D200 Remote Entry Stations

WARNINGS AND CAUTIONS:
• TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.
• TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODES.
• TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH SPECIFICATIONS PROVIDED BY THE MANUFACTURER.
• TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER.
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INTRODUCTION:
For best results using the Dimensions 4200 Architectural Lighting Controller, follow these recommendations:
1. Plan the system before beginning the installation.
2. Terminate the wiring.
3. Test the wiring.
4. Connect dimmer cabinets.
5. Power up the stations.
NOTE: If the lighting control fails or becomes sporadic, first check the wiring or network ID.

MINIMUM BACK BOX DIMENSIONS:
• NEMA (US) markets: 1 gang device back box, 1-1/2" deep.
• For IEC (3x3) markets: 1 gang device back box, min 35mm deep, 47mm preferred.

TERMINATING THE WIRING:
Luma-Net® III
Control Stations can be located up to 2000 ft. from the dimming cabinet. Luma-Net® is wired Daisy Chained, station to station. For applications where runs become too long a Hub must be installed. If a remote DC power supply is used and you have multiple Luma-Net® runs, all DC common wires must be joined at the power supply.

Luma-Net® Wire Recommendations
Leviton strongly recommends the use of Belden 1502R or 1502P for Luma-Net® wire runs. Other Belden cables, ex: #9829 & 9729, or RS-485 cable compliant with the specifications above, may also be used. Standard voltage drop for DC power systems can be used. Stations require a minimum of +10VDC in order to be effective. If you are not sure about any part of these instructions, consult an electrician.

For best results using the Dimensions 4200 Architectural Lighting Controller, follow these recommendations:
1. To avoid fire, shock or death: Turn off power at main circuit breaker or fuse and test that the power is off before wiring.

Wire the Phoenix Connector
1. Connect leads per wiring diagram (see Luma-Net® Wire Connections).
2. Twist strands of each lead tightly (making sure that there are no stray strands) and push firmly into appropriate plug connector location.
3. Tighten the screws on the plug connector, making sure that no bare conductor is showing.
4. Tie the drain/shield wires together and insulate using a small piece of heat shrink tubing.
5. Install termination jumpers as required. Remember a termination jumper is required at the two ends of the Luma-Net® run.
TESTING THE WIRING:
To assure problem-free start-up, it is important to check the system wiring, prior to hooking up any control stations, for proper connections, shorts and opens.

The following procedure is recommended:

**Step 1:**
Test the following wire pairs for shorts at each station location, using an ohmmeter or other continuity tester.

- 1-2 Open
- 2-3 Open
- 3-4 Open

**Step 2:**
Repair any short circuits before continuing.

**Step 3:**
Install wire jumpers to the Phoenix Connector (not supplied) on either end of the cable run between pins 3-4.

**Step 4:**
Retest each of the following wire pairs at each connector:

- 1-2 Open
- 2-3 Open
- 3-4 Open

**Step 5:**
Make any necessary repairs and remove wire jumpers before continuing.

PROGRAMMING:

**Address Entry Station** between 1 and 127. If a station address is set to Zero it will not participate on the network.

The switch is set to the binary representation of the ID number. The binary 1's column is left-most, (lever labeled "1").

The switch levers are numbered 1-8, these represent the following:

- **Lever=Value**
  - 1 = 1
  - 2 = 2
  - 3 = 4
  - 4 = 8
  - 5 = 16
  - 6 = 32
  - 7 = 64
  - 8 = 128

Add the value of each lever in the "ON" position to determine the ID number (decimal form).

**For example:**

- To set the address to 39, the following switches need to be in the "ON" position: 1, 2, 3, 6 = 1+2+4+32=39

**NOTE:**

Multiple remote entry stations of various types can be slaved to a single master station.

**To set the remote identification number, and slave it to a master D4200 station:**

1. With the station unplugged, set the remote slave station’s DIP switches to the address of the master station that it is to be slaved with.
2. With the station unplugged, press and hold the UPPER (LEFT) button. This “Init Jumper” must be continuously held during the next few steps. **NOTE:** The ceiling mounted IR stations use an “Init Jumper” located on the back between the Red LED and the Luma-Net connector. Install this jumper when programming (simulates a button press).
3. While holding the button down, power up the station by plugging it back in.
4. The Green front panel LED’s remain dark (OFF), while the Red LED on the back turns ON. The Red LED remains ON while the unit waits for 10 seconds.
5. The station will indicate that the ID has been saved/recorded by the Green front panel LED’s blinking twice and the back Red LED turning OFF, then ON, then OFF again.
6. Take your finger off of the “Init Button” (or remove the “Init Jumper” for Ceiling mounted IR stations).
7. The station can store multiple Slave IDs if the address DIP switches are changed and the “Init Button” is pressed again; in this case, the back Red LED and the front panel Green LED’s blink twice to indicate the 2nd or 3rd or 4th ... etc Slave IDs have been saved.
8. Now unplug the unit to end the Slave Node ID configuration programming. **DO NOT** unplug the unit if **additional** Slave IDs are to be programmed.
9. With the station unplugged, set the DIP switches to the desired ID number for this particular remote station (every station on the network must have its own unique station number between 1-127).
10. Power up the station by plugging it back in, and it should be ready to operate normally. When the station first powers up under operating conditions, all of the Green LED’s flash momentarily and then go off, and the back Red LED flashes rapidly until the Luma-Net network becomes stable/operational at which point the back Red LED flashes OFF/OFF briefly about once per second...sort of a heart beat/normal operation indication.
11. If you’ve made an error in programming the station’s own ID or the Slave ID, the station will flash error codes on all of the LED’s (both front panel and back). The following Error Codes are observable. The pattern is blinked and then repeated after a pause.

   - a. 1 blink of all LED’s= Station Net ID is zero or too high
   - b. 2 blinks of all LED’s= 1ST Slave ID is zero or too high
   - c. 3 blinks of all LED’s= Both Station Net ID and Slave ID are the same

**INSTALLATION:**

- Securely mount the entry station using the screws provided. If you are using a screwless snap on plate, remove the center tabs of the strap as shown in Fig. 1.

**NOTE:**

For Cat. Nos. D42P1-SOW, D42P1-SLW, and D42P4-SOW, a 35mm or preferred 47mm deep 2-tab back box is required. Refer to Fig. 2.

**Operation:**

**Operation of D42SO-00W - Sequencer**

This station can be slaved to multiple LCD stations. Once addressed and assigned to one or more LCD Master Station(s), you must program a sequenced LCD Station(s). Pressing the button toggles the sequence between “ON” and “OFF”. The LED lights when the sequencer is “ON”.

**Operation of D42ET-00W - Event Timer**

This station can be slaved to multiple LCD stations. Once addressed and assigned to one or more LCD Master Station(s), you must program a timed event in the LCD Station(s). Pressing the button toggles the Event Timer ON or OFF. The LED lights when the Event Timer is active or OFF.

**As an example,** it is 4:55PM and there is an event scheduled for 5:00PM. If you press the button on the Event Timer station and the LED turns off, you have paused the Event Timer and the 5:00PM event will not run. If at 5:00PM, you press the button and the LED lights, the Event Timer is active again. There will be no changes in the light levels.

**Operation of D42LN-KNW - Link**

This station can be slaved to multiple LCD stations. Once addressed and assigned to one or more LCD Master Station(s), you must program Personality 1 and 2 in the LCD Station(s). Pressing the button toggles the LCD stations between Personality 1 and 2. The LED lights when the station(s) are in Personality 2.

**Operation of D42LC-KW - Lock**

This station can be slaved to multiple LCD stations. Pressing the button either Locks or Unlocks the Master Stations (and the LCD’s remote stations) assigned to the Lock station. The LED lights when the stations are locked. The I/O port on the LCD station is still active when the station is locked.

**Operation of D42P1-00W, D42P1-MOW, D42P1-LRW, D42P1-SOW, D42P1-SLW, D42RL-00W, D42MO-00W, D42MO-RLW, D42P4-00W, D42P4-LRW, D42P4-SOW, D42P9-16W, D42P8-00W & D42P9-RLW - Preset Stations**

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