# Lumina™ RF Decora® Wireless Keypad Room Controller
## For Use with Lumina RF Wireless Room Control System

| DLDNK-01W | DLDNK-02W | DLDNK-04W | DLDNK-08W |
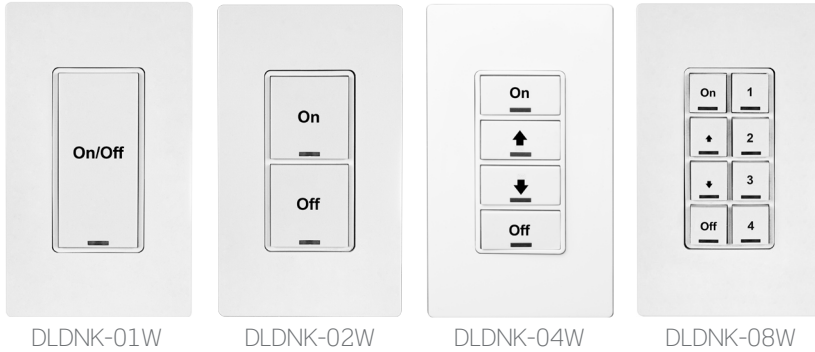
## Description

The Lumina™ RF Decora® Wireless Keypad Room Controller (DLDNK) is the primary user interface for a Lumina RF Wireless Room Control System, combining both familiar pushbutton control and energy management business logic into line voltage-powered wireless communication devices. The Lumina RF Keypad manages a room by coordinating activities of all wireless devices within the space.

Leviton Antimicrobial Color Change Kits (CKDAK) feature antimicrobial treated plastic to help keep its surfaces cleaner and prevent microorganisms from degrading the product. This product contains an antimicrobial agent to inhibit the growth of mold, mildew, fungus and odor-causing bacteria that cause discoloration, staining, deterioration or corrosion on the surface of the device in between normal cleanings.

### Lumina RF Wireless Room Control System

The Keypad works with compatible wireless devices to create an advanced intelligent lighting system that can be used to comply with IECC, A SHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming, and daylight harvesting requirements. Dimming, multi-zone daylight harvesting, occupancy and vacancy sensing, manual control, and scene control are configured using the Bluetooth®-enabled Lumina RF Wireless App.

The Keypad also provides the primary interface between the smartphone/tablet commissioning and control device and the Lumina RF Wireless Room Control System. Wirelessly configure, control, monitor and provision the Lumina RF Wireless Room Control system using the Bluetooth®-enabled Lumina RF Wireless App designed for an Android or iOS smart phone and other compatible devices within a 30' range.

## Applications

- Daylight harvesting with occupancy and light level sensing with optional ZC015 Sensor and Photocell
- Room entry stations or remote (3-way) switch for use at other entry doors
- Coordination of Leviton wireless energy management devices in a space
- Control of Intellect-enabled lamps and fixtures. Contact factory for more information.
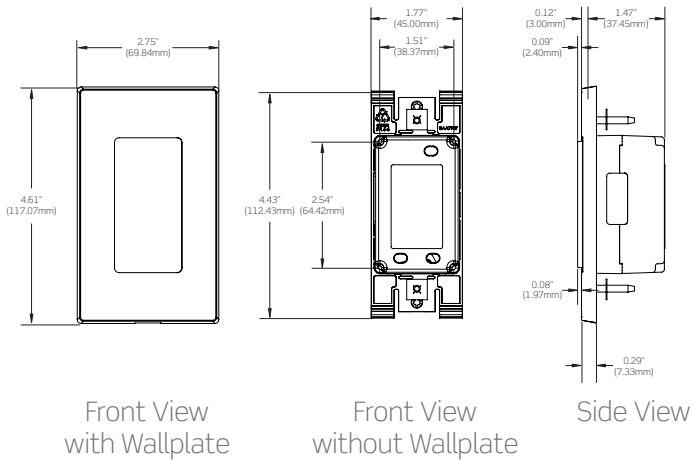
## Features

- Bluetooth interface for connection to any Android or iOS devices with Bluetooth 4.0 with BLE—download the Lumina RF Wireless App at Google Play or the Apple App Store
  - Configuration
  - Control
  - Status monitoring
- Every node is a repeater
- Line voltage powered
- Implements energy management business logic for wireless devices
- Customizable buttons that can be programmed through the Leviton Lumina RF Wireless App to perform a variety of functions:
  - Room ON/OFF
  - Group ON/OFF
  - Scene
  - Any fixture at any level
  - Fade time
  - Preset groups
  - Toggle
- Button LEDs monitor and track actual room status
- Decora aesthetic
- Available in 1-, 2-, 4- and 8-button models
- LED status indicators
- Multiple operating modes: toggle maintained, toggle momentary and preset
- Can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming and daylight harvesting requirements

## Dimensions Diagram

2.75"
(69.84mm)

4.61"
(117.07mm)

Front View
with Wallplate

1.77"
(45.00mm)

1.51"
(38.37mm)

4.43"
(112.43mm)

2.54"
(64.42mm)

Front View
without Wallplate

0.12"
(3.00mm)

0.09"
(2.40mm)

1.47"
(37.45mm)

0.08"
(1.97mm)

0.29"
(7.33mm)

Side View

## Wiring Diagram

BK

Hot (Black)

Line
120-277VAC, 60 Hz

WH

Neutral (White)

## Wireless Communication

Constant
Line
Voltage

Fixture retrofitted with Intellect-enabled fixtures

Welcome to Lumina RF SA

Lumina RF
Wireless App

Hot, Neutral
120-277VAC

On

Off

Lumina RF
Keypad Room Controller

Wireless Load Controller

Wireless Occupancy
Sensor & Photocell
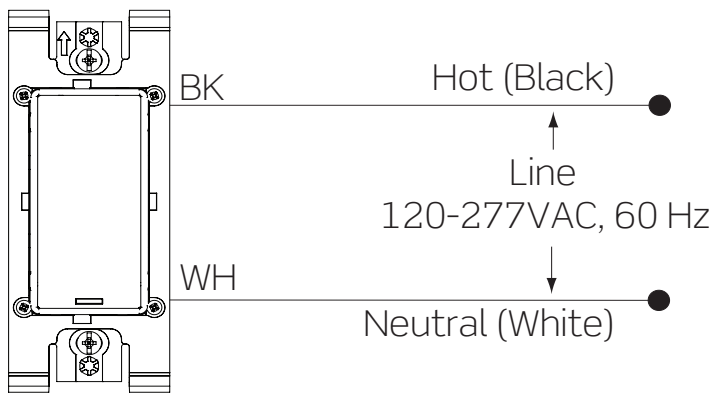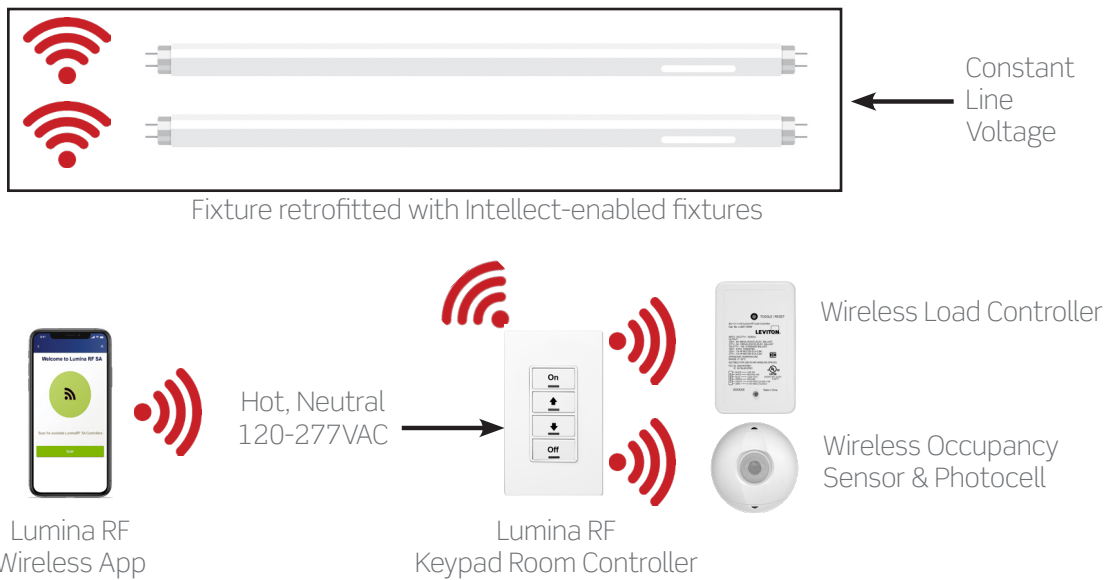
## Lumina RF Wireless Compatibility Chart

| Lumina RF Wireless Room Control System* | | |
|---|---|---|
| Room Controllers* | | DLDNK-01W \| DLDNK-02W \| DLDNK-04W \| DLDNK-08W<br>Lumina RF Wireless Keypad Room Controllers* |
| | | DL05S-D0Z<br>Decora Wireless Wall Switch Room Controller with 5A Relay |
| | | DL057-D0Z \| DL057-30Z<br>Decora Wireless 0-10V Dimming Room Controller with 5A Relay |
| **Compatible Products*** | | |
| Load Control Devices | | LU20S-DNW<br>Wireless 20A ON/OFF Switching Power Pack |
| | | LU107-DNW<br>Wireless 10A 0-10V Dimming Power Pack |
| | | LU04P-1NW<br>Wireless 800W Phase Cut Dimming Power Pack |
| ON/OFF Switch | | ZS10S-D0Z<br>Decora Wireless ON/OFF Wall Switch |
| 0-10V Dimmer | | ZS057-D0Z \| ZS057-30Z \| ZS057-ALZ<br>Decora Wireless 0-10V Wall Dimmer |
| Receptacle | | ZSTLR-1HW<br>Wireless Controlled Receptacle |
| Occupancy Sensor | | ZC015-BIW<br>Wireless PIR Occupancy Sensor and Photocell |
| Configurator Tool | | Lumina RF Standalone App<br>Download via Google Play or Apple App Store |

*Room Controllers can also be used as Remote Keypads for multi-way switching

## Specifications

| Electrical | |
|---|---|
| Input Voltage | 120-230-277VAC , 50/60 Hz, 40mA |
| Output | None—wireless communication only |
| Radio Frequency | 2.4 GHz wireless mesh network |
| IP Rating | IP30 |
| Network Connections | IEEE 802.15.4, Up to 75' between Lumina RF devices, mesh network—all devices are repeaters, up to 30' between Keypad and Bluetooth phone or tablet, 75' between Keypad and first fixtures |
| Connections | 16 AWG (Power connections) |
| **Environmental** | |
| Operating Temperature Range | 32° F to 122° F (0° to 50° C) |
| Storage Temperature Range | -4° to 185° F (-20° to 85° C) |
| Relative Humidity | 0 to 90% non-condensing, for indoor use only |
| **Other** | |
| Energy Codes | Can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming, and daylight harvesting requirements |
| Listings | UL/cUL Certified, UL924, NOM Listed, RoHS 2 Compliant, and IEC61000-4-2, UL916 standard for energy management equipment. Listed on the DesignLights Consortium® (DLC) Qualified Product List (QPL). |
| Radio Certifications | FCC certified for wireless communication (U.S.), FCC ID: QGH-DLDNK, IC Certified (Canada), IC ID: 2473A-DLDNK |
| Warranty | 5-Year Limited |

## Ordering Information

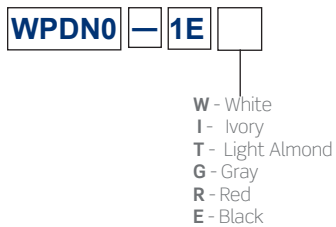| Lumina RF Keypad Room Controller | |
|---|---|
| **Cat. No.\*** | **Description** |
| DLDNK-01W | Lumina RF Decora Wireless Keypad Room Controller 1-Button with LED feedback functionality, 120-277VAC, 50/60Hz, White |
| DLDNK-02W | Lumina RF Decora Wireless Keypad Room Controller 2-Button with LED feedback functionality, 120-277VAC, 50/60Hz, White |
| DLDNK-04W | Lumina RF Decora Wireless Keypad Room Controller 4-Button with LED feedback functionality, 120-277VAC, 50/60Hz, White |
| DLDNK-05W | Lumina RF Decora Wireless Keypad Room Controller 8-Button with LED feedback functionality, 120-277VAC, 50/60Hz, White |

## Color Change Kits Ordering Key

| CKD | | K | — | | | |

**N** - Color Change Kit
**A** - Antimicrobial

**1** - 1 Button
**2** - 2 Button
**4** - 4 Button
**8** - 8 Button

**W** - White
**I** - Ivory
**T** - Light Almond
**G** - Gray
**R** - Red
**E** - Black

See ordering table for
Engraved Color Change Kits
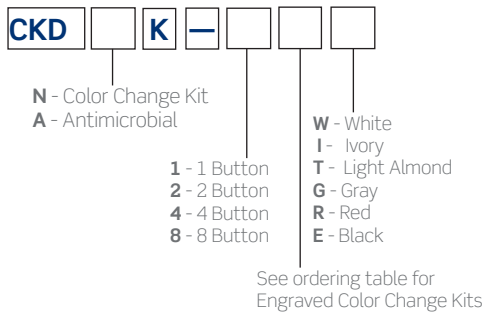
## Engraved Color Change Kits Table

| 0 | Color Change Kit |
|---|---|
| E | Custom Engraving |
| 1 | 1-& 2-Button - Engraved On/Off |
| | 4-Button - Engraved On, [Up Arrow], [Down Arrow], Off |
| | 8-Button - Engraved On, 1, [Up Arrow], 2, [Down Arrow], 3, Off, 4 |
| 2 | 2-Button - Engraved 1,2 |
| | 4-Button - Engraved 1,2,3,4 |
| | 8-Button - Engraved On1, On2, [Up Arrow], [Up Arrow], [Down Arrow], [Down Arrow], Off1, Off2 |
| 3 | 2-Button - Engraved On [Up Arrow], Off [Down Arrow] |
| | 4-Button - Engraved On, Off, 1, 2 |
| 4 | 4-Button - Engraved On1, Off1, On2, Off2 |

Wallplate purchased separately, recommended Leviton Cat. No. 80301 screwless wallplates
Antimicrobial Treated Wallplates sold separately

## Ordering Key - Wallplate Custom Engraving

| WPDN0 | — | 1E | |

**W** - White
**I** - Ivory
**T** - Light Almond
**G** - Gray
**R** - Red
**E** - Black

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