards** button and then the **Up or Down** button to select the IR WIZARD. Press the **Select/Next** button to access the IR WIZARD.

Use ^, v or SEL
<IR WIZARD>

9. Press the **Up or Down** button to select the Delete IR screen. This setting is used to remove the programming commands for sets scenes.

Use ^, v or SEL
> Delete IR

10. Press the **Select/Next** button to access the Delete IR screen.

Select to Remove
<REMOVE_ALL>

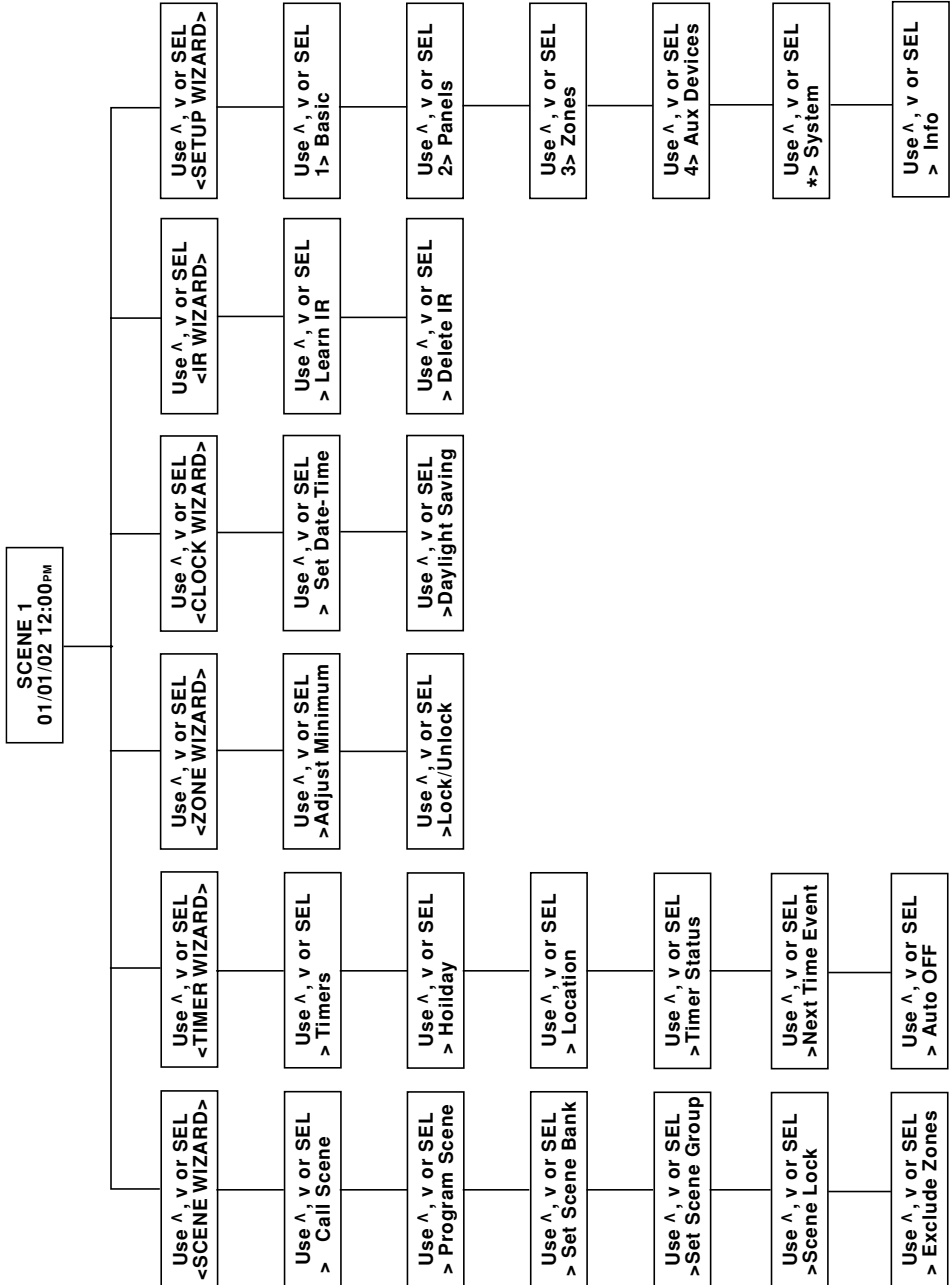
11. Press the **Up or Down** button to select the desired Action to Remove (SCENE 01-32, DIM, BRIGHT, OFF, MAX, REMOVE ALL). Press the **Select/Next** button to save entry and proceed.

12. Press the **Select/Next** button to remove the selected Action. Press the **Select/Next** button to save entry and proceed.
13. Repeat procedure for removal of additional commands.
14. Press the **Wizards** button to return the Main Screen.

Code Removed

HIGH LEVEL MENU TREE

NOTE: This sequence shows the order in which each menu will appear when scrolling through the menus using the Down Function Button.



TESTING AND TROUBLESHOOTING

Every D3204 unit local operations should be separately tested. That means checking that power, dimming control, scene control, and if applicable, the infrared receiver is working properly. You can either test a single function one controller at a time or you may find it easier to run through each test on a single controller before moving to the next controller, if installed (less walking around). In either case, you can skip to the next (headlined) test once the unit has passed the test at hand. If a unit does not pass a test, run through the bulleted suggestions that follow it. Don't forget to redo the test when you think you may have found the problem to verify that the problem has been solved.

TESTING EACH D3204 CONTROLLER

BEFORE YOU START: Before you can test anything you must first restore power at the circuit breaker or fuse.

Power:

1. Check for power to EACH Multizone Controller by verifying that the LCD on the front of each unit turns ON. If all are, THE D3204 HAS PASSED THE TEST.



IF NOTHING ILLUMINATES there may be a problem with the power.

2. Check that the unit is wired correctly.

IF THE LCD IS HARD TO READ:

3. Remove the overlay by gently lifting and releasing the tabs.
4. Use a small screwdriver to turn the potentiometer slightly, until the desired look is achieved.
5. Replace the overlay by carefully inserting lower tabs into front slots of frame, then bow overlay so that top tab slips into top slot.

Dimming Control:

1. Verify that each zone DIMS and BRIGHTENS and turns ON and OFF as expected (and that the LCD displays the proper light level) by pushing the UP  or DOWN  arrows. If the lights and the contents of the LCD window adjust appropriately, the D3204 HAS PASSED THE TEST.

IF THE LIGHTS DO NOT RESPOND AS EXPECTED:

- Push the Zone Info button and make sure that the screen displays the correct load type for each zone on the bottom left-hand corner of the screen.
ZI = incandescent ZF = fluorescent ZR = for relay, non-dimming load
If the load types are incorrect, reprogram them.
- Push the Zone Info button and if the bottom Wizard line reads "LOCKED," unlock it via the Lock/Unlock screen in the Zone Wizard.

- Make sure the lamps are not burned out. If any are, replace them.
- Refer to Wiring Diagrams for correct wiring.
- IF THE LIGHTS REMAIN AT FULL BRIGHTNESS NO MATTER WHAT YOU PUSH there must be a short.
- Before you replace the D3204 with a new one, make sure that the Loads you plan on attaching to the D3204 are within the limits rated by the device. The D3204 unit is rated for the following maximum capacity:

D3204-1

1920W/VA per unit, 1000W/VA per zone, and 1200W/VA per side. Adding power extenders can increase this capacity.

D3204-2

2400W/VA per unit, 800W/VA per zone. Adding power extenders can increase this capacity.

- You should also check that you have adequate voltage surge suppression for these lines. Inadequate protection may cause shorts.

Scene Control:

1. Check each scene by pushing each Scene Button and verifying (a) that the LCD displays the right scene name and (b) that the loads adjust to the right levels. If the lights adjust appropriately, the D3204 HAS PASSED THE TEST.

IF THE SCENE DOES NOT LOOK RIGHT:

2. Look at the LCD when you push the Scene Button and make sure the scene is not locked. If it reads "LOCKED", unlock it via the Scene Lock screen within the Scene Wizard.
3. Verify the Fade Time. It could be set for such a long time that your adjustment will happen too slowly. This can be checked and reprogrammed in the Scene Wizard.

Infrared Receiver:

Check this only with Multizone Controllers to be used with a remote control.

No matter which remote you use, a Dimensions NE210 or any other standard remote, it must be programmed to each controller you want it to work with.

- Verify that the programmed buttons on the remote work as intended by pushing each one.
- If the remote is unresponsive, make sure the batteries are good and installed correctly.
- If that is not the problem, reprogram the IR codes.

TESTING D3204'S NETWORKED TOGETHER

Do these tests only if you have multiple D3204's working together via LCnet wiring.

NOTE: No two devices can have the same panel number on the same LCnet.

Scene Control:

You should perform this test as long as you require all controllers to have the ability to work as one group.

1. First make sure all attached devices are in a single group.
2. Press a scene button and make sure that the other D3204's go to that same scene. The same scene button should light up on each unit. If this works as expected, the D3204 HAS PASSED THE TEST.

If they are not behaving as a single unit:

- Press the scene button again and check to see if the scene is locked. If it reads "LOCKED," unlock it via the Scene Lock screen within the Scene Wizard.
- Press each active Zone Info button to check to see if any zones are locked. If any are locked, unlock them via the Lock/Unlock screen in the Zone Wizard.
- Ensure that they are in the same group (**refer to page 15**).
- Check the LCnet Wiring Diagram.

Remote D3204 Access:

If you have programmed any of the D3204's to remotely control the loads attached to other D3204's on the same LCnet you should test that this is functioning properly. Run through this test for any D3204 that you have programmed for remote access to other Zone Controllers.

Go to each controller you have programmed for remote access and:

1. Press the Page Zones button and select the first panel for remote access. As soon the panel number is "selected" you should notice that the zone LED's shift from displaying their local zones to the zone information and light levels of the loads attached to the remote D3204 just selected.
2. Press group dim or brighten to verify that the lights wired to the correct remote panel actually dim or brighten. If they do not.
 - Reprogram the D3204 you are at using the Setup Wizard.
 - If this does not work, check the LCnet Wiring Diagram.

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>	<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
ALABAMA			ALABAMA		
Alexander City	33° N	86° W	Downey	34° N	118° W
Anniston AP	34° N	86° W	El Cajon	33° N	117° W
Auburn	33° N	85° W	El Cerrito AP (S)	33° N	116° W
Birmingham AP	34° N	87° W	Escondido	33° N	117° W
Decatur	35° N	87° W	Eureka/Arcata AP	41° N	124° W
Dothan AP	31° N	85° W	Fairfield-Trafis AFB	38° N	122° W
Florence AP	35° N	88° W	Fresno AP (S)	37° N	120° W
Gadsden	34° N	86° W	Hamilton AFB	38° N	122° W
Huntsville AP	35° N	87° W	Laguna Beach	34° N	118° W
Mobile AP	31° N	88° W	Livermore	38° N	122° W
Mobile Co	31° N	88° W	Lompoc, Vandenberg AFB	35° N	121° W
Montgomery AP	32° N	86° W	Long Beach AP	34° N	118° W
Selma-Craig AFB	32° N	88° W	Los Angeles AP (S)	34° N	118° W
Talladega	33° N	86° W	Los Angeles CO (S)	34° N	118° W
Tuscaloosa AP	33° N	88° W	Merced-Castle AFB	37° N	121° W
ALASKA			Modesto	38° N	121° W
Anchorage AP	61° N	150° W	Monterey	37° N	122° W
Barrow (S)	71° N	157° W	Napa	38° N	122° W
Fairbanks AP (S)	65° N	148° W	Needles AP	35° N	115° W
Juneau AP	58° N	135° W	Oakland AP	38° N	122° W
Kodiak	58° N	152° W	Oceanside	33° N	117° W
Nome AP	64° N	165° W	Ontario	34° N	118° W
ARIZONA			Oxnard	34° N	119° W
Douglas AP	31° N	110° W	Palmdale AP	35° N	118° W
Flagstaff AP	35° N	112° W	Palm Springs	34° N	117° W
Fort Huachuca AP (S)	32° N	110° W	Pasadena	34° N	118° W
Kingman AP	35° N	114° W	Petaluma	38° N	123° W
Nogales	31° N	111° W	Pomona Co	34° N	118° W
Phoenix AP (S)	33° N	112° W	Redding AP	41° N	122° W
Prescott AP	35° N	112° W	Redlands	34° N	117° W
Tucson AP (S)	32° N	111° W	Richmond	38° N	122° W
Winslow AP	35° N	111° W	Riverside-March AFB (S)	34° N	117° W
Yuma AP	33° N	115° W	Sacramento AP	39° N	121° W
ARKANSAS			Salinas AP	37° N	122° W
Blytheville AFB	36° N	90° W	San Bernadino, Norton AFB	34° N	117° W
Camden	34° N	93° W	San Diego AP	33° N	117° W
El Dorado AP	33° N	93° W	San Fernando	34° N	118° W
Fayetteville AP	36° N	94° W	San Francisco AP	38° N	122° W
Fort Smith AP	35° N	94° W	San Francisco Co	38° N	122° W
Hot Springs	34° N	93° W	San Jose AP	37° N	122° W
Jonesboro	36° N	91° W	San Louis Obispo	35° N	121° W
Little Rock AP (S)	35° N	92° W	Santa Ana AP	34° N	118° W
Pine Bluff AP	34° N	92° W	Santa Barbara MAP	34° N	120° W
Texarkana AP	33° N	94° W	Santa Cruz	37° N	122° W
CALIFORNIA			Santa Maria AP (S)	35° N	120° W
Bakersfield AP	35° N	119° W	Santa Monica CIC	34° N	118° W
Barstow AP	35° N	117° W	Santa Paula	34° N	119° W
Blythe AP	34° N	115° W	Santa Rosa	39° N	123° W
Burbank AP	34° N	118° W	Stockton AP	38° N	121° W
Chico	40° N	122° W	Ukiah	39° N	123° W
Concord	38° N	122° W	Visalia	36° N	119° W
Covina	34° N	118° W	Yreka	42° N	123° W
Crescent City AP	42° N	125° W	Yuba City	39° N	122° W
COLORADO			COLORADO		
Bakersfield AP	35° N	119° W	Alamosa AP	37° N	106° W
Barstow AP	35° N	117° W	Boulder	40° N	105° W
Blythe AP	34° N	115° W	Colorado Springs AP	39° N	105° W
Burbank AP	34° N	118° W	Denver AP	40° N	105° W
Chico	40° N	122° W	Durango	37° N	108° W
Concord	38° N	122° W	Fort Collins	41° N	105° W
Covina	34° N	118° W			
Crescent City AP	42° N	125° W			

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>	<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
Grand Junction AP (S)	39° N	109° W	Brunswick	31° N	81° W
Greeley	40° N	105° W	Columbus, Lawson AFB	33° N	85° W
Lajunta AP	38° N	103° W	Dalton	35° N	85° W
Leadville	39° N	106° W	Dublin	32° N	83° W
Pueblo AP	38° N	104° W	Gainsville	34° N	84° W
Sterling	48° N	103° W	Griffin	33° N	84° W
Trinidad	37° N	104° W	LaGrange	33° N	85° W
			Macon AP	33° N	84° W
			Marietta, Dobbins AFB	34° N	85° W
			Savannah	32° N	81° W
			Valdosta-Moody AFB	31° N	83° W
			Waycross	31° N	82° W
CONNECTICUT			HAWAII		
Bridgeport AP	41° N	73° W	Hilo AP (S)	20° N	155° W
Hartford, Brainerd Field	42° N	73° W	Honolulu AP	21° N	158° W
New Haven AP	41° N	74° W	Kaneohe Bay MCAS	21° N	158° W
New London	41° N	72° W	Wahiawa	21° N	158° W
Norwalk	41° N	73° W			
Norwick	42° N	72° W			
Waterbury	42° N	73° W			
Windsor Locks, Bradley Fld	42° N	73° W			
DELAWARE			IDAHO		
Dover AFB	39° N	75° W	Boise AP (S)	44° N	116° W
Wilmington AP	40° N	76° W	Burley	43° N	114° W
			Coeur D'Alene AP	48° N	117° W
			Idaho Falls AP	44° N	112° W
			Lewiston AP	46° N	117° W
			Moscow	47° N	117° W
			Mountain Home AFB	43° N	116° W
			Pocatello AP	43° N	113° W
			Twin Falls AP (S)	42° N	114° W
DISTRICT OF COLUMBIA			ILLINOIS		
Andrews AFB	38° N	76° W	Aurora	42° N	88° W
Washington, National AP	39° N	77° W	Belleville, Scott AFB	39° N	90° W
			Bloomington	40° N	89° W
			Carbondale	38° N	89° W
			Champaign/Urbana	40° N	88° W
			Chicago, Midway AP	42° N	88° W
			Chicago, O'Hare AP	42° N	88° W
			Chicago Co	42° N	88° W
			Danville	40° N	88° W
			Decatur	40° N	89° W
			Dixon	42° N	89° W
			Elgin	42° N	88° W
			Freeport	42° N	90° W
			Galesburg	41° N	90° W
			Greenville	39° N	89° W
			Joliet	42° N	88° W
			Kankakee	41° N	88° W
			La Salle/Peru	41° N	89° W
			Macomb	40° N	91° W
			Moline AP	41° N	91° W
			Mt Vernon	38° N	89° W
			Peoria AP	41° N	90° W
			Quincy AP	40° N	91° W
			Rantoul, Chanute AFB	40° N	88° W
			Rockford	42° N	89° W
			Springfield AP	40° N	90° W
			Waukegan	42° N	88° W
FLORIDA					
Belle Glade	27° N	81° W			
Cape Kennedy AP	28° N	81° W			
Daytona Beach AP	29° N	81° W			
E Fort Lauderdale	26° N	80° W			
Fort Myers AP	27° N	82° W			
Fort Pierce	27° N	80° W			
Gainsville AP (S)	30° N	82° W			
Jacksonville AP	30° N	82° W			
Key West AP	25° N	82° W			
Lakeland Co (S)	28° N	82° W			
Miami AP (S)	26° N	80° W			
Miami Beach Co	26° N	80° W			
Ocala	29° N	82° W			
Orlando AP	29° N	81° W			
Panama City, Tyndall AFB	30° N	86° W			
Pensacola Co	30° N	87° W			
St. Augustine	30° N	81° W			
St. Petersburg	28° N	83° W			
Stanford	29° N	81° W			
Sarasota	27° N	83° W			
Tallahassee AP (S)	30° N	84° W			
Tampa AP (S)	28° N	83° W			
West Palm Beach AP	27° N	80° W			
GEORGIA					
Albany, Turner AFB	32° N	84° W			
Americus	32° N	84° W			
Athens	33° N	83° W			
Atlanta AP (S)	34° N	84° W			
Augusta AP	33° N	82° W			

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>	<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
INDIANA			KENTUCKY		
Anderson	40° N	86° W	Ashland	39° N	83° W
Bedford	39° N	86° W	Bowling Green AP	36° N	86° W
Bloomington	39° N	87° W	Corbin AP	37° N	84° W
Columbus, Bakalar AFB	39° N	86° W	Covington AP	39° N	85° W
Crawfordsville	40° N	87° W	Hopkinsville, Ft Campbell	37° N	88° W
Evansville AP	38° N	88° W	Lexington AP (S)	38° N	85° W
Fort Wayne AP	41° N	85° W	Louisville AP	38° N	86° W
Goshen AP	42° N	86° W	Madisonville	37° N	87° W
Hobart	42° N	87° W	Owensboro	38° N	87° W
Huntington	41° N	85° W	Paducah AP	37° N	89° W
Indianapolis AP	40° N	86° W			
Jeffersonville	38° N	86° W	LOUISIANA		
Kokomo	40° N	86° W	Alexandria AP	31° N	92° W
Lafayette	40° N	86° W	Baton Rouge AP		31° N
La Porte	42° N	87° W	91° W		
Marion	40° N	86° W	Bogalusa	31° N	90° W
Muncie	40° N	85° W	Houma	30° N	91° W
Peru, Grissom AFB	41° N	86° W	Lafayette AP	30° N	92° W
Richmond AP	40° N	85° W	Lake Charles AP (S)	30° N	93° W
Shelbyville	40° N	86° W	Minden	33° N	93° W
South Bend AP	42° N	86° W	Monroe AP	33° N	92° W
Terre Haute AP	39° N	87° W	Natchitoches	32° N	93° W
Valparaiso	42° N	87° W	New Orleans AP	30° N	90° W
Vincennes	39° N	88° W	Shreveport AP (S)	32° N	94° W
IOWA			MAINE		
Ames (S)	42° N	94° W	Augusta AP	44° N	70° W
Burlington AP	41° N	91° W	Bangor, Dow AFB	45° N	69° W
Cedar Rapids AP	42° N	92° W	Caribou AP (S)	47° N	68° W
Clinton	42° N	90° W	Lewiston	44° N	70° W
Council Bluffs	41° N	96° W	Millinocket AP	46° N	69° W
Des Moines AP	42° N	94° W	Portland (S)	44° N	70° W
Dubuque	42° N	91° W	Waterville	45° N	70° W
Fort Dodge	43° N	95° W			
Iowa City	42° N	92° W			
Keokuk	40° N	91° W			
Marshalltown	42° N	93° W			
Mason City AP	43° N	93° W			
Newton	42° N	93° W			
Ottumwa AP	41° N	92° W			
Sioux City AP	42° N	96° W			
Waterloo	43° N	92° W			
KANSAS			MARYLAND		
Atchison	40° N	95° W	Baltimore AP	39° N	77° W
Chanute AP	38° N	95° W	Baltimore Co	39° N	76° W
Dodge City AP (S)	38° N	100° W	Cumberland	40° N	79° W
El Dorado	38° N	97° W	Frederick AP	40° N	78° W
Emporia	38° N	96° W	Hagerstown	40° N	78° W
Garden City AP	38° N	101° W	Salisbury (S)	38° N	75° W
Goodland AP	39° N	102° W			
Great Bend	38° N	99° W			
Hutchinson AP	38° N	98° W			
Liberal	37° N	101° W			
Manhattan, Ft Riley (S)	39° N	97° W			
Parsons	37° N	96° W			
Russell AP	39° N	99° W			
Salina	39° N	98° W			
Topeka AP	39° N	96° W			
Wichita AP	38° N	97° W			
			MASSACHUSETTS		
			Boston AP	42° N	71° W
			Clinton	42° N	72° W
			Fall River	42° N	71° W
			Framingham	42° N	71° W
			Gloucester	43° N	71° W
			Greenfield	42° N	72° W
			Lawrence	43° N	71° W
			Lowell	43° N	71° W
			New Bedford	42° N	71° W
			Pittsfield AP	42° N	73° W
			Springfield, Westover AFB	42° N	73° W
			Taunton	42° N	71° W
			Worcester AP	42° N	72° W

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LOING</u>	Hannibal <u>STATE/CITY</u>	40° N <u>LAT</u>	91° W <u>LONG</u>
MICHIGAN					
Adrian	42° N	84° W	Jefferson City	39° N	92° W
Alpena AP	45° N	83° W	Joplin AP	37° N	94° W
Battle Creek AP	42° N	85° W	Kansas City AP	39° N	95° W
Benton Harbor AP	42° N	86° W	Kirksville AP	40° N	93° W
Detroit	42° N	83° W	Mexico	39° N	92° W
Escanaba	46° N	87° W	Moberly	39° N	92° W
Flint AP	43° N	84° W	Poplar Bluff	37° N	90° W
Grand Rapids AP	43° N	86° W	Rolla	38° N	92° W
Holland	43° N	86° W	St. Joseph AP	40° N	95° W
Jackson AP	42° N	84° W	St. Louis AP	39° N	90° W
Kalamazoo	42° N	86° W	St. Louis CO	39° N	91° W
Lansing AP	43° N	85° W	Sikeston	37° N	90° W
Marquette Co	47° N	87° W	Sedalia—Whiteman AFB	39° N	94° W
Mt Pleasant	44° N	85° W	Sikeston	37° N	90° W
Muskegon AP	43° N	86° W	Springfield AP	37° N	93° W
Pontiac	43° N	83° W			
Port Huron	43° N	82° W			
Saginaw AP	44° N	84° W			
Sault Ste. Marie AP (S)	46° N	84° W			
Traverse City AP	45° N	86° W			
Ypsilanti	42° N	84° W			
MINNESOTA			MONTANA		
Albert Lea	44° N	93° W	Billings AP	46° N	109° W
Alexandria AP	46° N	95° W	Bozeman	46° N	111° W
Bemidji AP	48° N	95° W	Butte AP	46° N	112° W
Brainerd	47° N	94° W	Cut Bank AP	49° N	112° W
Duluth AP	47° N	92° W	Glasgow AP (S)	48° N	107° W
Fairbault	44° N	93° W	Glendive	47° N	105° W
Fergus Falls	46° N	96° W	Great Falls AP (S)	47° N	111° W
International Falls AP	49° N	93° W	Havre	49° N	110° W
Mankato	44° N	93° W	Helena AP	47° N	112° W
Minneapolis/St. Paul AP	45° N	94° W	Kalispell AP	48° N	114° W
Rochester AP	44° N	92° W	Lewiston AP	47° N	109° W
St. Cloud AP (S)	46° N	94° W	Livingston AP	46° N	110° W
Virginia	47° N	92° W	Miles City AP	46° N	106° W
Willmar	45° N	93° W	Missoula AP	47° N	114° W
Winona	44° N	92° W			
MISSISSIPPI			NEBRASKA		
Biloxi—Keesler AFB	30° N	89° W	Beatrice	40° N	97° W
Clarksdale	34° N	91° W	Chadron AP	43° N	103° W
Columbus AFB	33° N	88° W	Columbus	41° N	97° W
Greenville AFB	34° N	91° W	Fremont	41° N	96° W
Greenwood	33° N	90° W	Grand Island AP	41° N	98° W
Hattiesburg	31° N	89° W	Hastings	41° N	98° W
Jackson AP	32° N	90° W	Kearney	41° N	99° W
Laurel	31° N	89° W	Lincoln Co (S)	41° N	97° W
Mccomb AP	32° N	90° W	McCook	40° N	101° W
Meridian AP	32° N	89° W	Norfolk	42° N	97° W
Natchez	32° N	91° W	North Platte AP (S)	41° N	101° W
Tupelo	34° N	89° W	Omaha AP	41° N	96° W
Vicksburg Co	32° N	91° W	Scottsbluff AP	42° N	104° W
			Sidney AP	41° N	103° W
MISSOURI			NEVADA		
Cape Girardeau	37° N	90° W	Carson City	39° N	120° W
Columbia AP (S)	92° W	39° N	Elko AP	41° N	116° W
Farmington AP	38° N	90° W	Ely AP (S)	39° N	115° W
			Las Vegas AP (S)	36° N	115° W
			Lovelock AP	40° N	119° W
			Reno AP (S)	39° N	120° W
			Reno Co	39° N	120° W
			Tonopah AP	38° N	117° W
			Winnemucca AP	41° N	118° W

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>	<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
NEW HAMPSHIRE					
Berlin	44° N	71° W	NYC-La Guardia AP	41° N	74° W
Claremont	43° N	72° W	Niagara Falls AP	43° N	80° W
Concord AP	43° N	71° W	Olean	42° N	79° W
Keene	43° N	72° W	Oneonta	43° N	75° W
Laconia	43° N	71° W	Oswego Co	43° N	77° W
Manchester, Grenier AFB	43° N	71° W	Plattsburg AFB	45° N	73° W
Portsmouth, Pease AFB	43° N	71° W	Poughkeepsie	42° N	74° W
			Rochester AP	43° N	78° W
			Rome, Griffiss AFB	43° N	75° W
			Schenectady (S)	43° N	74° W
			Suffolk County AFB	41° N	73° W
			Syracuse AP	43° N	76° W
			Utica	43° N	75° W
			Watertown	44° N	76° W
NEW JERSEY			NORTH CAROLINA		
Atlantic City CO	39° N	74° W	Asheville AP	35° N	83° W
Long Branch	40° N	74° W	Charlotte AP	35° N	81° W
Newark AP	41° N	74° W	Durham	36° N	79° W
New Brunswick	40° N	74° W	Elizabeth City AP	36° N	76° W
Paterson	41° N	74° W	Fayetteville, Pope AFB	35° N	79° W
Phillipsburg	41° N	75° W	Goldboro,Seymour-Johnson	35° N	78° W
Trenton Co	40° N	75° W	Greensboro AP (S)	36° N	80° W
Vineland	39° N	75° W	Greenville	36° N	77° W
			Henderson	36° N	78° W
			Hickory	36° N	81° W
			Jacksonville	35° N	78° W
			Lumberton	35° N	79° W
			New Bern AP	35° N	77° W
			Raleigh/Durham AP (S)	36° N	79° W
			Rocky Mount	36° N	78° W
			Wilmington AP	34° N	78° W
			Winston-Salem AP	36° N	80° W
NEW MEXICO			NORTH DAKOTA		
Holloman AFB	33° N	106° W	Bismarck AP (S)	47° N	101° W
Albuquerque AP (S)	35° N	107° W	Devils Lake	48° N	99° W
Artesia	33° N	104° W	Dickinson AP	47° N	103° W
Carlsbad AP	32° N	104° W	Fargo AP	47° N	97° W
Clovis AP	34° N	103° W	Grand Forks AP	48° N	97° W
Farmington AP	37° N	108° W	Jamestown AP	47° N	99° W
Gallup	36° N	109° W	Minot AP	48° N	101° W
Grants	35° N	108° W	Williston	48° N	104° W
Hobbs AP	33° N	103° W			
Las Cruces	32° N	107° W			
Los Alamos	36° N	106° W			
Raton AP	37° N	104° W			
Roswell, Walker AFB	33° N	105° W			
Santa Fe CO	36° N	106° W			
Silver City AP	33° N	108° W			
Socorro AP	34° N	107° W			
Tucumcari AP	35° N	104° W			
NEW YORK			OHIO		
Albany AP (S)	43° N	74° W	Akron-Canton AP	41° N	81° W
Albany Co	43° N	74° W	Ashtabula	42° N	81° W
Auburn	43° N	77° W	Athens	39° N	82° W
Batavia	43° N	78° W	Bowling Green	41° N	84° W
Binghamton AP	42° N	76° W	Cambridge	40° N	82° W
Buffalo AP	43° N	79° W	Chillicothe	39° N	83° W
Cortland	43° N	76° W	Cincinnati Co	39° N	85° W
Dunkirk	42° N	79° W	Cleveland AP (S)	41° N	82° W
Elmira AP	42° N	77° W	Columbus AP (S)	40° N	83° W
Geneva (S)	43° N	77° W	Dayton AP	40° N	84° W
Glens Falls	43° N	74° W	Defiance	41° N	84° W
Gloversville	43° N	74° W	Findlay AP	41° N	84° W
Hornell	42° N	78° W	Fremont	41° N	83° W
Ithaca (S)	42° N	76° W	Hamilton	39° N	85° W
Jamestown	42° N	79° W	Lancaster	40° N	83° W
Kingston	42° N	74° W			
Lockport	43° N	79° W			
Massena AP	45° N	75° W			
Newburgh, Stewart AFB	41° N	74° W			
NYC-Central Park (S)	41° N	74° W			
NYC-Kennedy AP	41° N	74° W			

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>	<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
Lima	41° N	84° W	Meadville	42° N	80° W
Mansfield AP	41° N	83° W	New Castle	41° N	80° W
Marion	41° N	83° W	Philadelphia AP	40° N	75° W
Middletown	40° N	84° W	Pittsburgh AP	40° N	80° W
Newark	40° N	82° W	Pittsburgh Co	40° N	80° W
Norwalk	41° N	83° W	Reading Co	40° N	76° W
Portsmouth	39° N	83° W	Scranton/Wilkes-Barre	41° N	76° W
Sandusky Co	41° N	83° W	State College (S)	41° N	78° W
Springfield	40° N	84° W	Sunbury	41° N	77° W
Steubenville	40° N	81° W	Uniontown	40° N	80° W
Toledo AP	42° N	84° W	Warren	42° N	79° W
Warren	41° N	81° W	West Chester	40° N	76° W
Wooster	41° N	82° W	Williamsport AP	41° N	77° W
Youngstown AP	41° N	81° W	York	40° N	77° W
Zanesville AP	40° N	82° W			
OKLAHOMA					
Ada	35° N	97° W	Newport (S)	41° N	71° W
Altus AFB	35° N	99° W	Providence AP	42° N	71° W
Ardmore	34° N	97° W			
Bartlesville	37° N	96° W	SOUTH CAROLINA		
Chickasha	35° N	98° W	Anderson	34° N	83° W
Enid, Vance AFB	36° N	98° W	Charleston AFB (S)	33° N	80° W
Lawton AP	35° N	98° W	Charleston Co	33° N	80° W
McAlester	35° N	96° W	Columbia AP	34° N	81° W
Muskogee AP	36° N	95° W	Florence AP	35° N	80° W
Norman	35° N	97° W	Georgetown	33° N	79° W
Oklahoma City AP (S)	35° N	98° W	Greenville AP	35° N	82° W
Ponca City	37° N	97° W	Greenwood	35° N	82° W
Seminole	35° N	97° W	Orangeburg	33° N	81° W
Stillwater (S)	36° N	97° W	Rock Hill	35° N	81° W
Tulsa AP	36° N	96° W	Spartanburg AP	35° N	82° W
Woodward	37° N	100° W	Sumter, Shaw AFB	34° N	80° W
OREGON					
Albany	45° N	123° W	SOUTH DAKOTA		
Astoria AP (S)	46° N	124° W	Aberdeen AP	45° N	98° W
Baker AP	45° N	118° W	Brookings	44° N	97° W
Bend	44° N	121° W	Huron AP	44° N	98° W
Corvallis (S)	44° N	123° W	Mitchell	44° N	98° W
Eugene AP	44° N	123° W	Pierre AP	44° N	100° W
Grants Pass	42° N	123° W	Rapid City AP (S)	44° N	103° W
Klamath Falls AP	42° N	122° W	Sioux Falls AP	44° N	97° W
Medford AP (S)	42° N	123° W	Watertown AP	45° N	97° W
Pendleton AP	46° N	119° W	Yankton	43° N	97° W
Portland AP	46° N	123° W			
Portland Co	46° N	123° W	TENNESSEE		
Roseburg AP	43° N	123° W	Athens	35° N	85° W
Salem AP	45° N	123° W	Bristol-Tri City AP	36° N	82° W
The Dalles	46° N	121° W	Chattanooga AP	35° N	85° W
			Clarksville	37° N	87° W
PENNSYLVANIA					
Allentown AP	41° N	75° W	Columbia	36° N	87° W
Altoona Co	40° N	78° W	Dyersburg	36° N	89° W
Butler	41° N	80° W	Greenville	36° N	83° W
Chambersburg	40° N	78° W	Jackson AP	36° N	89° W
Erie AP	42° N	80° W	Knoxville AP	36° N	84° W
Harrisburg AP	40° N	77° W	Memphis AP	35° N	90° W
Johnstown	40° N	79° W	Murfreesboro	35° N	86° W
Lancaster	40° N	76° W	Nashville AP (S)	36° N	87° W
			Tallahoma	35° N	86° W

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>	<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
TEXAS			VERMONT		
Abilene AP	32° N	100° W	Barre	44° N	73° W
Alice AP	28° N	98° W	Burlington AP (S)	44° N	73° W
Amarillo AP	35° N	101° W	Rutland	44° N	73° W
Austin AP	30° N	98° W			
Bay City	29° N	96° W	VIRGINIA		
Beaumont	30° N	94° W	Charlottesville	38° N	79° W
Beeville	28° N	98° W	Danville AP	37° N	79° W
Big Spring AP (S)	32° N	101° W	Fredericksburg	38° N	77° W
Brownsville AP (S)	26° N	97° W	Harrisonburg	38° N	79° W
Brownwood	32° N	99° W	Lynchburg AP	37° N	79° W
Bryan AP	31° N	97° W	Norfolk AP	37° N	76° W
Corpus Christi AP	28° N	97° W	Petersburg	37° N	78° W
Corsicana	32° N	96° W	Richmond AP	37° N	77° W
Dallas AP	33° N	97° W	Roanoke AP	37° N	80° W
Del Rio, Laughlin AFB	29° N	101° W	Staunton	38° N	79° W
Denton	33° N	97° W	Winchester	39° N	78° W
Eagle Pass	29° N	101° W			
El Paso AP (S)	32° N	106° W	WASHINGTON		
Fort Worth AP (S)	33° N	97° W	Aberdeen	47° N	124° W
Galveston AP	29° N	95° W	Bellingham AP	49° N	123° W
Greenville	33° N	96° W	Bremerton	48° N	123° W
Harlingen	26° N	98° W	Ellensburg AP	47° N	121° W
Houston AP	30° N	95° W	Everett, Paine AFB	48° N	122° W
Houston Co	30° N	95° W	Kennewick	46° N	119° W
Huntsville	31° N	96° W	Longview	46° N	123° W
Killeen, Robert Gray AAF	31° N	98° W	Moses Lake, Larson AFB	47° N	119° W
Lamesa	33° N	102° W	Olympia AP	47° N	123° W
Laredo AFB	28° N	99° W	Port Angeles	48° N	123° W
Longview	32° N	95° W	Seattle-Boeing Field	48° N	122° W
Lubbock AP	34° N	102° W	Seattle Co (S)	48° N	122° W
Lufkin AP	31° N	95° W	Seattle-Tacoma AP (S)	47° N	122° W
Mcallen	26° N	98° W	Spokane AP (S)	48° N	118° W
Midland AP (S)	32° N	102° W	Tacoma, McChord AFB	47° N	122° W
Mineral Wells AP	33° N	98° W	Walla Walla AP	46° N	118° W
Palestine Co	32° N	96° W	Wenatchee	47° N	120° W
Pampa	36° N	101° W	Yakima AP	47° N	121° W
Pecos	31° N	103° W			
Plainview	34° N	102° W	WEST VIRGINIA		
Port Arthur AP	30° N	94° W	Beckley	38° N	81° W
Goodfellow AFB	31° N	100° W	Bluefield AP	37° N	81° W
San Antonio AP (S)	30° N	98° W	Charleston AP	38° N	82° W
Sherman, Perrin AFB	34° N	97° W	Clarksburg	39° N	80° W
Snyder	33° N	101° W	Elkins AP	39° N	80° W
Temple	31° N	97° W	Huntington Co	38° N	82° W
Tyler AP	32° N	95° W	Martinsburg AP	39° N	78° W
Vernon	34° N	99° W	Morgantown AP	40° N	80° W
Victoria AP	29° N	97° W	Parkersburg Co	39° N	82° W
Waco AP	32° N	97° W	Wheeling	40° N	81° W
Wichita Falls AP	34° N	98° W			
UTAH			WISCONSIN		
Cedar City AP	38° N	113° W	Appleton	44° N	88° W
Logan	42° N	112° W	Ashland	47° N	91° W
Moab	39° N	110° W	Beloit	42° N	89° W
Ogden AP	41° N	112° W	Eau Claire AP	45° N	91° W
Price	40° N	111° W	Fond Du Lac	44° N	88° W
Provo	40° N	112° W	Green Bay AP	44° N	88° W
Richfield	39° N	112° W	La Crosse AP	44° N	91° W
St George Co	37° N	114° W			
Salt Lake City AP (S)	41° N	112° W			
Vernal AP	40° N	110° W			

APPENDIX – LATITUDE AND LONGITUDE

<u>STATE/CITY</u>	<u>LAT</u>	<u>LONG</u>
Madison AP (S)	43° N	89° W
Manitowoc	44° N	87° W
Marinette	45° N	88° W
Milwaukee AP	43° N	88° W
Racine	43° N	88° W
Sheboygan	44° N	88° W
Stevens Point	44° N	90° W
Waukesha	43° N	88° W
Wausau AP	45° N	90° W

WYOMING

Casper AP	43° N	106° W
Cheyenne	41° N	105° W
Cody AP	45° N	109° W
Evanston	41° N	111° W
Lander AP (S)	43° N	
109° W		
Laramie AP (S)	41° N	106° W
Newcastle	44° N	104° W
Rawlins	42° N	107° W
Rock Springs AP	42° N	109° W
Sheridan AP	45° N	107° W
Torrington	42° N	104° W

**For additional Time Zone information, go to Leviton's website at:
www.leviton.com/d3200**

LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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www.leviton.com/3200**

