

Lumina™ RF Wireless Room Controls FAQs

Q What is Lumina RF?

A Compatible with virtually all lamp fixtures and load control devices, Lumina RF Wireless devices offer a scalable, flexible wireless mesh solution to meet the unique control needs of virtually any space all without having to pull new wires. Control one fixture or a group of fixtures in multiple zones. Add wireless control to virtually any ON/OFF or dimming device. Select Wireless devices are compatible with the Intellect™ Integrated Fixture Control System.

Q Is a Room Controller required for every room?

A Yes. Room Controllers are part of the Lumina RF Ecosystem and allow Bluetooth Communication back to a mobile device. Room Controllers are the “brains” of the space and contain the business logic to control operations within a space. The Room Controller cannot be used to control Intellect-enabled lamps and fixtures.

Q Can there be more than one Room Controller in a room?

A Yes. Secondary and tertiary Room Controllers are added as additional Keypads

Q How many devices can there be on a single Room Controller?

A There is a maximum of sixty(60) devices per Room Controller.

Q What is the maximum number of groups on a single Room Controller?

A Sixteen (16)

Q How many entry stations (keypads/dimmers/switches/room controllers) can be in one room?

A Six (6)

Q How many devices or nodes per group?

A There is no practical limit beyond the maximum 60 devices per room.

Q Can Color Tuning or RGBW lighting be used with Lumina RF Wireless?

A Lumina RF Wireless is compatible with select lamps from some of our lighting partners. Please contact your Leviton Salesperson for assistance.



Frequently Asked Questions Lumina™ RF Wireless Room Control System



Q Do I need a Photocell for each daylighting space?

A Yes, this is the recommended practice.

Q Can I have Partial-OFF for my lighting?

A Yes. Partial OFF is configurable for all dimming loads. This configuration is the Primary Timeout Level.

Q If the loads go to a Partial-OFF state, can they later all turn OFF?

A Yes. This configuration is the Secondary Timeout Level.

Q What are the fade times?

A

- OFF/Auto-OFF** — 3 seconds
- ON/Auto-ON** — 3 seconds
- Scenes** — Configurable from 0-10 seconds
- Toggle** — 3 seconds

Q What are the Operating Modes?

- A**
- **Restore Daylighting Level** — Turns the lights ON automatically upon occupancy. The lights will go straight to the daylighting level based on current ambient lighting. If the space has no natural lighting or no light bleeding in from another space, the lighting will go to full (100%). If the space is well lit by natural light, the lights may not turn on at all.
 - **Restore Last Level** — Turns the lights ON automatically to the last level they were at when last occupied. If Daylight harvesting is active, after a short time the lighting will begin to adjust to the daylighting level based on current ambient lighting.
 - **Goto Fixed Level** — Turns the lights ON automatically upon occupancy and allows the user to set the desired light level. If Daylight harvesting is active, after a short time the lighting will begin to adjust to the daylighting level based on current ambient lighting. **Note:** Goto Fixed Level would be used for Partial ON applications.
 - **Manual-ON** — Requires the user to manually turn the lights ON. The level the lights turn on to is defined by the keypad configuration.

Q How many occupancy sensors can there be in a single room?

A There is no practical limit beyond the maximum 60 devices per room.

Q How many groups or devices can an occupancy sensor control?

A All occupancy sensor paired to a room control the entire room.

Q Can Leviton wireless devices control plug loads?

A Yes. The ZSTLR 15A Zigbee Receptacle can be used for individual receptacles, or the LU20S 20A Wireless Load Control Power Pack is capable of controlling multiple receptacles.

Frequently Asked Questions Lumina™ RF Wireless Room Control System



Q Are Leviton wireless devices compliant with the latest Energy Codes?

A Yes. Leviton wireless devices can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6.

Q Are there Leviton wireless multi-tech occupancy sensors?

A No. Currently only the ZSC04/ZSC15 PIR Sensors are available.

Q What is the battery life of the sensors?

A Wireless Occupancy Sensor (ZSC04/ZSC15) — 7-10 years
Wireless Photocell (LURPC) — 5-6 years

Q Can I hardwire the sensors instead of relying on batteries?

A The ZSC04 and ZSC15 both have an optional +24VDC input allowing them to be installed without batteries.

Q What is the maximum wireless range?

A It is recommend devices be within 150ft with line-of-sight. If there are obstructions or other wireless interference, this range may diminish somewhat.

Q Do Leviton wireless devices act as wireless repeaters?

A All wireless line voltage devices act as a repeater and rebroadcast the signal to reach devices that are further away.

Q Do Leviton wireless devices interface with BACnet?

A No. However, consider using the networked enterprise system, GreenMAX® DRC, for a BACnet interface.

Q The app says updates are available. Do I have to update all of my devices?

A Updates are not required unless they are labeled "Required Update". Required updates are occasionally needed to maintain the integrity of the system.

Q Do Leviton wireless devices offer demand response capabilities?

A Not at this time. We are continually updating our system and adding new hardware, features, and capabilities.

Q What Leviton wireless protocols are used?

A Leviton wireless devices use Zigbee communication protocols for communication. Zigbee uses mesh networking technology to provide quick, reliable, and secure communication to a wide variety of Zigbee certified smart products such as sensors, thermostats, room controllers, and more.

Q Do three-way and multi-way switch and dimmer applications require a traveler wire?

A No. All communication wireless and requires a Room Controller in each space to coordinate the devices.

Q If a dimming load control power pack (LU107/LU04P) is being used in the space, can a wallbox dimmer be used to control it?

A Yes. The DL1KD, ZS057, and DL057 can all be used to provide dimming control for a power pack. Every room must have a Room Controller.

Q What are the input and load ratings for the Lumina RF Wireless Devices?

- A**
- **Lumina RF Room Controller:** 120-230-277VAC , 50/60 Hz, 40mA
 - **Lumina RF Decora® Wall Switch Room Controller with 5A Relay:** 120-277VAC, 50/60Hz, 5A Load
 - **Lumina RF Decora® 0-10V Dimming Room Controller with 5A Relay:** DL057-D0Z: 2.4GHz,120-277VAC, 50/60Hz, 5A Load, DL057-30Z: 5A Relay, 2.4GHz, 347VAC, 50/60Hz, 5A Load
 - **Wireless 20A ON/OFF Switching Power Pack:** 120-277VAC, 50/60Hz; General Purpose: 120V, 20A
 - LED/CFL/Elec. Ballast:120V, 10A, 1200VA, LED/CFL/Elec. Ballast:277V, 10A, 277VA, Standard Ballast: 120-277V, 10A, Tungsten: 120V, 6.67A 120V 1/4 HP Motor (FLA 5.8A), 277V 1/3 HP Motor (FLA 3.0A)
 - **Wireless 10A 0-10V Dimming Power Pack:** 120-277V, 50/60Hz; 120-277V, 50/60Hz, LED/CFL/ Elec. Ballast: 120V, 8A, LED/CFL/Elec. Ballast: 277V, 5A, 1385VA, Standard Ballast:120-277V, 10A, Tungsten: 120V, 6.67A, 120V 1/4 HP Motor (FLA 5.8A), 277V 1/3 HP Motor (FLA 3.0A)
 - **Wireless 800W Phase Cut Dimming Power Pack:** 120V, 60Hz, Incandescent: 800W, LED/CFL/ Elec. Ballast: 360W, Mark X: 800VA, MLV: 800VA
 - **Wireless ON/OFF Decora® Wall Switch:** 120-277VAC, 50/60Hz,10A Load
 - **Wireless 0-10V Decora® Wall Dimmer:** ZS057-D0Z: 2.4GHz, 120-277VAC, 50/60Hz, 8A Load, 0-10V Sinking, 50mA, ZS057-30Z: 2.4GHz, 347VAC, 50/60Hz, 4A Load, 0-10V Sinking, 50mA
 - **Zigbee Controlled Receptacle:** ZSTLR-1HW: 120V, 50/60Hz, 15A

Glossary

- **Partial-ON:** Method by which occupancy or vacancy sensors automatically activate the lights to a designated level such as 50%,and the occupant then uses a switch to bring the lights to full
- **Partial-OFF:** Method by which occupancy or vacancy sensors automatically dim lights to a designated level or turn lights OFF when a space is unoccupied
- **Manual-ON:** Occupant turns the lights in a space ON
- **Auto-ON:** Method by which occupancy sensors automatically turn lights ON when occupants are detected in a space
- **Vacancy Mode:** See Manual-ON
- **Occupancy Mode:** See Auto-ON
- **Operating Mode:** Determines how the system will respond to Occupancy/Vacancy events
- **PIR (Passive Infrared) Sensor:** Measures infrared light radiating from objects in its field of view and detect general movement

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