**Product Description**

Lumina RF Load Controllers are a component within a larger wireless control system. They require a compatible Room Controller for enrollment and creation of networks and ultimately to determine system functionality.

Lumina RF Devices communicate with each other, and the Room controller, via a 2.4Ghz radio on a wireless mesh network. Each line voltage powered device is a repeater to ensure the signal gets out to all parts of the network.

**Before Installation**

- Install to outside or inside of junction box or outside of luminaire.
- If mounted inside, a plastic cover must be used (metal will limit the RF signal).
- LU107 uses 0-10Vdc low voltage control wires which may be installed as Class 1 or Class 2.

**NOTE (LU107): 0-10V Control Wiring** - Connect the violet wire to the + 0-10V line and the gray wire to the 0-10V common using Class 1 or Class 2 wiring methods as indicated in these instructions, ballast(fixture/driver instructions or ballast(fixture)/driver label markings. Observe all requirements of any authority having jurisdiction with respect to wire type, sleeving, isolation methods, and the like.

**Installation**

**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 the Load Control device to junction box or luminaire through 1/2 in hole or knockout and secure with provided locknut. 

   **ATTENTION:** For LU04P, ensure the thermal pad is in contact with the metal junction box. LU04P is not to be installed in enclosed junction box.

2. Strip wires 3/4 in and connect as per wiring diagram. Ensure wires are firmly attached and there is no exposed copper.

   **a. LU107 Wiring Diagram**

   ![LU107 Wiring Diagram](image)

   ![LU04P Wiring Diagram](image)

   ![LU20S Wiring Diagram](image)

   ![LU04P Wiring Diagram](image)

3. Restore power at circuit breaker or fuse.

4. Confirm system wiring by using the test button to turn on/off the device and cycle through pre-set dimming levels. This will confirm that wiring is complete.

5. Proceed to system configuration and programming. Refer to your room controller.

**System Configuration and Programming**

1. Devices must be enrolled to a room controller for system functionality. Enrollment method/process varies by device type.

   **a. LU107, LU20S**

   Devices are in “auto-join” mode when they power up. This means they are seeking a network and will join a Room Controller when it allows them to join with no specific action required by the user. Refer to your Room Controller programming information for more details.

   If your LU107/LU20S does not join automatically, reset it to factory defaults and try again.

   **b. LU04P**

   i. Device enrollment must be triggered manually

   ii. Put your Room Controller in enrollment mode.

   iii. Press and Hold the Toggle/Reset button for 7 seconds, then release. The LED will blink amber. Press and release the button without holding. The LED will flash green and it will start seeking a network.

   iv. When enrollment has been completed:

      1. Successful enrollment: The locator LED will blink GREEN 3 times.

      2. Failed enrollment: The locator LED will blink RED 3 times.
2. Reset to factory default – if your device cannot be added to a network, or, for other reason you desire to reset it to factory out-of-box state, perform the following actions.
   a. LU107, LU20S
      i. Press and hold button for 20 seconds (but less then 25 seconds) until the LED blinks Amber the second time. (It will blink Amber once at 5 seconds, then, a second time at 20 seconds)
      ii. Release Button
      iii. During the reset, the LED will flash amber and green rapidly. When the flashing stops the device reverts to auto join mode and is searching for a network to join. The locator light will be green if the load is off and if the load is on. The locator light will briefly flash off-on every 30 seconds while looking for an open network.
   b. LU04P
      i. Press and hold button for 14 seconds. The locator light quickly flash red/amber.
      ii. Release button.
      iii. When reset is complete, device will reboot. Follow the LU04P instructions in Installation section to add it into a system.

3. Indicators and Switch Functions
   a. LED Indicator Light
      • GREEN when load is ON
      • Unit when load is OFF
      • Flashes GREEN/RED/AMBER during enrollment and factory default
   b. Toggle/Reset Button - allows for manual activation and test of load by a short press/release. On/Off/Dim sequence varies by device and is as follows:
      • LU107: Off \( \rightarrow \) 10\% \( \rightarrow \) 50\% \( \rightarrow \) 100\%
      • LU20S: Off \( \rightarrow \) Off
      • LU04P: Off \( \rightarrow \) Off

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Catalog Nos.</th>
<th>LU20S-DNW</th>
<th>LU107-DNW</th>
<th>LU04P-1NW</th>
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<tr>
<td>Switching Relay</td>
<td>120-277VAC, 50/60Hz</td>
<td>120-277VAC, 50/60Hz</td>
<td>120VAC, 60Hz</td>
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<td>120V</td>
<td>Standby: 0.2W, Max: 0.5W+Load Current</td>
<td>Standby: 0.2W, Max: 0.5W+Load Current</td>
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<td></td>
<td>277V</td>
<td>Standby: 0.3W, Max: 0.6W+Load Current</td>
<td>Standby: 1.0W, Max: 1.2W+Load Current</td>
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<td>Load Ratings</td>
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<td>8A</td>
<td>360W</td>
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<td>Network Connections</td>
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<td>Operating Temperature</td>
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**Statement Caution**
Changes or modifications not expressly approved by Leviton Manufacturing Co., could void the user’s authority to operate the equipment.

**FCC Statement:**
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

**IC 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.

**TRADEMARK DISCLAIMER**
Use herein of third party trademarks, service marks, trade names, brand names and/or product names are for informational purposes only, are may be the trademarks of their respective owners; such use is not meant to imply affiliation, sponsorship, or endorsement. Lumina is a registered trademark of Leviton Manufacturing Co., Inc. Bluetooth is a trademark of Bluetooth SIG. Android is a registered trademark of Google, LLC. iOS is a trademark of Cisco. Mark 10 is a registered trademark of Advance Transformer Co.

**RF EXPOSURE AND CO-LOCATION:**
To comply with FCC and ISED RF exposure limits for general population / uncontrolled exposure this device should be installed and operated with a minimum distance of 7.9 inches (20 cm) between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

**FCC SUPPLIERS DECLARATION OF CONFORMITY**
Lumina RF Load Controller LU04P-1NW manufactured by Leviton Manufacturing, Inc., 201 N Service Road, Melville, NY, www.leviton.com. 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, including interference that may cause undesired operation.

**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 or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstatement. 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.