



Remote Control Panel Installation & Operation Guide

804CP / 808CP

WEB VERSION

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Introduction

The Leviton 804CP and 808CP represents a key part of a state of the art, total lighting control system. Combined with Leviton dimmers and optionally, a Leviton memory control console, a totally integrated system is achieved.

The 804CP and 808CP can automatically take control and preset the lighting level of up to 100 dimmer channels. Control is automatically passed between control panels and the memory control console as desired. The 804CP features 4 zone slide controls while the 808CP features 8 zone slide control. Both units are exceptionally easy to operate. Remote lockout capability is also included. Installation is a snap with the simple 4 wire digital connection required.

Important

- Programming differs from other Luma-Net® panels, please read instructions.
 - Luma-Net® control panels with software release 3.00 and higher are not directly compatible and will not operate with older 400CP panels with software prior to release 3.00. Contact dealer or factory for modifications if necessary.
 - Leviton dimming systems used with these release 3.00 panels require the following software releases:
 - 2408CD, 2408CR, 2404CD release 2.30 and above.
 - DDS 8600/8800/9600/9800 release 1.30 and above. *
 - DDS 6000 release 1.30 and above. *
 - DDS 5300/5500/5600 release 1.30 and above. *
- * Optional interface kit required for these units.

Wiring

WIRING

The 804CP and 808CP will only operate with NSI dimming and control systems explicitly designed for interfacing with it. Communication between the panels and the dimming system is via a 4 wire interface. Three wires carry the RS 422/485 bi-directional data. A fourth wire carries the DC voltage necessary for powering the unit.

Wiring cable between the panels and the dimming system is class 2 and should be at least 22 AWG, 4 conductor shielded, twisted pairs. (BELDEN 8302, 8723; 22 AWG.) Use 20 AWG for runs over 500ft.

The 804CP and 808CP may be connected to the dimming system via parallel or daisy-chained wiring. Due to power supply current demands, panels must be limited to 5 units per daisy chain run with 22 awg wire, or 10 units with 20 AWG wire.

The Luma-Net® panels feature plug on wiring terminals. The terminals may be unplugged from the panel to facilitate ease of wiring and testing. Connect the terminals marked remote+, remote-, common, and +15 VDC to the same respective terminals on the dimming system and other Luma-Net® panels. Use one twisted pair for remote+ and remote- and the other pair for common and +15 VDC.

The wiring to the remote lockout switch, if used, can be simple 2 conductor 22 AWG. Connect the wires from the switch to the lockout+ and lockout- terminals. Any panel or group of panels may be locked-out remotely by interrupting the +15V supply to the panels. This should not affect any other panels still powered, or affect lighting levels currently set.

IMPORTANT: Verify wiring is correct before powering system! Make sure nothing conductive may touch pc board or components!

MOUNTING

The 804CP and will mount in any standard double-gang electrical box, while the 808CP will mount in a large three-gang box with the 4 screws provided. See below paragraph on system turn-on before final mounting of panels.

SYSTEM TURN-ON

It is very important that the system operation be verified one panel at a time or else an improper connection at one panel would cause the entire system to not operate properly and may be difficult to diagnose.

After all terminal plugs have been wired and the dimmer system has been installed and tested, the installer is ready to connect each panel to the system. Panels may be plugged-in while system is live, but the installer must take care not to touch PC board or connections with fingers or metal objects. On daisy-chain runs, the panels closest to the dimming system should be connected first.

804CP and 808CP panels have dip switches to set network ID number and must have their ID programmed before the system power is connected. It is recommended that the installer review the programming procedures for network ID before proceeding. A duplicate network ID number will cause the entire network to malfunction.

Connect the first panel and immediately notice whether the POWER LED comes on, indicating power to the panel. The BUSY LED should come on momentarily and then go out and stay out. This indicates a successful reconfiguration of the network. If the BUSY LED flashes slowly, this indicates a duplicate ID number or wiring problem. Program the ID number, if not already, and observe the BUSY LED (Note - the busy LED also flashes quickly when the program jumper is removed).

Now test the dimmer function by operating the panel. If the dimmer responds, then mount the panel and proceed to the next panel in the system and follow the same procedure.

LEDS

The PWR LED indicates the presence of +15VDC to the panel.

The CONTROL ACTIVE green LED's indicate that the panel has control over any dimmers assigned to the respective zone and the dimmer levels have not been altered by any other panel. The LED will go out as soon as another panel changes the levels of any dimmer assigned to that particular zone.

The BUSY LED indicates the following:

Off Normal: State when there is no activity.

Short Blinks: A message is being sent on the network.

Steady on or Slow flashing: Network trying to reconfigure (bad ID?)

While programming, the following actions are normal:

Quickly flashing Programming mode, no mode selected.

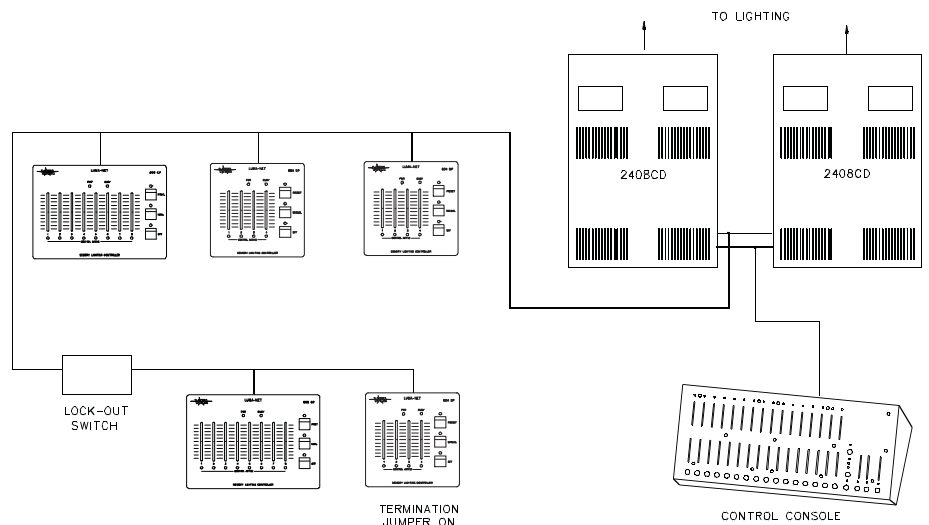
Off Programming mode, mode selected.

LOCKOUT

Any 804CP and 808CP may be disabled from operation with a remote key switch or other contact closure. Several Luma-Net® panels of the same version may be connected to the same contacts in parallel as long as polarity is maintained.

Closing the contact will prevent connected panels from operating, regardless of button presses.

Luma-Net® panels may also be locked out by causing a switch to disconnect the +15V supply to the panels.



Programming

The 804CP and the 808CP come from the factory programmed for the following, unless special factory programming

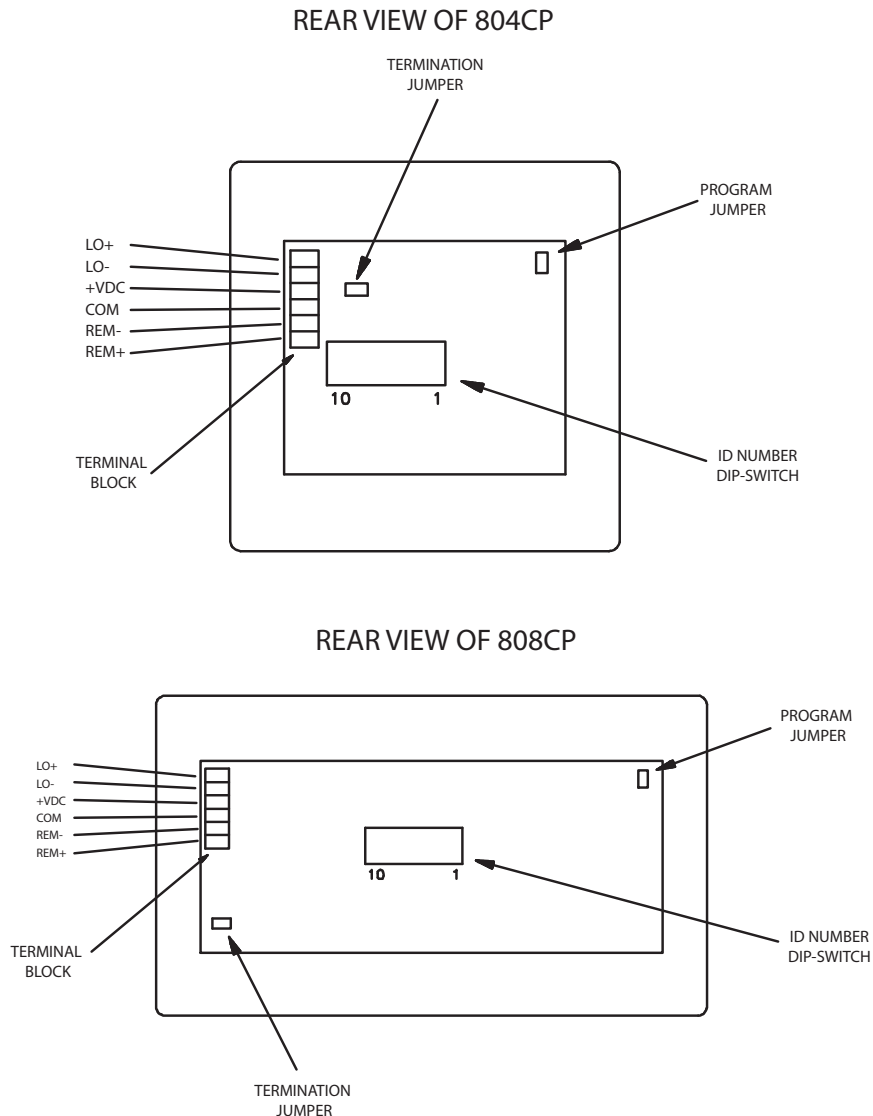
was requested:

Dimmer channels for each zone:	Zone 1-4 (1-8) = Ch 1-4 (1-8) respectively
Fade time for each zone and presets:	1 second
PRESET button levels:	Zone 1-4 (1-8) full
ALL OFF button levels:	Zone 1-4 (1-8) off

The installer may reprogram the PRESET and ALL OFF buttons easily without additional equipment. Other features such as dimmer channel assignment and fade time require a computer and software.

Details on programming other features are supplied with the Luma-Net® Software Package.

Optionally, the unit may be ordered preprogrammed from the factory.



Programming the PRESET and ALL OFF buttons:

In order to program panels, a jumper block must be removed from the program jumper pins. This will allow data to be stored in the eeprom memory. At this point the BUSY LED will start flashing, indicating that you are in the program select mode.

IMPORTANT: After programming it is important to replace the programming jumper block so memory will be protected. DO NOT press all three buttons down simultaneously while the jumper is removed, this will erase programming.

To program:

1. Make sure that the 804CP or 808CP is in the program select mode as discussed. The BUSY LED should be flashing.
2. Set the zone levels as desired using the slide controls.
3. Press the PRESET or ALL OFF button to store the new zone levels.
4. Replace the programming jumper. Test the button operation.

Network ID number

Network ID number must be set to a unique number (IMPORTANT).

Since the Luma-Net® System is a digital network, all panels and devices attached (except dimmers) must have a unique network ID number.

If two panels have the same network ID number, the entire network will stop functioning.

Panels need not be in program mode to change network ID number, since a dipswitch is used.

To set Network ID number:

1. Locate dipswitch on rear of unit as illustrated below.
2. Set the switches as per the chart on the following page.

Factory Default Setting:

The 804CP and 808CP are programmed at the factory for zone 1-4 (1-8) to be set for dimmer channel 1-4 (1-8) respectively. PRESET is programmed for dimmers 1-4 (1-8) full on. ALL OFF is programmed for dimmers 1-4 (1-8) off. The fade rate and other parameters are also set to factory defaults. This may be acceptable for initial testing. If it is necessary to return the panel to it's factory default settings (except network ID), follow this procedure:

Caution: Special factory programming will be lost.

1. Remove program jumper block and disconnect plug-in terminal block.
2. Hold down all pushbuttons while connecting terminal block.
3. Setting is complete when busy light begins to flash after several seconds.

ID number codes / dipswitch settings

ID number	12345678	ID number	12345678	ID number	12345678
0	00000000	1	10000000	2	01000000
3	11000000	4	00100000	5	10100000
6	01100000	7	11100000	8	00010000
9	10010000	10	01010000	11	11010000
12	00110000	13	10110000	14	01110000
15	11110000	16	00001000	17	10001000
18	01001000	19	11001000	20	00101000
21	10101000	22	01101000	23	11101000
24	00011000	25	10011000	26	01011000
27	11011000	28	00111000	29	10111000
30	01111000	31	11111000	32	00000100
33	10000100	34	01000100	35	11000100
36	00100100	37	10100100	38	01100100
39	11100100	40	00010100	41	10010100
42	01010100	43	11010100	44	00110100
45	10110100	46	01110100	47	11110100
48	00001100	49	10001100	50	01001100
51	11001100	52	00101100	53	10101100
54	01101100	55	11101100	56	00011100
57	10011100	58	01011100	59	11011100
60	00111100	61	10111100	62	01111100
63	11111100	64	00000010	65	10000010
66	01000010	67	11000010	68	00100010
69	10100010	70	01100010	71	11100010
72	00010010	73	10010010	74	01010010
75	11010010	76	00110010	77	10110010
78	01110010	79	11110010	80	00001010
81	10001010	82	01001010	83	11001010
84	00101010	85	10101010	86	01101010
87	11101010	88	00011010	89	10011010
90	01011010	91	11011010	92	00111010
93	10111010	94	01111010	95	11111010
96	00000110	97	10000110	98	01000110
99	11000110	100	00100110	101	10100110
102	01100110	103	11100110	104	00010110
105	10010110	106	01010110	107	11010110
108	00110110	109	10110110	110	01110110
111	11110110	112	00001110	113	10001110
114	01001110	115	11001110	116	00101110
117	10101110	118	01101110	119	11101110
120	00011110	121	10011110	122	01011110
123	11011110	124	00111110	125	10111110
126	01111110	127	11111110		

For channels 129 - 256 Set dipswitch 1-7 as above and set dipswitch #8 on.

Operation

Slide controls:

Moving a slide control will cause an immediate takecontrol of all dimmers assigned to that zone. The lighting levels will fade up or down quickly to match the slide control level, and the LED of the zone will illuminate indicating that the slider has full control (This feature may be modified through computer software wheras the MANUAL button must first be pressed to gain control).

The LED of the zone will go out when either the PRESET or ALL OFF button is pressed, or if another panel gains control of the dimmer channel assigned (A control console will not affect the LEDs).

Default dimmer assignment are : Zone 1-4 (1-8) = Dimmer Channel 1-4 (1-8).

MANUAL button:

When pressed, this button will cause all dimmer channels assigned to all zones of this panel to fade to the current settings of the slide controls. All zone LEDs will come on and the slide controls will have full control.

PRESET button:

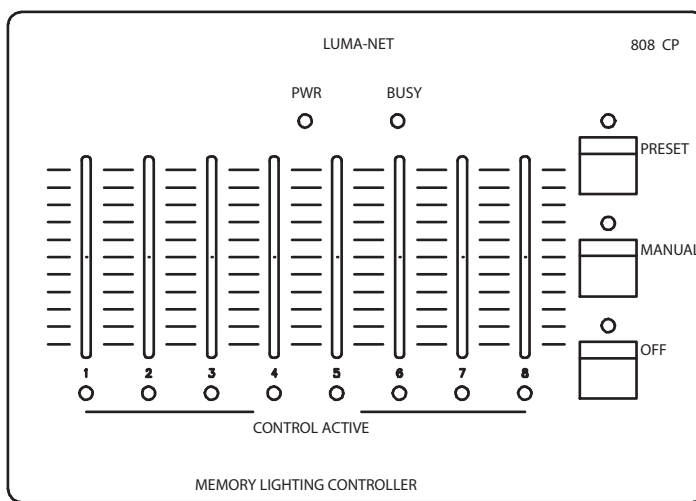
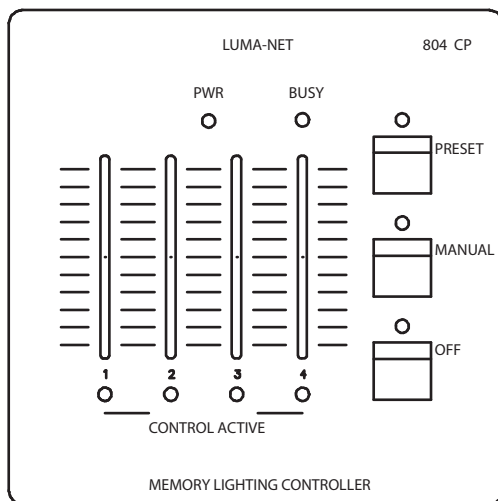
This button will cause all dimmer channels assigned to all zones of this panel to fade to the zone setting previously programmed (Default is all full on). All zone LEDs will go out.

ALL OFF button:

This button will cause all dimmer channels assigned to all zones of this panel to fade to the zone setting previously programmed (Default is all full off). All zone LEDs will go out.

To restore control from a console:

Simply perform a change in the channel level from the console. The lighting channel will then fade back to the new console level at the factory default fade rate. Once the console level matches or is moved past the lighting level, full console control will be resumed for that channel.



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FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

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. **For details visit www.leviton.com or call 1-800-824-3005.** 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.

For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) www.leviton.com