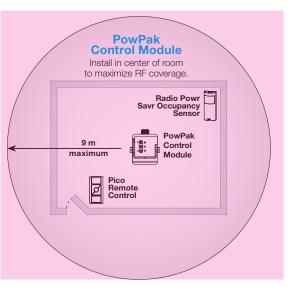
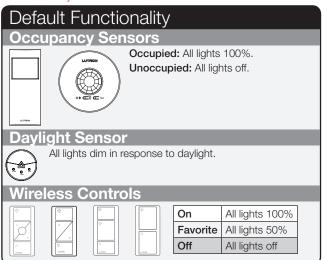


For installation by a qualified electrician in accordance with all local and national electrical codes.

- Use copper conductors only.
- Check to see that the device type and rating is suitable for the application.
- DO NOT install if product has any visible damage.
- If moisture or condensation is evident, allow the product to dry completely before installation.
- Operate between 0 °C and 40 °C (32 °F and 104 °F) ambient.
- 0% to 90% humidity, non-condensing.
- For indoor use only.



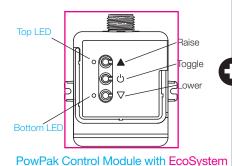
All Wireless Transmitters must be installed within 9 m (30 ft) of the PowPak Control Module with EcoSystem.



Required Components

For each system, ensure that you have:

One PowPak Control Module





Radio Powr Savr Occupancy/Vacancy Sensor

(10 maximum)

At least one Wireless Transmitter





(10 maximum)



ntrol Radio Powr Savr Daylight Sensor

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At least one EcoSystem LED Driver or Fluorescent Ballast

Consult third-party DALI fixtures installation guide for fixture-specific wiring. This device can be installed on a fixture / troffer, junction box, or marshalling box using the conduit nut or with mounting screws. The device must NOT be mounted inside a fixture / troffer or other metallic enclosure. Improper installation can result in degraded wireless communication, intermittent or sustained communication failures, and will not be covered under warranty. For mounting and wiring best practices see Lutron Application Note #620 (P/N 048620).







Sensor 64 mA for the control lines. May be pre-installed in light fixture.

Note: All drivers and ballasts used with Vive wireless controls must comply with the limits for a Class A device, pursuant to Part 15 of the FCC rules.

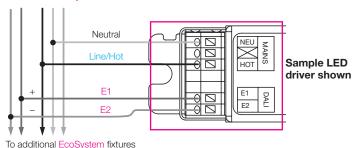
Start Here

Mount, Wire, and Install EcoSystem Devices and Lighting Fixtures

Consult third-party device installation guide

MARNING! Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing the unit.

- A Connect mains wiring (hot, neutral) to each fixture.
- **B** Connect EcoSystem control to each fixture.

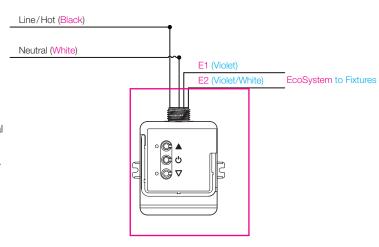


Install PowPak Control Module with EcoSystem

Suggested Installation Location: Center of room to ensure proper RF coverage of area.

- A The PowPak Control Module with EcoSystem can be installed on a fixture / troffer, junction box, or marshalling box using the conduit nut (provided) or with mounting screws (not provided). Please consult local and national electric codes for proper installation.
- B Once installed, energize the PowPak Control Module with EcoSystem.
- C Use the Toggle "ou", Raise "▲" and Lower "♥" buttons to verify control wiring.

Wire Gauge	Maximum DALI-compliant Bus Wire Length
1.5 mm ² (14 AWG)	300 m
0.75 mm ² (18 AWG)	150 m
0.5 mm ² (20 AWG)	100 m



3 Programming with a Vive Hub

A Use an iOS or Android compatible device.



B Download the Lutron Vive app.





C Open the app and follow the instructions.



Note: For further information on set up, programming, and troubleshooting with a Vive system, please refer to the installation instructions included with the Vive hub or visit www.lutron.com/vive

Note: For programming the PowPak Control Module with EcoSystem without a Vive hub see reverse side.

Troubleshooting www.lutron.com/vive Ensure that the breaker(s) to the PowPak Control Module are energized Ballasts cannot be controlled locally from PowPak Control Module • Ensure that the EcoSystem control lines are wired to the lighting fixture(s) with EcoSystem. Reset to factory defaults. Lights do not dim as expected. Ensure that EcoSystem control lines are wired properly. • Ensure that the breaker(s) to the PowPak Control Module with EcoSystem and drivers/ballasts are energized. Ensure that Wireless Transmitters are associated to the PowPak Control Module with EcoSystem Lights do not respond to Wireless Transmitter(s). Reset to factory defaults. Lights are unstable at low-end or flash/flicker at turn-on or turn-off. Adjust the low-end trim. Wireless Transmitter(s) cannot be associated to PowPak Control The maximum number of Wireless Transmitters have been associated to the PowPak Control Module with EcoSystem. To remove a previously set up Wireless Transmitter, tap a Wireless Transmitter button three times; on the third tap hold for three seconds and then tap three more times odule with EcoSystem

PowPak | Installation Programming without a Vive Hub

Control Module with EcoSys

Part of the Vive Family

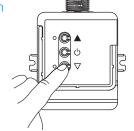
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Associate Wireless Transmitters to PowPak Control Module with EcoSystem

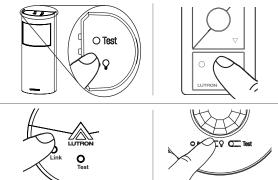
Before beginning this step, make sure that there are no other PowPak modules being set up within the same building. It is possible that wireless transmitters from other systems can be incorrectly associated to this module.

A On PowPak Control Module with EcoSystem, hold Toggle button ""o" for 6 seconds until lights flash.





B Hold the indicated button on each transmitter for 6 seconds. Lights will flash to show that wireless transmitters have been associated. LEDs also flash on successful association.



- C On PowPak Control Module with EcoSystem, hold Toggle button "o" for 6 seconds to save association. Lights will return to high end and LEDs will stop flashing.
- **D** Permanently install wireless transmitters (consult individual component installation guides for information).

Reset Factory Defaults

Note: In some instances, it may be necessary to reset the PowPak Control Module with EcoSystem and connected devices back to factory default settings. Before beginning, make sure that all devices are connected and powered.

- A Triple-tap the Toggle button "⊕" on the PowPak Control Module with EcoSystem and hold until both LEDs begin to flash slowly; release button.
- **B** Within 3 seconds of the start of flashing, triple-tap the same button again and the LEDs will flash rapidly indicating that the unit has been reset to factory defaults.

Note: Any associations or programming previously set up with the PowPak will be erased and will need to be re-programmed.

Calibrate the Radio Powr Savr Daylight Sensor

Daylight Sensor will control all wired fixtures equally.

- A Press and release the "Cal." button on the Daylight Sensor.
- **B** Set lights in room to desired light level.
- **C** Press and hold the "Cal." button for 6 seconds.
- **D** Exit room for 5 minutes to complete calibration.

Note: When calibration has completed, all lights will flash and begin to respond to daylight.

Multiple Daylight Rows (Optional)

For every row of daylighting a separate PowPak Control Module with EcoSystem must be used. For detailed setup refer to the tuning section of the Radio Powr Savr Daylight Sensor installation quide.

• Select the PowPak Control Module with EcoSystem that you want to adjust by pressing the Toggle button.



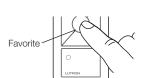
For Pico remote controls with a **Favorite** Butto

A Adjust lights to desired level:

Use the **Raise** button " \triangle " or **Lower** button " ∇ " on the Pico remote control.

B Save favorite level:

Press and hold the **Favorite** button for 6 seconds. The load will flash Favorite 3 times to confirm that the Favorite level is saved.



4 Set Low-End Trim and High-End Trim (Optional)

For best results, minimize the amount of sunlight entering the room before performing the following procedures.

Notes

Depending on the fixture manufacturer or load, low-end trim and high-end trim may need to be adjusted.

- Trim low-end to ensure a stable light level because some loads will flicker or drop out if trimmed too low.
- Be sure that you can turn on the lights to the low-end trim level without any abnormal operation.
- The factory default high-end trim is suitable for most applications but can be adjusted as desired.

Low-End Trim

A Enter low-end trim adjustment mode:

Press and hold the **Lower** button " ∇ " on the fixture control for 12 seconds.

The lights will flash and the bottom LED will begin flashing.

B Adjust the low-end trim:

Use the **Raise** button " \blacktriangle " and **Lower** button " \blacktriangledown " on the control module to adjust and set the lights to the desired low-end (0.1 to 45%).

C Save the low-end trim:

Press and hold the **Toggle** button "o" for 6 seconds to save setting.

The bottom LED will begin flashing and then turn solid to indicate new level has been saved.

High-End Trim

A Enter high-end trim adjustment mode:

Press and hold the **Raise** button "A" on the fixture control for 12 seconds.

The lights will flash and the top LED will begin flashing.

B Adjust the high-end trim:

Use the **Raise** button " \blacktriangle " and **Lower** button " \blacktriangledown " on the control module to adjust and set the lights to the desired high-end (55 to 100%).

C Save the high-end trim:

Press and hold the Toggle button "o" for 6 seconds to save setting.

The load status LED will begin flashing and then turn solid to indicate new level has been saved.

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5 Set Minimum Light Level (Optional)

Certain applications (e.g., hallways), may require that the lights never turn off. For these areas, activate Minimum Light Level mode.

A Enter minimum light level adjustment mode:

Press and hold **Toggle** button "o" and **Lower** button "o" for 12 seconds. Lights will flash high-low-high and both LEDs will begin flashing.

If lights stop flashing and turn off, the minimum light level is set to OFF (default).

If lights stop flashing and go to low-end, the minimum light level is ON and set to low-end.

B Change the minimum light level:

Press Raise button "A" to set minimum light level to low-end.

Press **Lower** button " ∇ " to set minimum light level to OFF.

C Save the minimum light level:

Press and hold **Toggle** button "o" for 6 seconds. Both LEDs will quickly flash to indicate that new level has been saved.

6 Set Occupancy Light Levels (Optional)

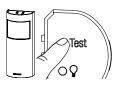
Note: Unoccupied light level is always the minimum light level and cannot be adjusted.

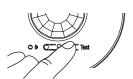
A Set desired occupancy light levels:

Use Raise/Lower buttons " $\blacktriangle/\triangledown$ " on the PowPak Control Module with EcoSystem or Raise/Lower buttons " $\vartriangle/\triangledown$ " on all associated Pico Remote Controls.

B Save occupancy light levels:

Press and hold **Test** button for 6 seconds on any associated Radio Powr Savr Occupancy Sensor without a **Lights On** button. Release when Sensor lens starts to flash.





Customer Assistance:

TEL: +1.844.LUTRON1 **FAX:** +1.610.282.1243 www.lutron.com/support

Limited Warranty: www.lutron.com/en-US/ResourceLibrary/warranty/Limited%20Comm.pdf

FCC/IC Information

This device complies with part 15 of the FCC Rules and 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. Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user's authority to operate this equipment. NOTE: 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:

- Re-orient 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.

