



## Partition Controller

Cat. No. NE515

24VDC  
24mA, 0.6W

For use w/compatible Leviton LCnet products

For more information go to  
[www.leviton.com/D3200](http://www.leviton.com/D3200)

## INSTALLATION INSTRUCTIONS



DI-000-NE515-00A

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DI-000-NE515-00A

## FEATURES

- Leviton's Decora® Style design
- Each NE515 can call up to 16 configurations
- Low-Voltage for easy installation
- Gangable with 1 additional unit for selection of up to 256 configurations
- Fits standard wall box

## INTRODUCTION

The Partition Controller, Cat No. NE515, is a Decora-style device that sends commands to control combine/separate features. This allows changes of partition configurations with a touch of a button. The unit provides a unique, entry pad interface that matches Decora® style devices. The NE515 is ideal when lighting rooms with movable walls using the D3200 Systems.

## DESCRIPTION

The NE515 allows you to manipulate lighting in a room with up to four movable walls. Each button will place each D3208 Multizone Controller into the proper configuration when a wall is present or removed. After programming of D3208(s)/D3206(s) and connection to the NE515 is complete, the NE515 buttons 1 through 4 will be illuminated to indicate configuration 1 (all walls removed). Pressing a button on the NE515 will turn OFF the NE515 LED associated with that button and will illuminate the Reset button indicating a wall is present and a different lighting configuration has been implemented. Pressing the Reset button will return the system back into configuration 1 (which will illuminate buttons 1 through 4 of the NE515 to show all walls are removed).

The NE515 in conjunction with a D3208 system can be used more generally as a configuration controller where movable walls may not be utilized.

## FCC COMPLIANCE STATEMENT

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.

## 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.

**CAUTION:** DISCONNECT POWER WHEN SERVICING FIXTURE OR CHANGING LAMPS.

**CAUTION:** THE PARTITION CONTROLLER OPERATES OFF OF LOW-VOLTAGE (24VDC), SO CARE MUST BE TAKEN WHEN REPLACING A LIGHT SWITCH. CONSULT LOCAL BUILDING CODES AND REGULATIONS FOR PROPER LOW-VOLTAGE INSTALLATION.

### TO INSTALL:

- WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
- Low-Voltage Wiring:** Connect per appropriate WIRING DIAGRAM as follows: Insert each lead into appropriate Plug connector location by pushing firmly (**refer to Wiring Diagrams 1 and 2**). 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.
  - NOTES:**
    - LCnet must be wired using a twisted pair for the CAN\_H and CAN\_L wires. Leviton recommends using CAT5 wire.
    - If the device is the first or last one on the bus, the LCnet must be terminated. Use the terminating plug (included) making sure to connect shorting wire to CAN\_H or you may also short the center terminal in the connector on the device to the CAN\_H terminal (**refer to Wiring Diagrams 1 and 2**).
- Tighten the screws on the Plug connector making sure that no bare conductor shows. Connect Plug connector to Jack on the back of the Controller.
- Carefully position all wires to provide room in outlet box for Controller. Mount Controller into box with mounting screws supplied.
- Replace wallplate as follows:
  - Remove "A" tab when using standard Decora® wallplate (**refer to Figure 1**).
  - Leave "A" tabs intact when using Decora® Screwless wallplate.
- Restore power at circuit breaker or fuse. **INSTALLATION IS COMPLETE.**

## TO OPERATE

- At the desired D3208 Controller, use the programming wizards to enter the Configuration wizard and access the Comb/Separate menu.

**NOTE:** Refer to Controller instruction sheet for programming details.

- Using the UP/DOWN arrows, pick which walls you wish to be present out of the eight available walls. When selected, the NE515 will shut OFF the LED(s) of the button(s) corresponding to the wall(s) that you have just entered.

Use ^, v or SEL  
<CONFIG WIZARD>

Use ^, v or SEL  
>Comb/Separate

SEL PARTITIONS:  
>\_\_\_\_\_<

**NOTE:** The walls can also be chosen by entering a configuration number.

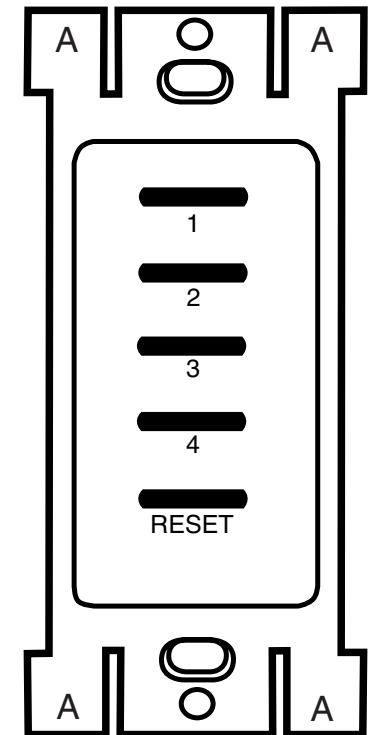
- Assign all attributes to the D3208 Controllers in the system under this configuration to combine the groups of the now joined D3200.
- With this configuration set, you can move on to set up all configurations needed.

When you want to change configurations corresponding to a wall being removed or added, simply press the button on the NE515. This will cause the corresponding NE515 button to toggle states (LED ON/OFF) and signal a change in configuration. The Reset button may also toggle state.

### NOTES:

- When using a NE515 Partition Controller, each button corresponds to its identical space, i.e. button 1 on the NE515 corresponds to space one in the combine/separate function.
- When first installed, the default configuration is #1 which corresponds to all D3208's in a common group. The D3208's will be all combined for one large area and the NE515 will have all buttons except for the reset button lit.
- The device will internally assign a configuration number based on the Configuration Matrix on page 2.:

Figure 1  
Partition Controller Function Buttons



## WALL CONFIGURATION EXAMPLES (REFER TO FIGURE AND CONFIGURATION MATRIX )

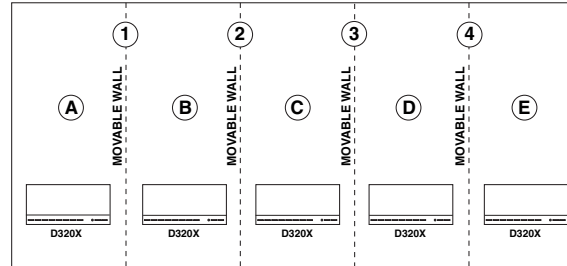
**NOTE:** The symbols (\_\_\_, 1\_\_\_, 11\_\_\_, 1\_\_1, etc.) shown in the Configuration Matrix are representative of what may be displayed on the SEL PARTITIONS: menu of the D3208. For example "Wall Addition/Removal (First 4 locations as displayed on SEL PARTITIONS menu of D3208)."

**To operate (one button pushed):**

When the wall is removed to make a bigger room, the button corresponding to the wall in place is pressed, changing the configuration to the one programmed by the user signifying the combining of the desired D3208's (refer to the "TO OPERATE" section).

**Button Lit    Config.    Wall Removed    Controllers in common group (when configuration is programmed by user):**

|          |   |        |  |
|----------|---|--------|--|
| Button 1 | 2 | Wall 1 | A + B is separated from C, which is separated from D, which is separated from E. |
| Button 2 | 3 | Wall 2 | A is separated from B + C, which is separated from D, which is separated from E. |
| Button 3 | 5 | Wall 3 | A is separated from B, which is separated from C + D which is separated from E.  |
| Button 4 | 9 | Wall 4 | A is separated from B which is separated from C which is separated from D + E.   |



**To operate (multiple buttons pushed):**

|                   |                |                      |  |
|-------------------|----------------|----------------------|--|
| <b>Button Lit</b> | <b>Config.</b> | <b>Walls removed</b> | <b>Controllers in common group (when configuration is programmed by user):</b> |
| Button 1 + 2      | 4              | Wall 1 + Wall 2      | A + B + C is separated from D which is separated from E.                       |
| Button 2 + 3      | 7              | Wall 2 + Wall 3      | A is separated from B + C + D which is separated from E.                       |

### CONFIGURATION MATRIX

#### Wall Addition/Removal (First 4 locations)

|  |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Wall Addition/Removal (Last 4 locations) | ___    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |
|  | I__    | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  |
|  | __I    | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  | 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  |
|  | ___II  | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  | 61  | 62  | 63  | 64  |
|  | __II   | 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
|  | I_II   | 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  |
|  | __III  | 97  | 98  | 99  | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 |
|  | I_III  | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 |
|  | __IIII | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |
|  | I_IIII | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
|  | __IIII | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 |
|  | I_IIII | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 |
|  | __IIII | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 |
|  | I_IIII | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 |
|  | __IIII | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
|  | I_IIII | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 |

### PROGRAMMING

When combining two NE515s in a system you now have the ability to manipulate lighting in a room with four movable walls. One of the NE515s can be used to control walls 1-4 and the other NE515 can be used to control walls 5-8. The default setting is the first 4 walls.

To switch and control the last 4 walls, proceed as follows:

1. Press and hold top and bottom (Reset) button on NE515 for 5 seconds. All LED's will blink to indicate the unit is in programming mode.
2. Go to the D3208 in the system and select the Comb/Separate menu in the Configuration Wizard.
3. Choose wall 8 to be placed and press the Select button.
4. The NE515 will illuminate the second to last bottom button (Button 4) to indicate that wall 8 has been chosen.
5. The NE515 now controls walls 5-8.
6. To re-program back to walls 1-4, go to Steps 1-3 and choose wall 1 instead of wall 8 in Step 3.

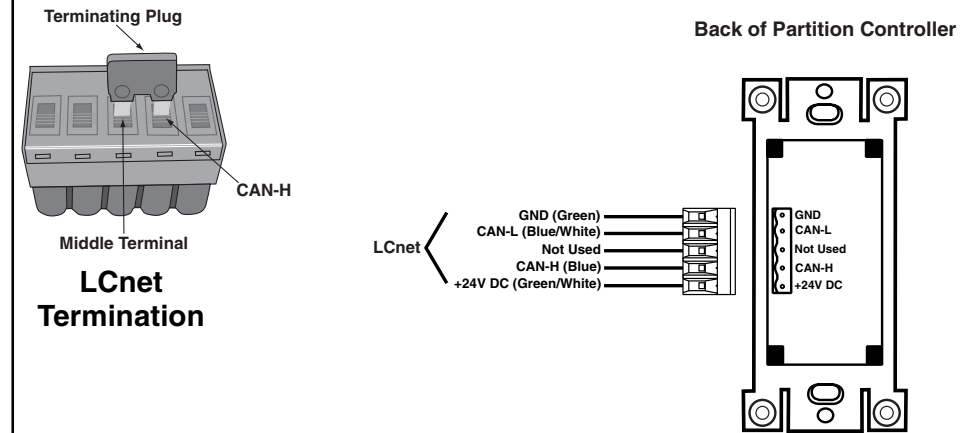
## TROUBLESHOOTING

- If NO LED's are lit; there is no power
  - Check wiring.
- Communication LED (located under face of device) does NOT light when the button is pressed
  - Check power wiring connections.
- Unable to change configurations (add/remove walls) as expected
  - Check setup of configurations in D3208.

**For Multiple Power Packs on the Bus:**

- The Controller has power (at least the OFF LED is ON) but pressing the buttons have no effect on the lights; there is no communication between the Controller and the Power Pack
  - If the communication LED does NOT flash when a button is pressed, see above.
  - If the communication LED does flash, check the address of the Power Pack and Controller (refer to **Dimming Power Pack Instructions**).

### Wiring Diagram 1 - Single Station Application



### Wiring Diagram 2 - Two Location Application

