Manuals+

legrand LMSW-210 Low Voltage Dimmer Switch User Guide
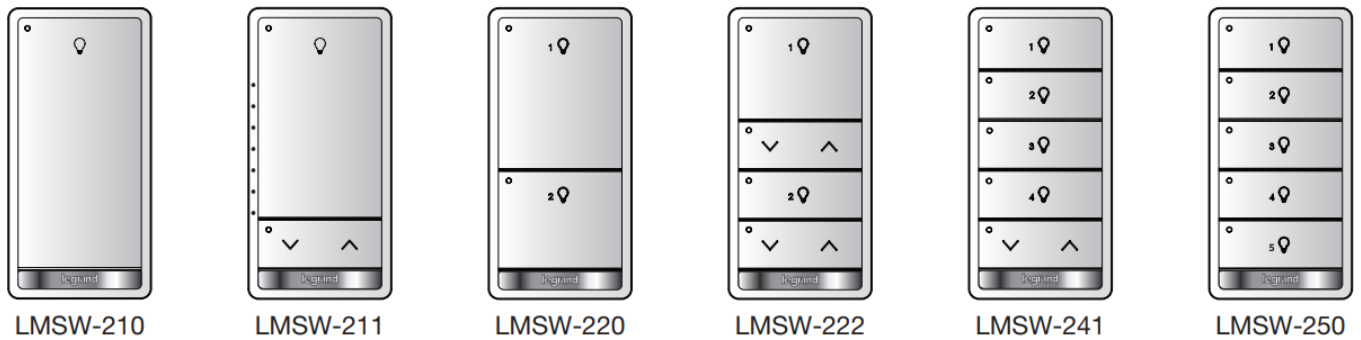
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L7 legrand®

LeGrand LMSW-210 Low Voltage Dimmer Switch

Specifications

- **Voltage:** 24VDC
- **Current Consumption:**5mA
- **Power Supply:** Wattstopper Room Controller
- **Connection to the DLM Local Network:** 2 RJ-45 ports
- **DLM Local Network characteristics when using LMRC-11x/2xx room controllers:** Low voltage power provided over Cat 5e cable (LMRJ); max current 800mA. Supports up to 64 load addresses, 48 communicating devices, including up to 4 LMRC-10x series and/or LMPL-101 controllers. Free topology up to 1,000' max.
- **Environment:** For Indoor Use Only
- **Operating Temperature:**32° to 131°F (0° to 55°C)
- **Storage Temperature:**23° to 176°F (-5° to 80°C)
- **RelativeHumidity**5 to 95% (non-condensing) Patent Pending

Catalog Numbers LMSW-210, LMSW-211, LMSW-220, LMSW-222, LMSW-241, LMSW-250

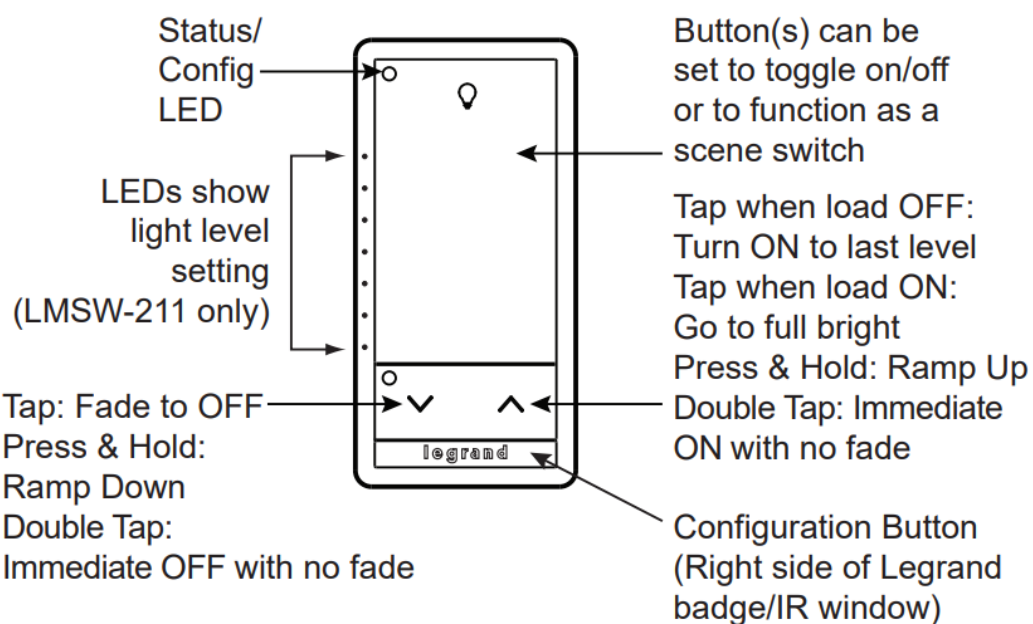LMSW-210   LMSW-211   LMSW-220   LMSW-222   LMSW-241   LMSW-250

This unit is pre-set for Plug n' Go™ operation, adjustment is optional.

For full operational details, adjustment and more features of the product, see the DLM System Installation Guide provided with Wattstopper room controllers, and also available at www.legrand.us/wattstopper.

Installation shall bebyh all applicable regulations, local and NEC codes.

Wire connections shall be rated suitable for the wire size (lead and building wiring) employed. For Class 2 DLM devices and device wiring: To be connected to a Class 2 power source only. Do not reclassify and install as Class 1, or Power and Lighting Wiring. Do not apply cleaning solvent directly onto unit. Apply cleaning solvent onto a cloth, then wipe the unit to clean it.

BUTTONS AND INDICATORS

Status/Config LED

LEDs show light level setting (LMSW-211 only)

Tap: Fade to OFF
Press & Hold: Ramp Down
Double Tap: Immediate OFF with no fade

Button(s) can be set to toggle on/off or to function as a scene switch

Tap when load OFF: Turn ON to last level
Tap when load ON: Go to full bright
Press & Hold: Ramp Up
Double Tap: Immediate ON with no fade

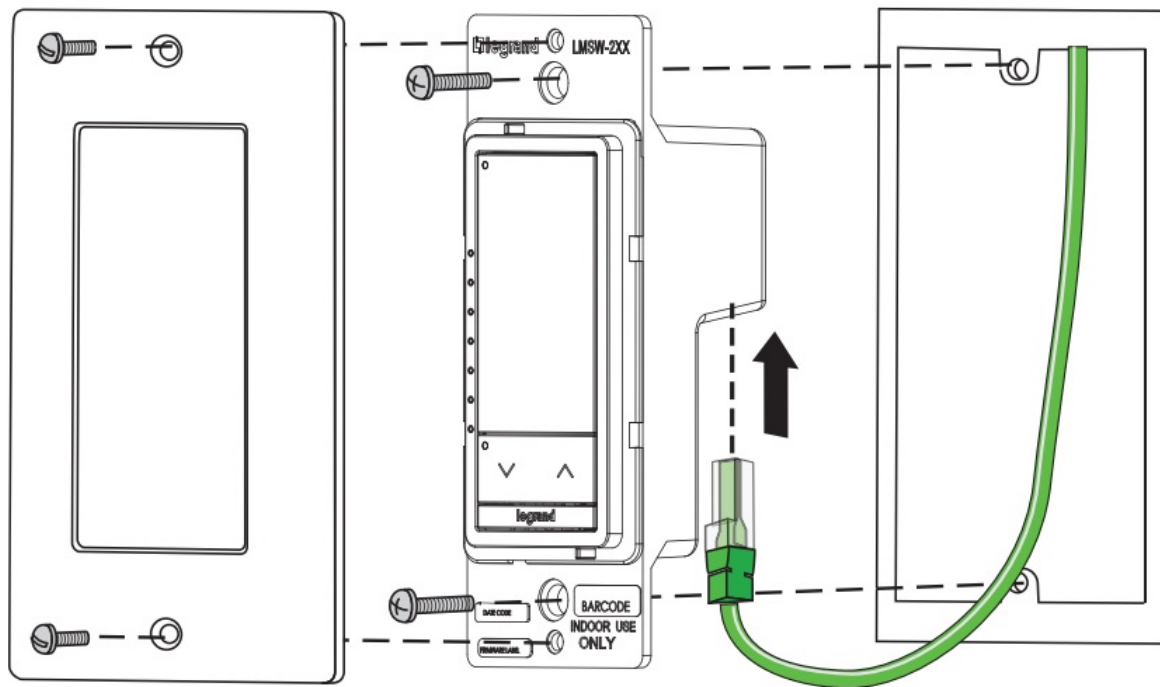Configuration Button (Right side of Legrand badge/IR window)

Active Dim function:

When a scene button on any switch is tapped, the rockers in the room will temporarily be

assigned to the loads assigned to that button if the rocker is not already assigned to them, thereby allowing the user to dim the selected scene. The switch LED flashes to indicate status. After five seconds, the rocker reverts to its normal load assignments. When a load button on a switch is double-tapped, all rockers in that room will go into active dim mode as well (again for 5 seconds). Active Dim can be disabled on LMSW-2xx switches using LMCS-100 software.
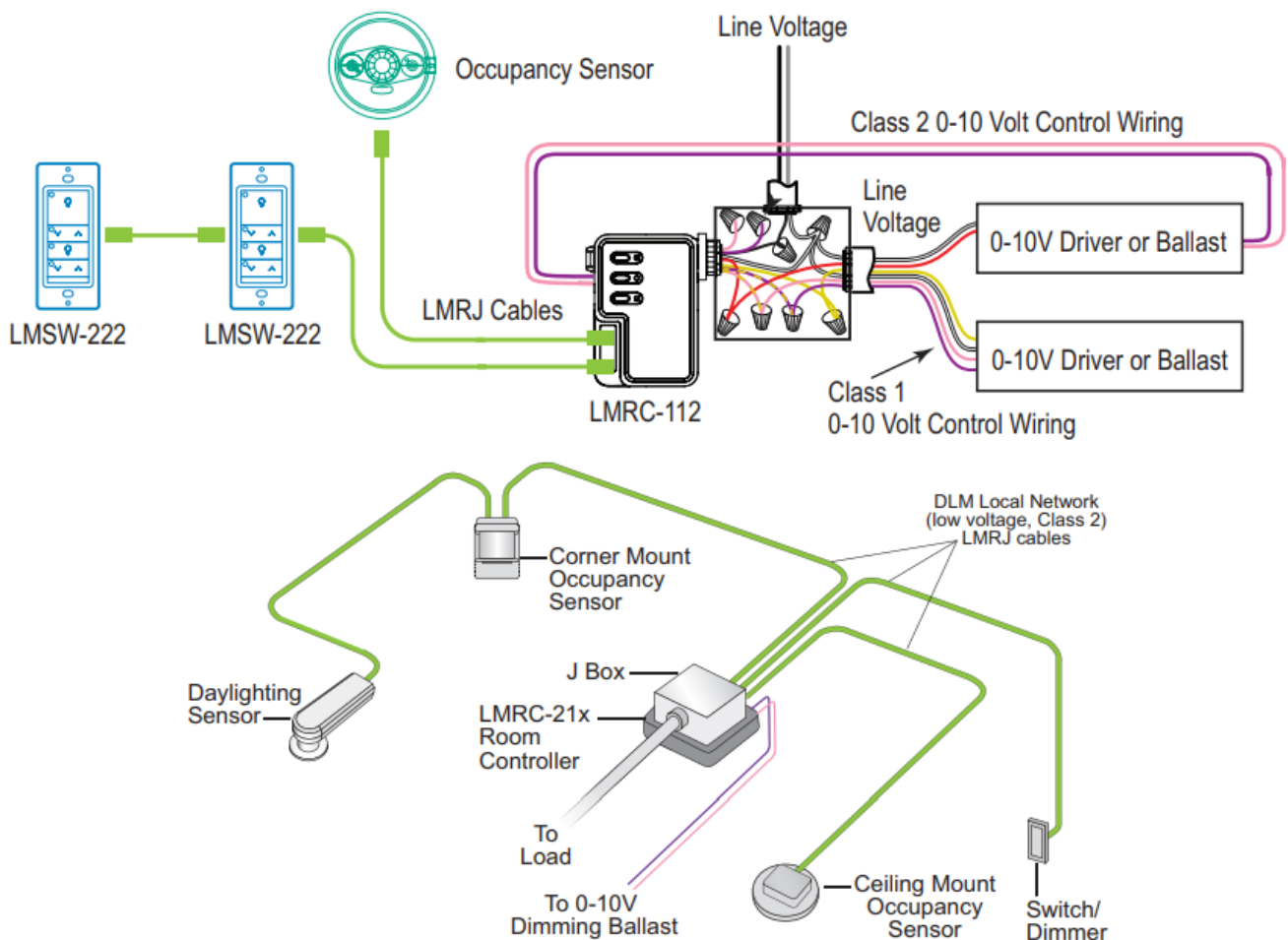
MOUNTING THE SWITCH

CAUTION: TO CONNECT A COMPUTER TO THE DLM LOCAL NETWORK, USE THE LMCI-100. NEVER CONNECT THE DLM LOCAL NETWORK TO AN ETHERNET PORT – IT MAY DAMAGE COMPUTERS AND OTHER CONNECTED EQUIPMENT.

CONNECTIVITY

The illustrations below show examples of free-topology wiring. The LMSW switches communicate to all other Digital Lighting Management devices connected to the low voltage DLM Local Network, regardless of their position on the DLM Local Network.

Occupancy Sensor

Line Voltage

Class 2 0-10 Volt Control Wiring

Line Voltage

0-10V Driver or Ballast

0-10V Driver or Ballast

LMRJ Cables

Class 1 0-10 Volt Control Wiring

LMSW-222   LMSW-222

LMRC-112

Corner Mount Occupancy Sensor

DLM Local Network (low voltage, Class 2) LMRJ cables

J Box

Daylighting Sensor

LMRC-21x Room Controller

To Load

To 0-10V Dimming Ballast
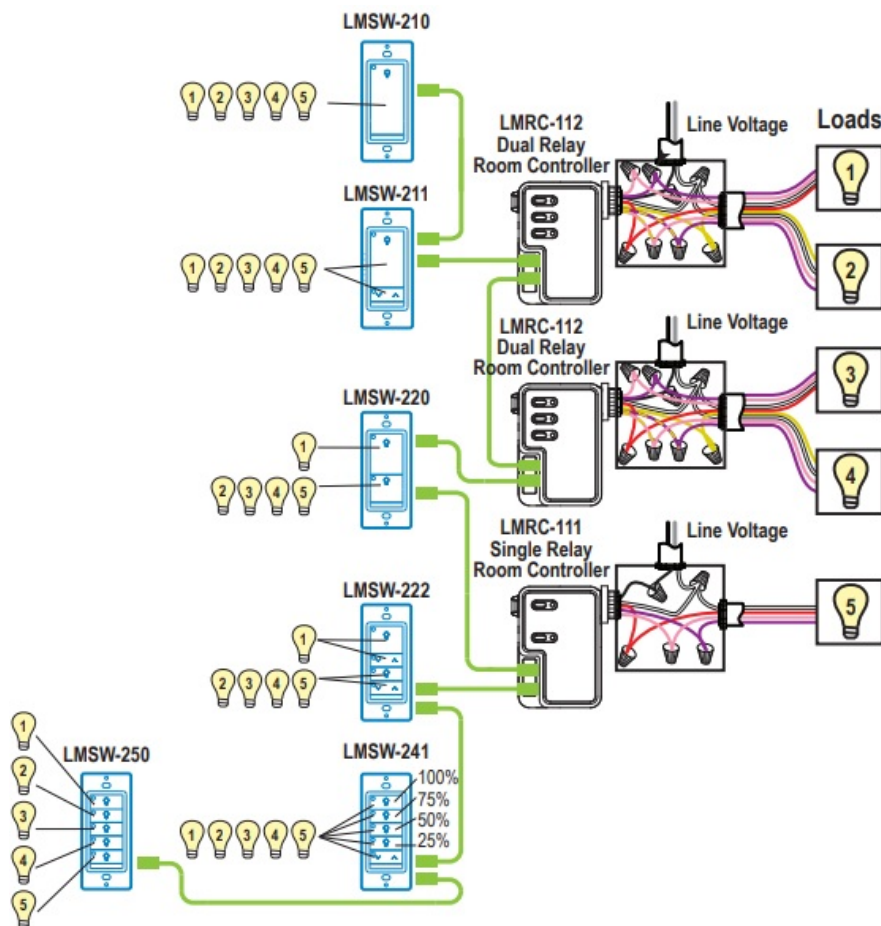
Ceiling Mount Occupancy Sensor

Switch/ Dimmer

PLUG N' GO OPERATION (PNG)

Each load is automatically assigned to a switch button.

- If there are more buttons on a switch than there are loads, the extra button(s) do nothing and blink when pressed.
- If there are fewer buttons on a switch than there are loads, the last button controls all remaining loads.
- The LMSW-241 auto-configures as a scene switch for all lighting loads. A button's scene percentages can be changed by pressing and holding for 5 seconds while the room is in the desired state.

The illustration shows the Plug n' Go load binding for each LMSW switch in a room that has up to 5 loads.

UNIT ADJUSTMENT – PUSH N' LEARN (PNL)

Load Selection Procedure

A configuration button allows access to our patented Push n' Learn™ technology to change the binding relationship between switch buttons and loads.

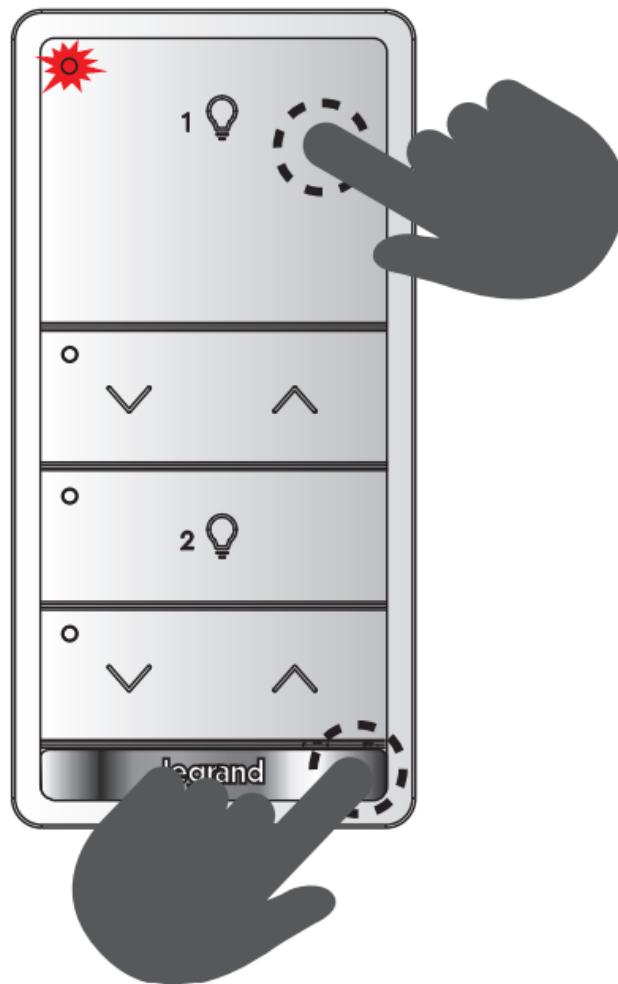**Step 1:** Unlock Configuration Button

1. The configuration button will lock after any of the following events:
    1. PnG lock command transmitted (occurs upon PnL exit)
    2. After twelve hours of being unlocked (first boot or a manual unlock)
    3. The button is manually locked (as described in Step 5).
    To check if it is unlocked, press the configuration button on the right side of the Legrand badge. If the top button LED flashes red, the configuration button is unlocked. Skip to Step 2 – Enter Push n' Learn.

2. If the top button LED did not flash red, the configuration button is locked. Press-and-hold the configuration button and the top-most button on the switch simultaneously until the top button LED flashes red (approximately 3 seconds). This signals that the configuration button is unlocked.

Step 2: Enter Push n' Lear.n

1. Press and hold only the configuration button for 3 seconds, until the Red LED on the switch begins to blink.
2. When you release the switch's configuration button, the red LED on other communicating DLM Local Network devices begins to blink.
3. The DLM Local Network is now in P&L mode. The Red LEDs continue to blink until you exit PnL mode.
4. All loads in the room turn OFF after entering PnL. After one second, one load turns ON. This is Load #1, which is bound to switch button #1 as part of the Plug n' Go factory default setting. The White LED will be ON for all switch buttons and sensors that are bound to this load.

NOTE: For the top button, since it is blinking red while in PnL, the LED for that button will alternate between Red and White if the button is bound to the load or Red and off if the button is not bound to the load

Step 3: Load selection

1. Press and release the configuration button to step through the loads connected to the DLM Local Network. As each load turns ON note which devices (switch buttons and sensors) are showing the white LED. These devices are currently bound to the load that is ON.
2. To unbind a switch button from a load, press the switch button while its white LED is ON. The white LED turns OFF to indicate the button no longer controls the load that is currently ON.
3. Pressing the switch button again while the load is ON rebinds the load to the button, and the white LED illuminates.

Step 4 Step 3: Exit Push n' Learn

- Press and hold the configuration button until the red LED turns off, approximately 3 seconds.

Step 5 Lock Configuration Button (Optional)

- If the configuration button is unlocked and you wish to manually lock it, press and hold both the configuration button and the top-most button on the switch simultaneously until the top button LED lights red (approximately 3 seconds).

TROUBLESHOOTING

Loads do not operate as expected.

Switch button LEDs don't light.	1. Check to see that the switch is connected to the DLM Local Network. 2. Check for 24VDC input to the switch: Plug in a different DLM device at the switch location. If the device does not power up, 24VDC is not present. • Check the high voltage connections to the room controller. • If high voltage connections are good and high voltage is present, recheck DLM Local Network connections between the switch and the room controller.
The wrong lights are controlled.	1. Configure the switch buttons to control the desired lights using the Push n' Learn adjustment procedure.
The button doesn't actuate	1. Make sure the switch frame and button are assembled properly. 2. Make sure that the wall plate is not pinching the frame.
LEDs turn ON and OFF, but the load doesn't switch	1. Make sure the device is not in PnL. 2. Check load connections to the room controller.

WARRANTY INFORMATION

Wattstopper warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Wattstopper for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.
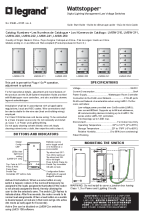
FAQs

Q: Can I use cleaning solvent directly on the unit?

A: No, apply cleaning solvent onto a cloth and then wipe the unit to clean it.

Q: How many loads can be assigned to each switch button in Plug N' Go operation?

A: Each LMSW switch can have up to 5 loads assigned in Plug N' Go operation.

Documents / Resources

	[legrand LMSW-210 Low Voltage Dimmer Switch](#) [[pdf](#)] User Guide LMSW-210, LMSW-211, LMSW-220, LMSW-210 Low Voltage Dimmer Switch, LMSW-210, Low Voltage Dimmer Switch, Voltage Dimmer Switch, Dimmer Switch, Switch

References

- [User Manual](#)

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🏷 Dimmer Switch, legrand, LMSW-210, LMSW-210 Low Voltage Dimmer Switch, LMSW-211, LMSW-220, Low Voltage Dimmer Switch, switch, Voltage Dimmer Switch

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