

**WARNINGS**

- TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- To avoid electrical overload, total connected lamp load shall not exceed output rating.
- This equipment permits more than one power supply output source.
- Do not mount near gas or electric heaters.

**CAUTIONS**

- Use this device with copper or copper clad wire only.
- For indoor applications only.
- Test all network cables for proper pin-out configuration prior to interconnecting devices and systems.

**Save these instructions.**

DI-001-DRDDP-00B

**INSTALLATION INSTRUCTIONS**

**ENGLISH**

**Product Description**

The branded Phase Cut Dimmer provides dimming of phase control loads, either forward or reverse phase, LumaCAN™ network connectivity, and full integration into the direct room controller system.

**Before Installation**

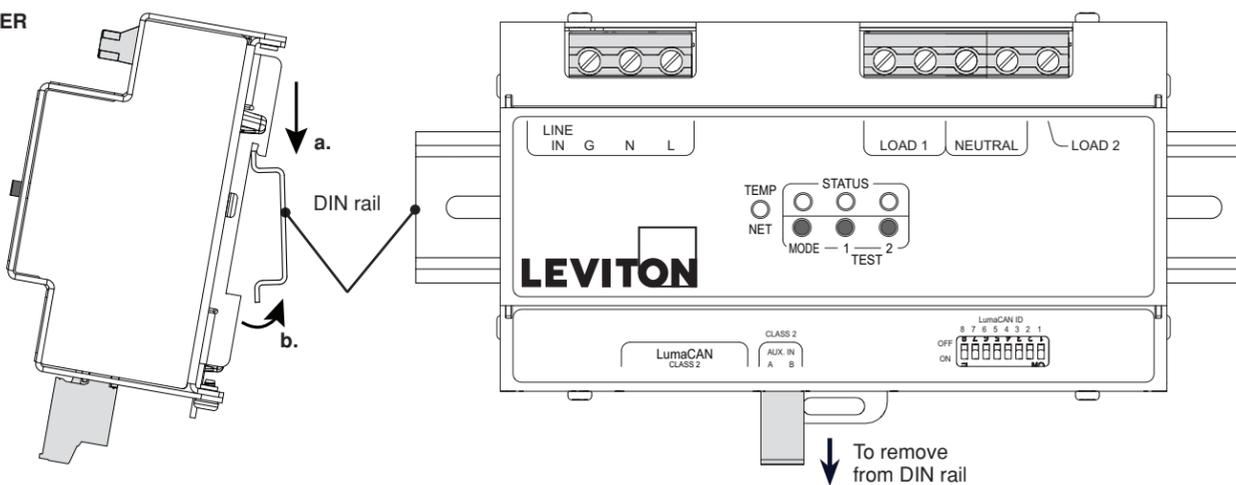
- Dimmer modules should be installed in a suitable DIN rail enclosure.
- All mains wiring should be done in accordance with local authority wiring regulations.
- Appropriate isolation shall be maintained between Line and Low Voltage cabling.
- For more information on network wiring, see the GreenMAX installation guide and training videos at [www.leviton.com](http://www.leviton.com).
- Confirm load type and amount is within product capabilities as not all load types are supported.
- Confirm channel/load requirements to plan for installation, when multiple channels are to be combined for additional current capacity, refer to AMPlify feature for details.

SPECIFICATIONS	
Catalog No.	DRDDP-A20 (1 or 2 Channel)
Input Voltage/Frequency	120-277VAC, 50/60Hz
Max Input Current	7A
<b>Load Ratings</b>	
LED, CFL, Electronic Ballast, Incandescent, Tungsten @ 120V	3.5A (420W)/Channel (See channel ganging chart for additional details)
LED, CFL, Electronic Ballast, Incandescent, Tungsten @ 277V	3.5A (970W)/Channel (See channel ganging chart for additional details)
IP Rating / Enclosure	IP20
Pollution Degree	2
Disconnection Type	Type 1
Voltage Category	4,000V
Terminal Torque Rating, Line and Low Voltage	4.4 in-lbs (0.5 Nm)
Network Connections	(2) RJ-45, CAT6 with 23AWG wire or better for connection to LumaCAN network. Termination provided via local termination plug.
Network Topology	<ul style="list-style-type: none"> <li>• Daisy Chain, 1600' Max between repeaters.</li> <li>• Home-Run topology and network length up to 10,000' can be achieved when using LumaCAN network repeaters (Leviton # NPRPT)</li> <li>• Maximum 110 nodes between repeaters</li> <li>• Maximum 250 nodes on a LumaCAN network</li> </ul>
Operating Temperature (In DIN rail cabinet)	0-60°C (32-140°F)
Storage Temperature	-40° C- 85° C (-40° F - 185° F)
Purpose of Control	Operating Control
Construction of control	Independently Mounted Control for Panel Mount

**Install**

**WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring!**

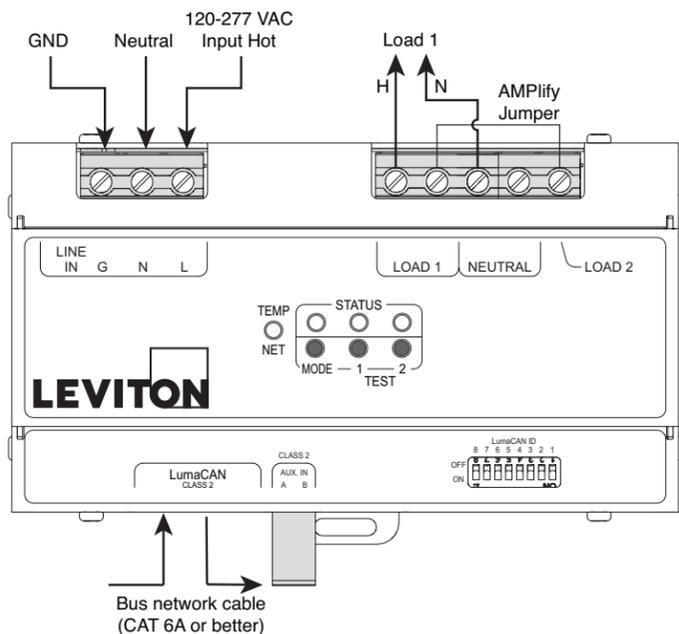
1. Mount dimmer on DIN rail.
  - a. Line top of module against the back of the cabinet and slide the module down onto rail.
  - b. Push module towards the rail.
2. Remove/add channel jumpers depending on configuration.



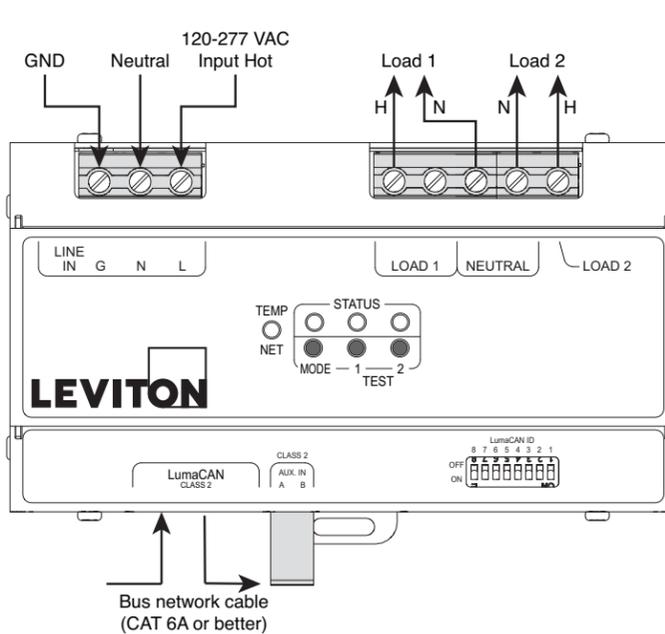
**Wire**

1. Wire "feeder" input to Line Input terminal.
2. Connect loads to Load Output terminals.
3. Connect network wiring.
4. Power up dimmer and confirm load operation using dimmer test switches. Your dimmer is now ready for network configuration. **Note:** Ensure last node on network is terminated.

**1 Channel (7A)**



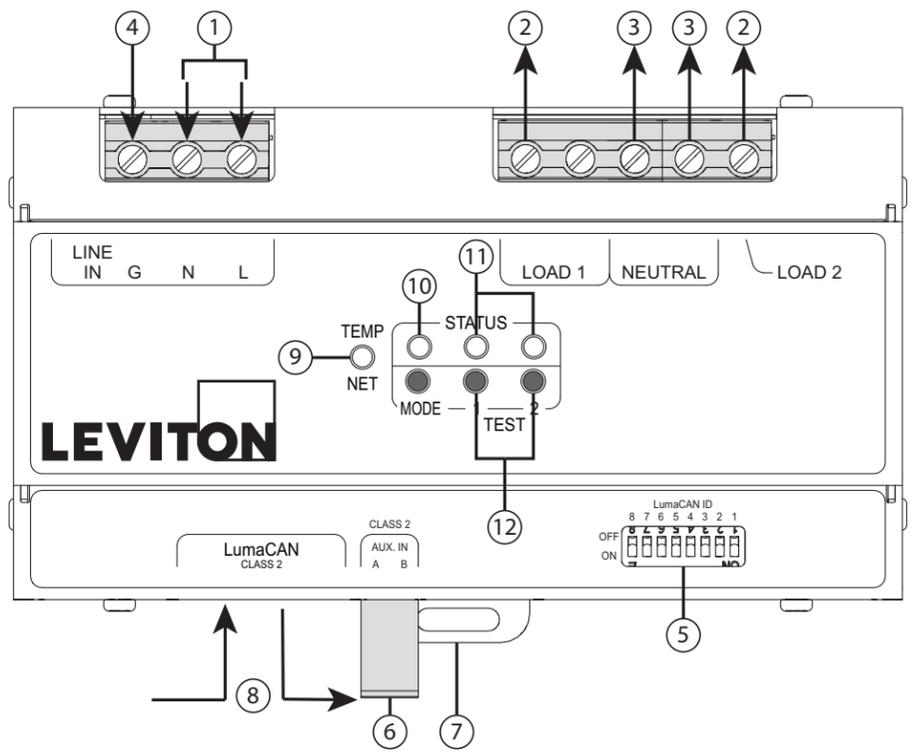
**2 Channel (3.5A)**



WEB VERSION

## Interface

- Line In and Neutral: common to all channels
- Load Out 1, 2: connects to the load for each channel
- Neutral: individual Neutral for each channel
- Earth Ground: common to all channels
- LumaCAN Address and Start Channel Assignment DIP Switches
- Aux In A and B: auxiliary active high (+24V) or dry contact input (for future use)
- DIN rail mounting clip
- LumaCAN: network input and feedthrough RJ45
- Indicator light: displays device operating temperature status
  - TEMP indicator
    - GREEN – Normal
    - AMBER – Warm
    - RED flashing – Hot
    - RED solid – Shutdown
  - NET indicator
    - Blinks during TX/RX of network data
    - Blinks GREEN upon TX/RX of LumaCAN network data
    - Blinks CYAN once every two seconds, indicating that a LumaCAN address is pending assignment
- MODE indicator and button: used to select and display device operating modes (see below)
- Channel status 1, 2: individual indicator for each channel
  - Indicator intensity follows channel level
  - Alternates from 25%->50%->100%->0%
- Channel button 1, 2: individual channel status selector



## AMPLify Feature

Two or more channels can be wired in parallel to AMPLify your load carrying capacity.

In order to use this feature:

- Jumper must be installed between channels you want to combine.
- Dimmer must be configured using either the front panel buttons or the GreenMAX DRC app when used as part of a GreenMAX DRC system.

The chart to the right indicates the configurations and operating modes which are supported:

Mode	No. of Channels	Channel 1 Capacity	Channel 2 Capacity	LED Indicators	
				1	2
1*	1	7A	Jumper to 1	ON	ON
2	2	3.5A	3.5A	OFF	ON

\* Default mode from the factory is single (1) channel mode with jumpers installed between both channels. In this mode, the dimmer operates like a single channel dimmer with max capacity of 7A. For other configuration, jumpers must be removed as per the chart on page 1.

## AMPLify Feature Mode Selection

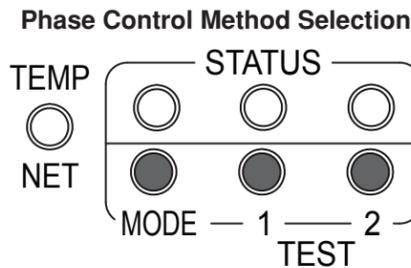
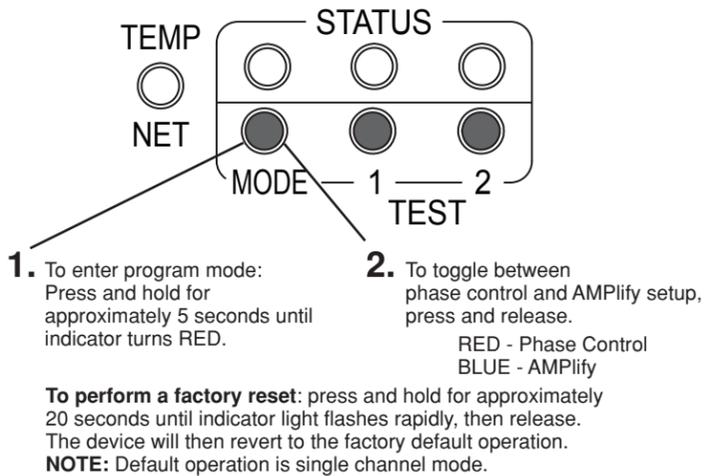
Channel indicators light up to indicate that the channel is grouped together. Press and release the channel buttons to change the grouping.

Refer to chart to see which indicator combinations correspond with each channel mode.

## Configure

Device can be programmed through the Leviton GreenMAX DRC system app when connected to a GreenMAX distributed room controller.

In applications where you are not using GreenMAX room controllers, limited configuration capability is available from the front panel of the devices.



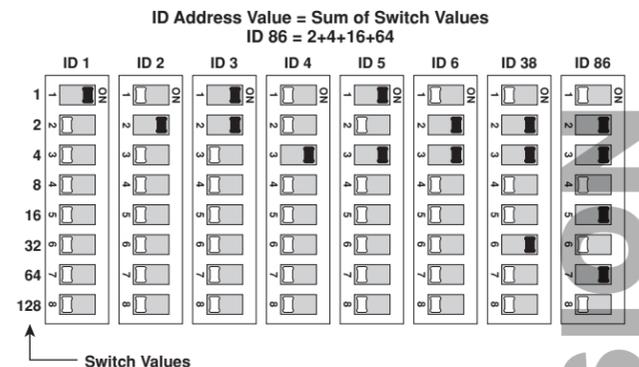
## LumaCAN Network Termination

The last node in a LumaCAN network must have the termination jumper/plug installed. The unit ships with a termination plug (P/N #LCTRM) installed into one of the RJ-45s.

- If this device is at the end of the line, the jumper shall remain installed and the network cable shall be connected to the other plug.
- If this device will be in the middle of a network run, remove the plug and save for future use.
- If the plug was removed but is at the end of the line, the termination plug must be reinstalled.

## LumaCAN Network Addressing

- All devices on a LumaCAN network require a unique address, and sensors require a unique input. This device supports auto-addressing and auto-configuration which, is the preferred method of address assignment.
- A GreenMAX DRC Room Controller (software release 1.70 or later) will assign a unique address to all devices on the network.
- For auto-addressing to work, all dip-switches must be set to OFF.
- Network status LED will blink Cyan once every two seconds indicating that LumaCAN address has not yet been assigned.
- Set DIP switches 1-8 to the desired LumaCAN address.
- A unique LumaCAN address ID must be set for each LumaCAN device. Valid node addresses are 1-250. If the node IDs are defined in your contract document, set to that address.
- If not, ensure that the ID is unique for each device in the system. It is helpful, although not required, that the location of each node ID is documented for use by Leviton field service during system commissioning.
- To set the node ID, set the DIP switches to the desired ID shown on the right.



### FCC COMPLIANCE STATEMENT:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Any changes or modifications not expressly approved by Leviton could void the user's authority to operate this equipment.

### FCC SUPPLIERS DECLARATION OF CONFORMITY:

Model DRDDP – LumaCAN Phase Cut Dimmer  
Manufactured by: Leviton Manufacturing Inc. 201 N Service Rd, Melville, NY 11747  
Phone: 800.323.8920

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

### INDUSTRY CANADA COMPLIANCE STATEMENT:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This Class A digital apparatus complies with Canadian CAN ICES-3(A)/NMB-3(A).

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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 ULC 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 5 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 five 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](http://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 five 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.