

Project		Catalog #		Type	
Prepared by		Notes		Date	



# WaveLinx

## PRO Battery-Powered Wallstation (WB-Series)

Surface mounted multi-scene battery-powered wallstation

### Typical Applications

Office • Education • Healthcare • Hospitality • Retail  
Industrial • Manufacturing

### Interactive Menu

- Order Information pages 2 and 3
- Button Options pages 2 and 3
- Additional Resources page 4
- Connected Systems page 6
- Product Warranty

### Product Certification\*



- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

### Product Features



### Compatibility



## Overview

The WB-Series wallstation is a dimming wallstation providing customized light levels for each area. The wallstation has several small and large button configurations with raise and lower options. Each button's action is customized from the WaveLinx mobile application.

The wallstation is an integral part of the WaveLinx connected lighting system. It communicates with WaveLinx Area Controller over the IEEE 802.15.4 wireless mesh network.

The wallstation is powered by four AAA Alkaline batteries and mounts on a wall's surface. It comes with a complementary decorator-style white wall plate.

## Product Features & Benefits

- **Configurable button options** – Customize the wallstation to offer best occupant experience with small/large buttons and raise and lower options
- **Button's action configurable via software** – Customize the actions of each button to a specific light level, scene or shades level with a toggle option using the WaveLinx Mobile App
- **5-year battery life with battery monitoring** – Get automatic notifications on WaveLinx CORE when the battery level is low
- **Surface Mounting wallstation** – Simple installation with minimum tooling making it a great solution for thin or glass walls

## Order Information

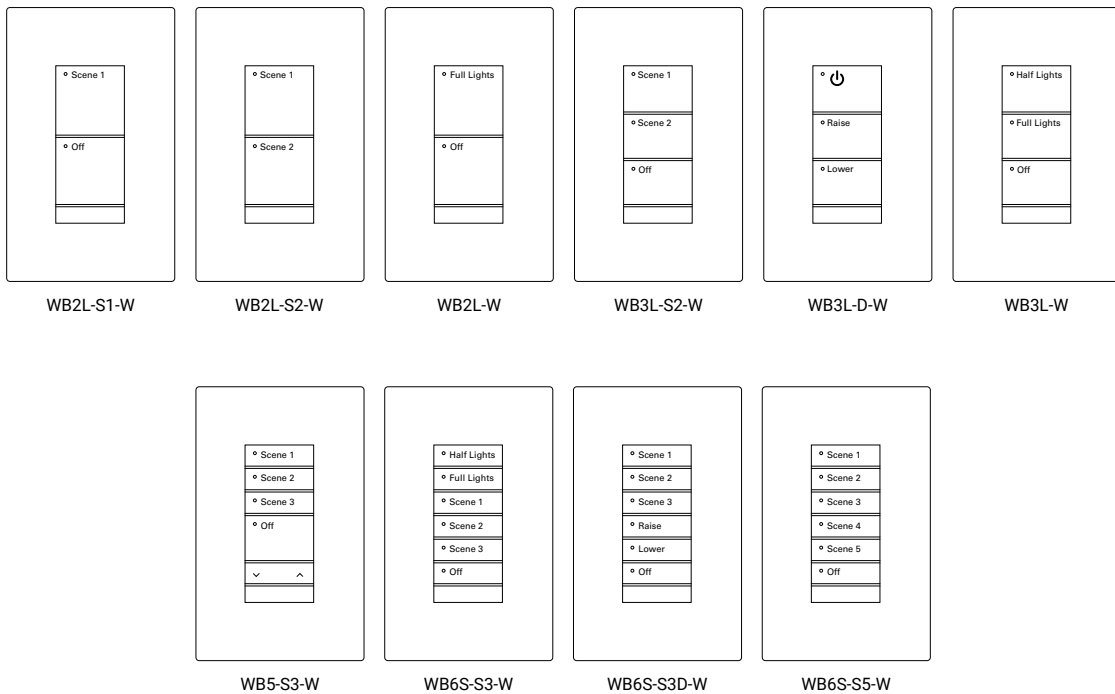
The WaveLinx PRO WB-Series Battery-power wallstation is an accessory to the WaveLinx connected lighting (WCL) system and requires a WaveLinx Area Controller (WAC) for full functionality.

The WaveLinx PRO WB-Series Battery-power wallstation is used to provide local and multi-level control in spaces and can be mapped to multiple zones in an area to create customizable light levels from simple control to architectural.

### Catalog Number

Catalog Number	Description	Color Options	Button Engraving
<b>WB2L-S1</b> -*	WaveLinx PRO Battery, 2 button large wallstation, white, S1	*=W - White	<b>BLANK</b> = Standard Engraving <b>ENGRV</b> = Customer Specified Engraving
<b>WB2L-S2</b> -*	WaveLinx PRO Battery, 2 button large wallstation, white, S2	*=W - White	
<b>WB2L</b> -*	WaveLinx PRO Battery, 2 button large wallstation, white	*=W - White	
<b>WB3L-S2</b> -*	WaveLinx PRO Battery, 3 button large wallstation, white, S2	*=W - White	
<b>WB3L-D</b> -*	WaveLinx PRO Battery, 3 button large wallstation, white, D	*=W - White	
<b>WB3L</b> -*	WaveLinx PRO Battery, 3 button large wallstation, white	*=W - White	
<b>WB5-S3</b> -*	WaveLinx PRO Battery, 5 button wallstation, white, S3	*=W - White	
<b>WB6S-S3</b> -*	WaveLinx PRO Battery, 6 button small wallstation, white, S2	*=W - White	
<b>WB6S-S3D</b> -*	WaveLinx PRO Battery, 6 button small wallstation, white, S3D	*=W - White	
<b>WB6S-S5</b> -*	WaveLinx PRO Battery, 6 button small wallstation, white, S5	*=W - White	
<b>Notes</b>	<b>Notes</b> All WaveLinx PRO Wallstations include standard engraving and color matching screwless single gang wallplates. For custom engraving use the configurator tool within the FlashPro tool.	<b>Notes</b>	

These are standard engraving options that require field programming through the WaveLinx PRO Mobile Application.



**Required Accessories**

All WaveLinx connected lighting (WCL) system accessories require at least one WaveLinx Area Controller (WAC2) for communications. Ensure the bill of material includes one of the following components.

Catalog Number

Catalog Number	Description
WAC2-POE	WaveLinx Area Controller G2, PoE powered
WAC2-120	WaveLinx Area Controller G2 with 120VAC to PoE Injector

**Optional Accessories**

For connection to 120VAC outlets.

Catalog Number

Catalog Number	Description
WPOE2-120	120VAC to PoE Injector

**Product Specifications****Mechanical**

**Size:** 4.5"H x 2.8"W x 0.5"D (114mm x 70mm x 13mm)

**Environment:**

- **Operating temperature:** 14°F to 104°F (-10°C to 40°C)
- **Storage temperature:** 14°F to 104°F (-10°C to 40°C)
- **Relative humidity operating:** 5% to 95% non-condensing
- For indoor use only

**Mounting:** Surface mount

**Color:** White

**Electrical**

**Power supply type:** (4) AAA Alkaline batteries (provided)

**Status Indicators:**

- Button LEDs - White (one per scene button)
- LED functionality
  - Indication of wireless network join request
  - Indication of wireless network connection
  - Scene indication of operations

**Button Configuration:** 2, 3, 5 and 6 button options

**Software Specifications**

- Each button programmable to trigger or toggle Scene or Zone
- Default values when joined to an area via WaveLinx PRO Mobile application
- Fade rates and scene transitions are programmable

**Wireless Specifications**

**Radio:** 2.4GHz

**Standard:** IEEE 802.15.4

**Transmitter Power:** + 8dBm

**Configuration type:** Router, End Point

**Range:** 100ft (50m) LOS through 2 interior walls of standard construction

Note - metal faceplates will reduce wireless range

**System Performance**

**Maximum number of Devices:** 200 per WaveLinx Area Controller (best practice 150 devices)

**Standards/Ratings\***

- cULus Certified
- FCC Part 15
- RoHS Compliant
- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

**Warranty**

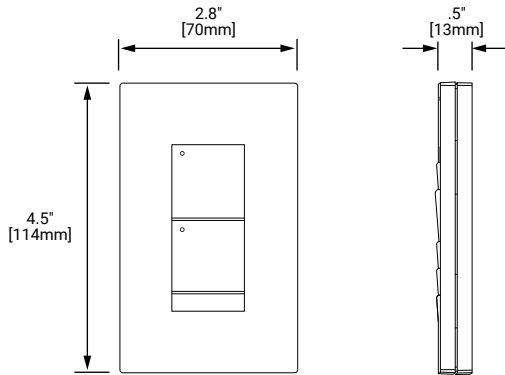
Five year warranty standard

*Note: Use of ammonia based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.*

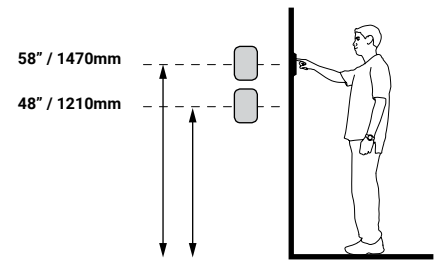


Download the WaveLinx PRO Mobile Application from either the Google Play or Apple Store®

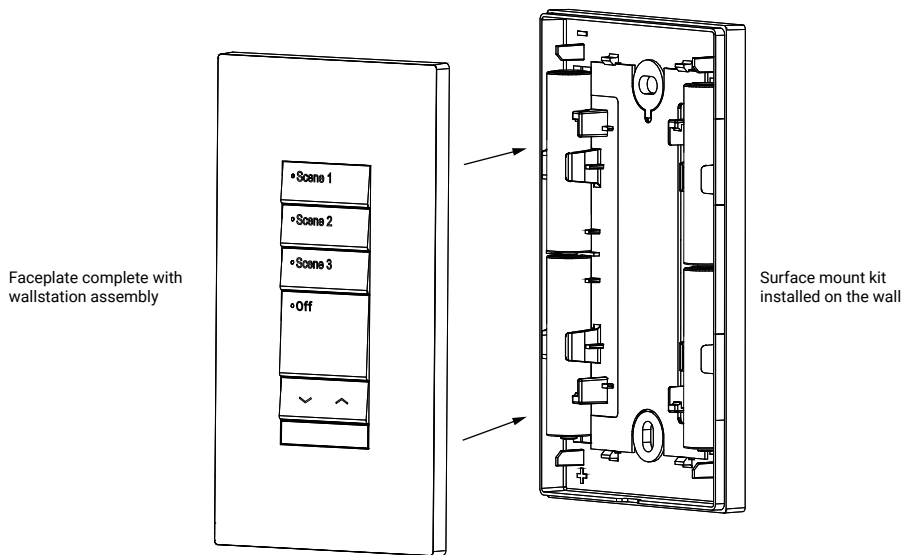
## Dimensional Details



## Mounting Height



## Installation



## System Diagram:

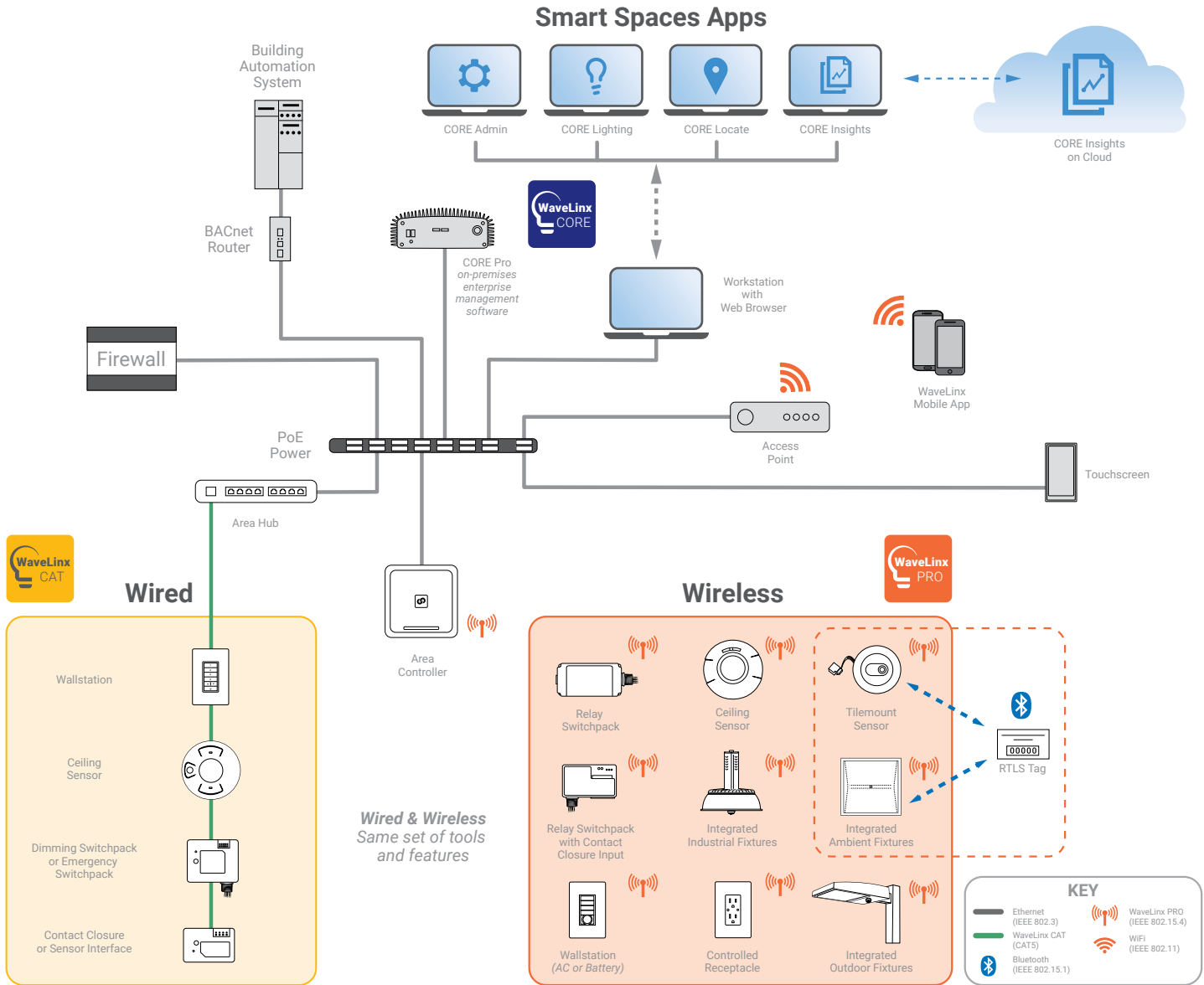
This diagram shows the main components of the WaveLinX connected lighting system with CAT and PRO devices.

The PRO devices communicate using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinX Area Controller (WAC) is required for power and data access to the building lighting network.

The CAT devices communicate over the category 5 based communication bus and control the light fixtures using a relay (on/off) and 0-10V output (dim/raise).

WaveLinX Area Controllers (WAC) communicate with WaveLinX CORE Apps over the Ethernet network.

[View WaveLinX Network and IT Guidance Technical Guide](#)



**Control Systems**  
• WaveLinX