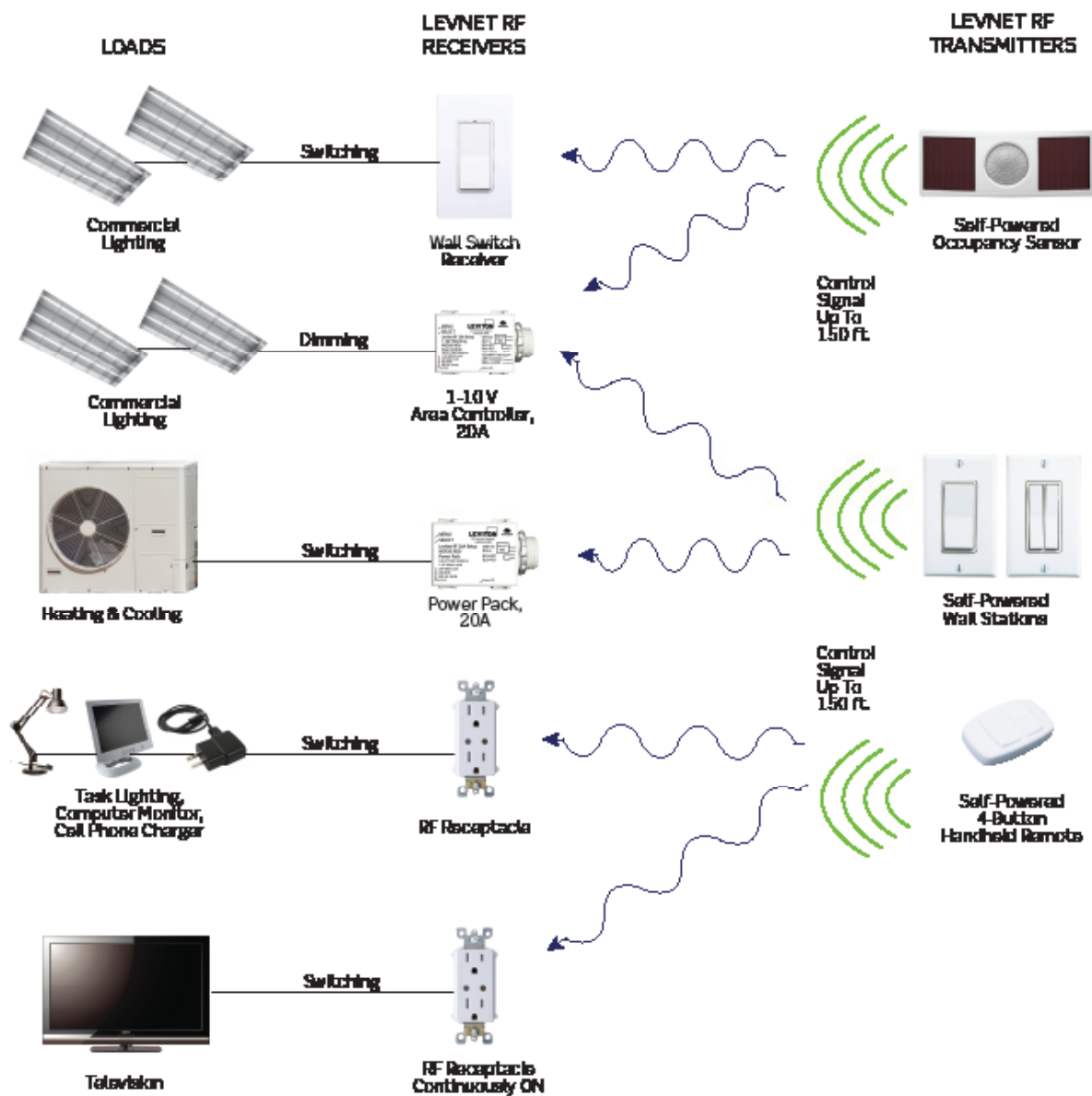


HOW TO PUT IT ALL TOGETHER

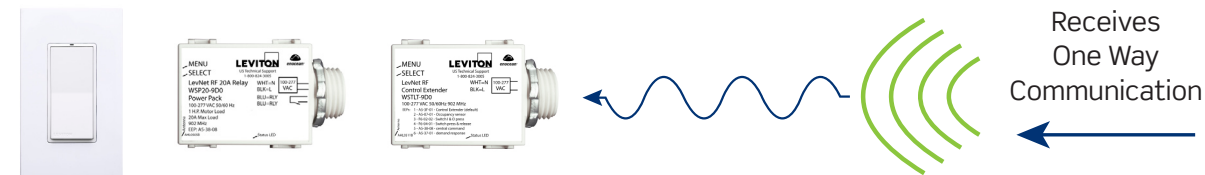
TIP: A good way to visualize your wireless system is to imagine that the "wires" connecting each device are invisible wires or "unique addresses."



STEP 1 Determine what **LOADS** you want to control — lighting, HVAC, lamp, TV, etc.

STEP 2 Pick the appropriate **RF RECEIVER**

LevNet RF Wireless/Wired-In Receivers



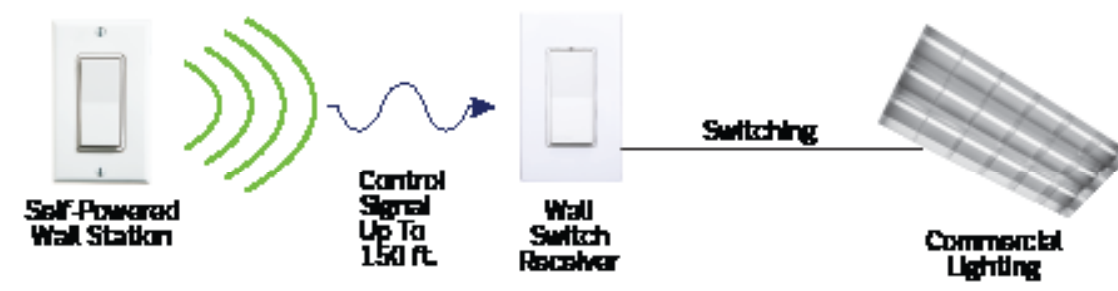
STEP 3 Pick the appropriate **Wireless Self-Powered RF TRANSMITTER** (sensor or switch)

LevNet RF Self-Powered Wireless Transmitters

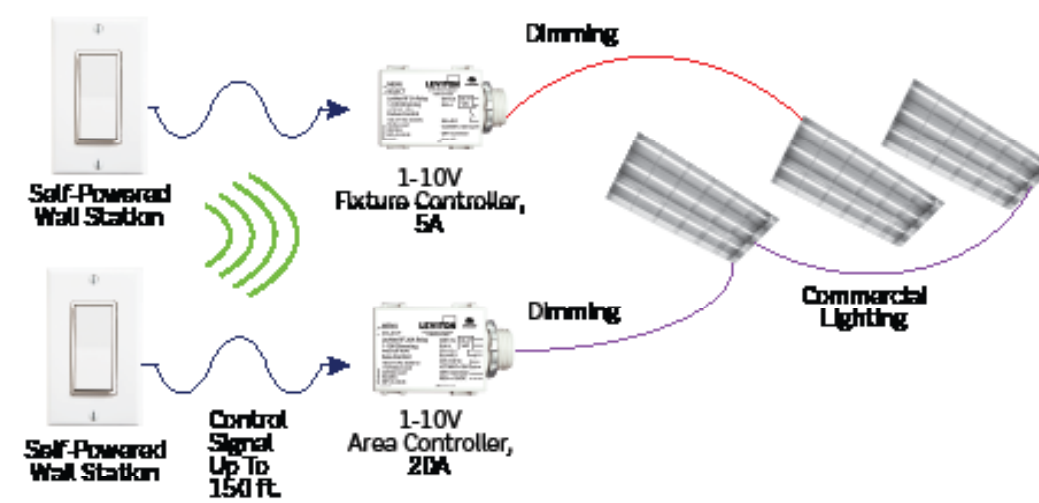


BASIC LEVNET RF SOLUTIONS

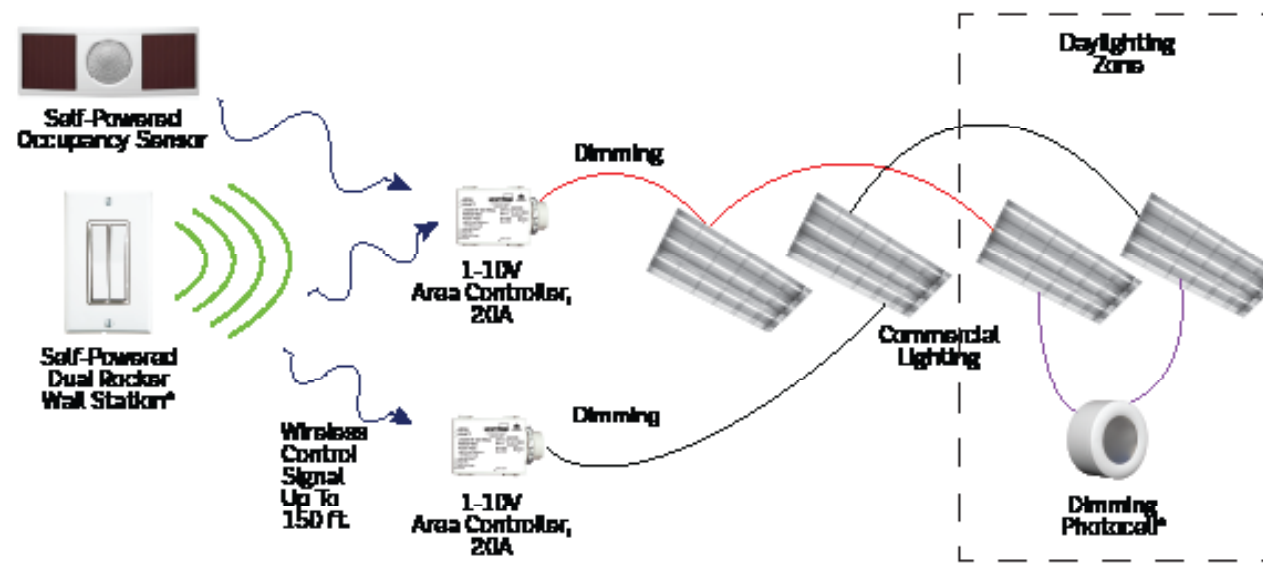
3-Way or Multi-Location Switching



1-10V Dimming

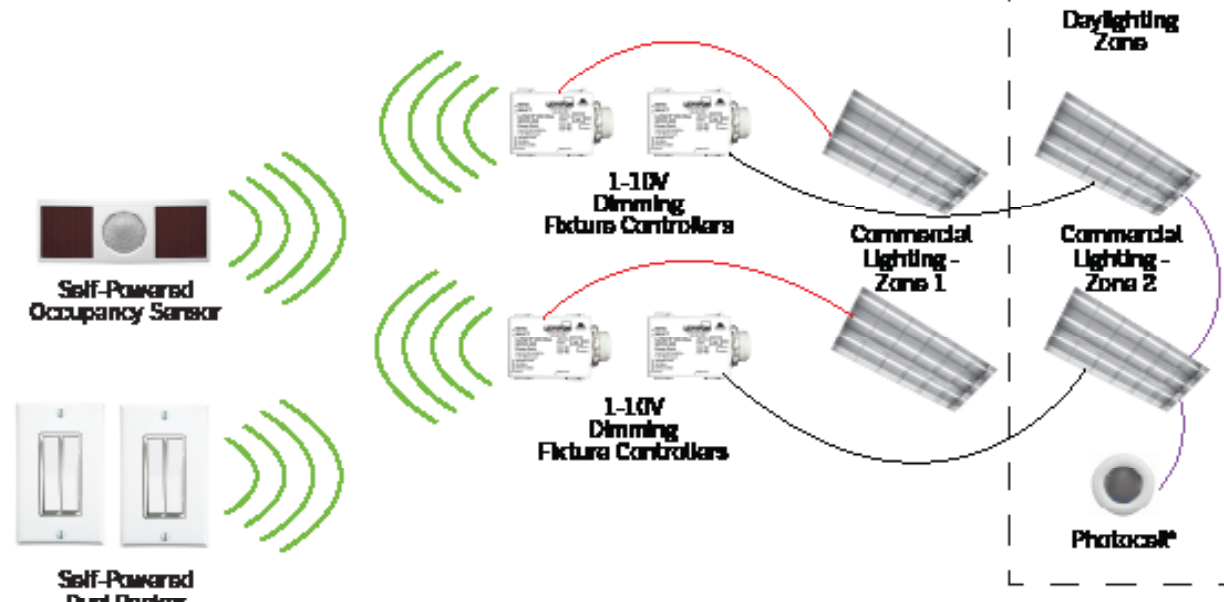


Dimming with Occupancy and Daylighting - Hybrid Area Control

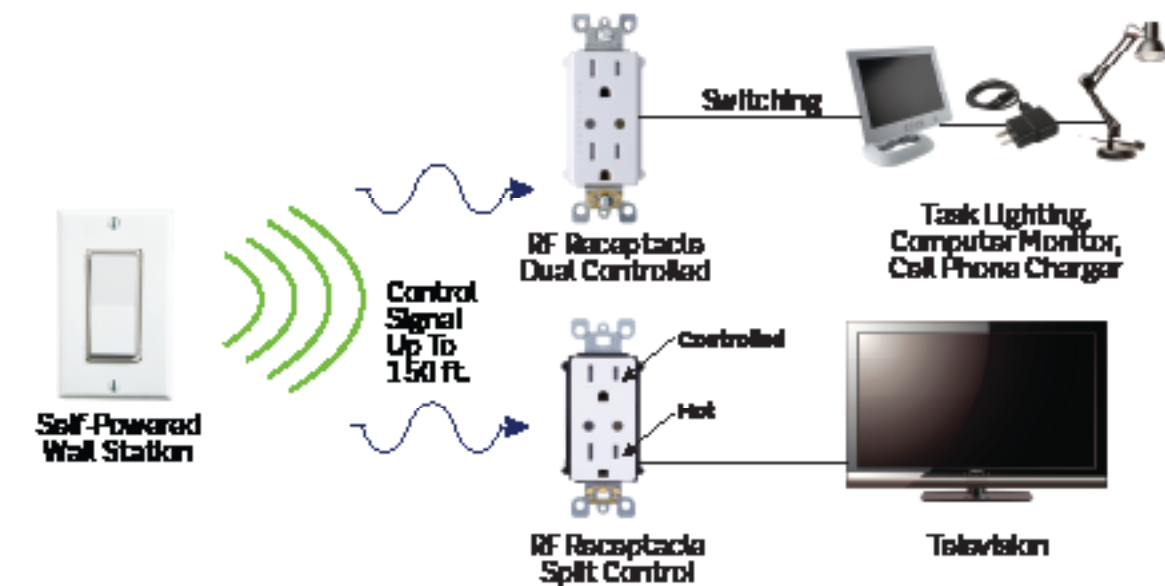


*Priority given to the lowest daylighting level

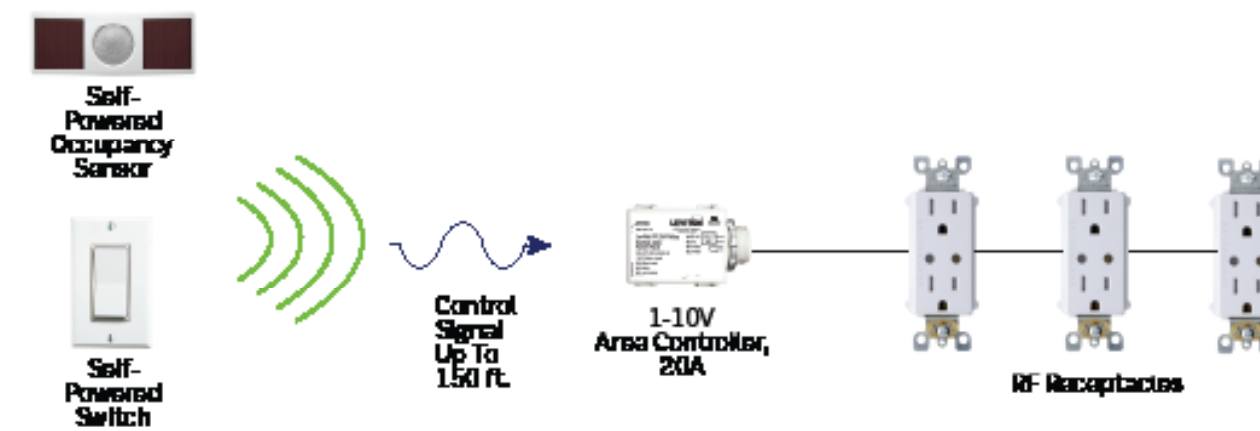
Dimming with Daylighting - Hybrid Individual Fixture Control



*Priority given to lowest daylighting level



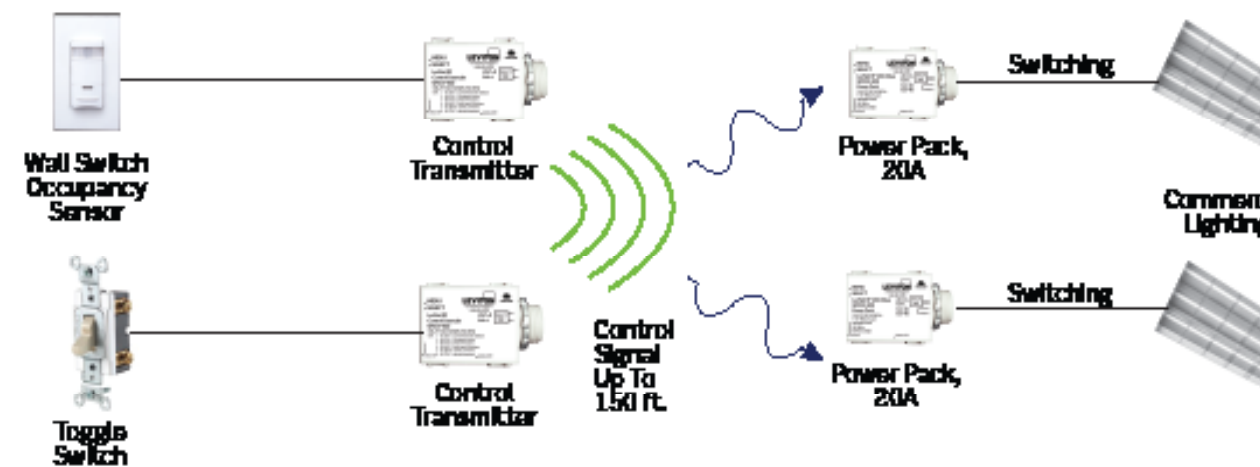
Energy Code Compliant Plug Load Control



Motor Load Control



Transmitter Hybrid Control



- LEVITON**
- Dedicated technical support via phone at 1-800-959-6004
 - Factory commissioning service
 - Field service engineers for top-level support
 - Lighting control specialists at your disposal
 - Find more exclusive, no-cost design tools at www.leviton.com/esdesign
 - orders — go to www.leviton.com/asap
 - **ASAP Lighting Design Software** — point-and-click software allows you to quickly and simply design, specify and enter orders — go to www.leviton.com/ezlearn
 - **ez-learn™** — get Leviton smart from the comfort of your home or office with this exclusive 24/7 online training — go to www.leviton.com/ezlearn
 - **Lightlogger® Program** — get an accurate estimate of your energy-savings potential with this exclusive payback analysis tool — go to www.leviton.com/logger
 - **Occupancy Sensor Layout Services** — have a team of experts create occupancy sensor layouts directly on your CAD drawings, complete with a list of equipment at no cost — go to www.leviton.com/dollarsensors
 - **Dollars & Sensors® Online Energy Audit Tool** — makes energy audits easier than ever — use your smart device (Android, Apple, Windows or BlackBerry) to enter audit information and your desktop to generate ROI reports, analyses, Bill of Materials, and a submitted package — go to www.leviton.com/dollarsensors
- EXCLUSIVE WEALTH OF RESOURCES:**
 Dollars & Sensors® Online Energy Audit Tool — makes energy audits easier than ever — use your smart device (Android, Apple, Windows or BlackBerry) to enter audit information and your desktop to generate ROI reports, analyses, Bill of Materials, and a submitted package — go to www.leviton.com/dollarsensors
- SERVICE AND SUPPORT DURING EVERY STEP OF THE PROCESS:**
 Only Leviton has the service and support to help you create a lighting control system that does exactly what you want it to do while saving electricity, meeting codes and standards, and even gaining rebates.



LEVITON

LevNet RF™ 902 MHz Wireless Self-Powered Solutions Product Guide

THE FUTURE IS ON™

LEVNET RF 902 MHZ WIRELESS SELF-POWERED SOLUTIONS



SELF-POWERED + RADIO FREQUENCY = TRUE WIRELESS

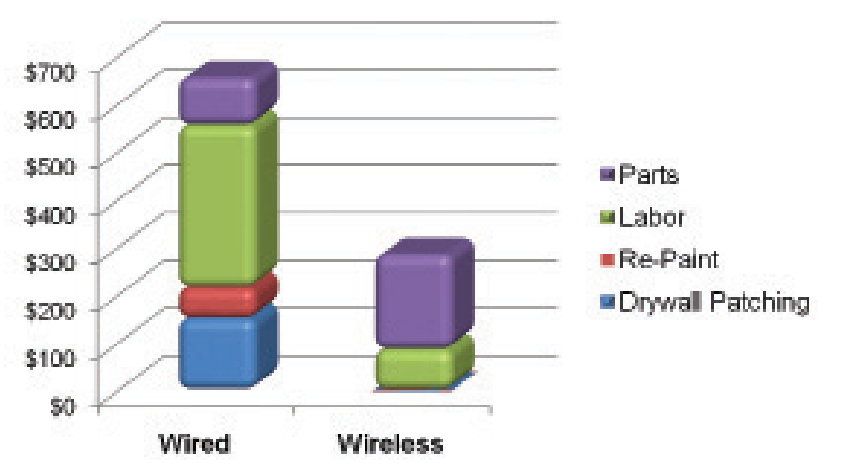
Self-powered LevNet RF transmitters operate indefinitely without external power or batteries. Transmitters communicate with LevNet RF receivers via radio frequency. Operating in the 902 MHz band provides minimal competing traffic, enhanced reliability and greater transmission range over other wireless technologies.

GREEN SOLUTIONS

- Energy Savings**
- Lowest power consumption on wireless receivers at less than one Watt per device
 - Place virtually anywhere and control any compatible wireless device within range
 - Self-powered and self-charging, uses zero external power consumption to operate
- Material Savings**
- Reduce materials and time spent on installation with no new wires to run
 - Reduce monthly testing and maintenance costs

* Leviton is part of the EnOcean Alliance. LevNet RF Solutions are compatible with other EnOcean Alliance wireless devices.

WIRED VS. WIRELESS COSTS



PUTTING TOGETHER A LEVNET RF 902 MHZ SYSTEM

- STEP 1** Determine what **LOADS** you want to control - lighting, HVAC, lamp, TV, etc.
- STEP 2** Pick the appropriate **RF RECEIVER** mounting style
- STEP 3** Pick the appropriate wireless self-powered **RF TRANSMITTER** (sensor or switch)
- STEP 4** **PAIR** the devices to communicate with each other

LevNet RF Self-Powered Wireless Solutions	
Frequency	902 MHz
Range	50-150 feet (Design to 75 feet)
Listings	FCC Certified for Wireless Communication (U.S.), I.C. Certified (Canada)
Warranty	Limited 5-year

RECEIVERS

WALL SWITCH

ADVANCED WALL SWITCH RECEIVERS with Color Change Kit	
WSS20-N9N WSS20-G9N	
Use for larger rooms with multiple loads. Pairing for rocker, momentary and toggle.	
Input Voltage	120-230-277VAC
Power Consumption	120V < 1/2 Watt; 277V < 2/3 Watt
Memory	Stores up to 20 Transmitter IDs
Button Pairing Modes	Rocker, Momentary and Toggle
Vacancy Confirmation	30 seconds
Mode	Presentation/Viewing
Time Delay	2 min (test); 10, 20, 30 min
Load Rating	General Duty: 10A LED: 400W @ 120V Incandescent: 800W @ 120V Fluorescent Ballasts: 1200VA @ 120V, 2700VA @ 277V Motor: 1/4 HP Load @ 120V For non-neutral models: 25W minimum load required
Additional Listings	ETL/cETL: UL508, CA Title 24 Compliant, CAN/CSA C22.2 #14

All WSS20 models ship with a Color Change Kit which includes a White, Ivory and Light Almond faceplate. Gray and Ebony faceplates available in quantities of 25.

PRODUCT COMPATIBILITY MATRIX

	SENSORS		SWITCHES			CONTROL EXTENDER
	WSC12-M9N	WSWDR-H9W	WSS0S-S9	WSS0S-D9	WSS0S-R9W	WSTLT-9D0
Wall Switch Receivers	X	X	X	X	X	X
Relay Receivers	X	X	X	X	X	X
RF Receptacles	X	X	X	X	X	X
Dimming Controllers	X	X	X	X	X	—

X - Indicates compatibility

DID YOU KNOW?

- LevNet RF wireless self-powered sensors and switches use **zero power for zero utility cost.**
- In standby power consumption alone, LevNet RF **saves 70% over the competition** month after month after the install. LevNet RF uses less than one Watt in standby mode to operate a receiver.
- LevNet RF offers a **no-neutral design for ALL retrofit installations.**
- You receive **LEED points for wireless control AND no batteries** when you install LevNet RF wireless self-powered sensors.

RECEIVERS

POWER PACK

LINE VOLTAGE POWER PACK WSP20	
Memory	Stores up to 20 Transmitter IDs
Power Supply Input	100-277VAC, 50/60 Hz
Max Loads/Contact Rating	General Duty: 20A Tungsten (Incandescent): 20A Fluorescent Ballast: 20A Motor Load: 1HP Power Up State: Selectable N.O. or N.C.
Output Channels	1 FORM A Latching Relay, N.O. or N.C.
Time Delay	15 min
Additional Listings	ETL (U.S.) UL 60730, UL 2043 Plenum rating, ETL (Canada): CSA C22.2 #1405, CE (International): IEC 60730



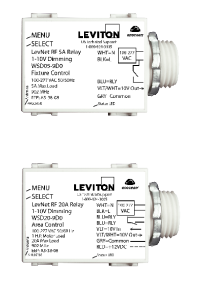
RF RECEPTACLE

	SPLIT DUPLEX RECEIVER WSG15-S9W	DUPLEX RECEIVER WSG15-D9W
	Power Supply	125VAC, 60Hz, 15A
Power Consumption	120VAC @ 10mA AC (320mW typical)	
Switched Side: Max Loads/Constant Ratings	General Use/Resistive: 15A Incandescent: 1800W Inductive: 1800VA 1/2HP, 120VAC	
Controlled	Single (Top)	Dual
Listings	CA Title 24 Compliant, ASHRAE Standard 90.1 2010 Compliant, TR Receptacle	



1-10V DIMMING CONTROLLERS

	5A FIXTURE CONTROLLER WSD05-9D0	20A AREA CONTROLLER WSD20-9D0
	Memory	Stores up to 20 Transmitter IDs
Power Supply Input Rating	100-277VAC, 50/60 Hz	
Output Rating	—	10mA source
Input Channels	—	1 - 1-10V input signal 1 mA source
Output Channels	1 - latching FORM A relay, selectable N.O. or N.C. power up state 1 - 1-10V output signal (sink 100mA, source 1mA)	
Load Rating	5A	20A



TRANSMITTERS

SENSORS

	CEILING MOUNT OCCUPANCY SENSOR WSC12-M9N	WALL MOUNT OCCUPANCY SENSOR WSWDR-H9W
Coverage	1,200 SF	1600/2200 SF
Power Consumption	Zero (Self-Powered)	
Transmission	60 seconds (+/- 10 sec)	30 minutes @ 0.5FC (5 LUX); 15 minutes @ 1.0FC (10 LUX); 30 seconds @ 20FC (200 LUX)
Minimum Light Required	5FC (50 LUX for auto-OFF only)	1.5FC (15 LUX)
Minimum Charge Time to Begin Operation	1 minute @ 20FC (200 LUX)	1 minute @ 1.5FC (15 LUX); 5 seconds @ 20FC (200 LUX)
Maintain Charge Time	3 hours per 24 hours @ 20FC (200 LUX)	
Operating Life at Full Charge	80 hours	48 hours
Additional Listings	CA Title 24 Compliant, FCC Certified for Wireless Communication (U.S.), I.C. Certified (Canada)	



WALL STATIONS

	SINGLE ROCKER DECORA® WALL STATION WSS0S-S9x	DUAL ROCKER DECORA® WALL STATION* WSS0S-D9x	HANDHELD 4-BUTTON REMOTE WSS0S-R9W
Buttons	2 Buttons (1 Rocker)	4 Buttons (2 Rockers)	4 Buttons (2 Rockers)
Output Channels	Only limited by number of Receivers in range		
Addressing	Factory set unique ID (1 of 4 billion)		

* Available in White (-W), Ivory (-I), Light Almond (-T), Gray (-G) and Ebony (-E). Note: Wall Stations are both switches and dimmers depending on the receiver they are paired to - see the Wall Station data sheet for details.



CONTROL EXTENDER

CONTROL TRANSMITTER WSTLT-9D0	
Communicates with receivers that control virtually any ON/OFF device	
Power Supply Input	100-277VAC, 50/60 Hz
Addressing	Factory set unique ID (1 of 4 billion)
Additional Listings	UL 60730 (Safety), UL 2043 (Plenum), CSA C22.2#14-05 (Safety), CE-IEC 60730, CA Title 24 Compliant

