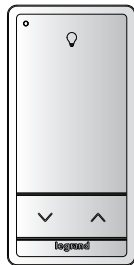


## Catalog Numbers • Les Numéros de Catalogue • Los Números de Catálogo: LMSW-610-S, LMSW-611-S, LMSW-622-S, LMSW-641-S

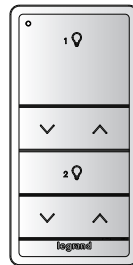
Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China



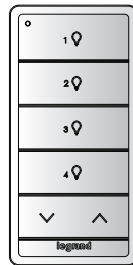
LMSW-610-S



LMSW-611-S



LMSW-622-S



LMSW-641-S

**Once paired to a wireless room controller or wireless bridge, adjustment via the DLM Configuration App or LMCS-100 may be required to meet the local energy code where installed.**

The DLM Wireless Slim Switches are wireless battery powered wall switches intended for operation with wireless room controllers or wireless bridges in hybrid rooms.

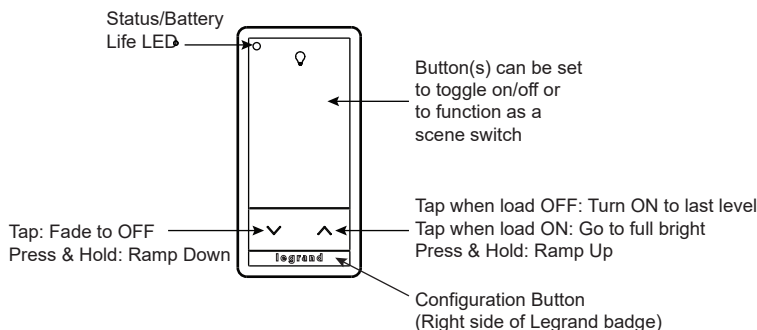
Do not apply cleaning solvent directly onto unit. Apply cleaning solvent onto a cloth, then wipe the unit to clean it.

**NOTE:** Installation shall be in accordance with all applicable regulations, local, and NEC codes

## SPECIFICATIONS

Power Supply .....	Battery powered, CR2032 Battery, 3VDC
Connection to DLM Network....	Wireless via LMRC-611 room controllers ..... or LMBC-650
Wireless Radio .....	Single, Concurrent 802.15.4 and ..... Bluetooth Low Energy, 2.4GHz
Wireless Communication	
IPv6 Mesh (6LoWPAN) Range.....	up to 60 ft.
Bluetooth low energy Range .....	up to 60 ft.
60 ft. max. between LMSW-6xx-S and room controller or bridge	
Wireless Encryption.....	AES-128 bit symmetric key
Environment .....	For Indoor Use Only
Operating Temperature .....	32° to 140°F (0° to 60°C)
Storage Temperature .....	23° to 140°F (-5° to 60°C)
Relative Humidity .....	5 to 95% (non condensing)
Compliance/Regulatory	
UL, cUL, FCC, IC	
RoHS	
Bluetooth certified	

## BUTTONS AND INDICATORS



LED Color	Function
Red/Green/Blue Flash	Unit Boot Up
Green, 1 Blink	Config Button Pressed
Blinking Green	Push to Pair Mode
Red, 1 Blink	In normal operation, if any button press, indicates low battery Also blinks if Reset button on back is pressed
Blinking Red	Push n' Learn Mode
White	Button or Rocker pressed during normal operation

## INSTALLING THE SWITCH

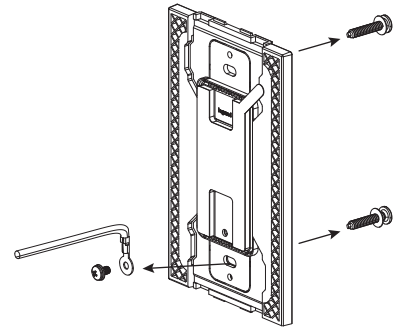
DLM Slim Switches support two installation methods: surface mount or wall-box mount.

**NOTE:** Before mounting, the battery protection tab should be removed.

### Surface Mount:

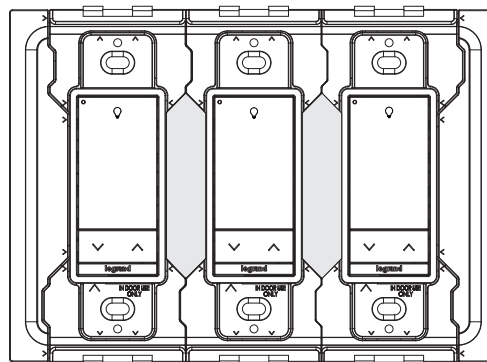
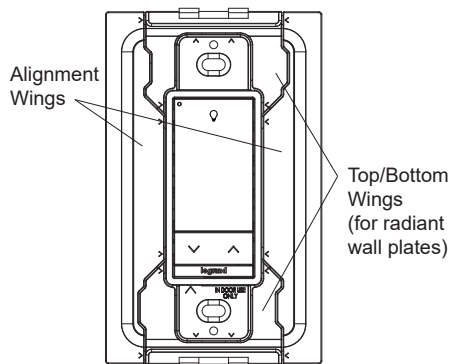
Surface mounting requires use of a Legrand radiant® wall plate (not included). The adhesive pad is suitable for mounting to multiple materials including drywall, metal, wood, glass, and some plastics.

1. Press and jiggle the wall box screws from the rear to remove them from the switch.
2. Use a Phillips head screwdriver to remove the grounding conductor at rear (no grounding is needed for surface mount switches).
3. Peel the adhesive protector off of the rear of the switch.
4. Press the switch firmly into the mounting surface and hold pressure for 5 seconds.
5. Hook the radiant plate on the upper plate mount bracket, then press the bottom of the plate into the switch to snap on the plate.



For **surface mounting in multi-gang applications**, snap-off side alignment wings are available to assist in proper alignment.

1. Press and jiggle the wall box screws from the rear to remove them from the switches.
2. Use a Phillips head screwdriver to remove the grounding conductor at rear of each switch.
3. Twist/cut to remove only the inner wing(s) from each switch in the gang. Do **not** remove the alignment wings that will be on the outer left and right edges. So, for example, in a three gang application, remove the right alignment wing from the left switch, both wings from the middle switch, and the left wing from the right switch, as shown below.
4. Peel the adhesive protector off of the rear of the switch.
5. Install with each switch in contact with the adjacent switch(es). After the first switch has been installed by pressing and holding for 5 seconds, place the next switch at approximately a 45 degree angle (so that the alignment wings contact), and rotate the switch onto the wall, keeping the wings in contact as you do, and pressing for 5 seconds. Continue with any additional switches.
6. Install an appropriately-sized multi-gang Radiant plate. (i.e. 3 switches needs a 3-gang, etc).

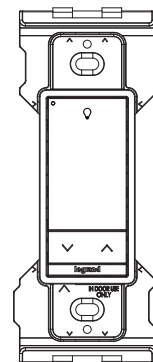


Example of 3 gang installation with alignment wings removed

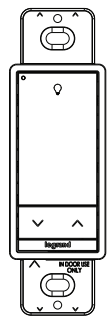
### Wall box mount:

Wall box mounting allows for use of any standard decora-sized wall plate (not included). If using any plate other than a Legrand radiant wall plate, the top and bottom radiant mount wings should be removed from the switch.

1. Connect ground wire if installing next to Class 1 power. If not, there is no need to connect the ground wire (install in compliance with applicable codes).
2. Twist/cut to remove side alignment wings. If not using a radiant wall plate, also remove the top and bottom wings.
3. Use included screws to secure switch to wall box.
4. Install wall plate per manufacturer instructions.



Leave top/bottom wings if using a radiant wall plate

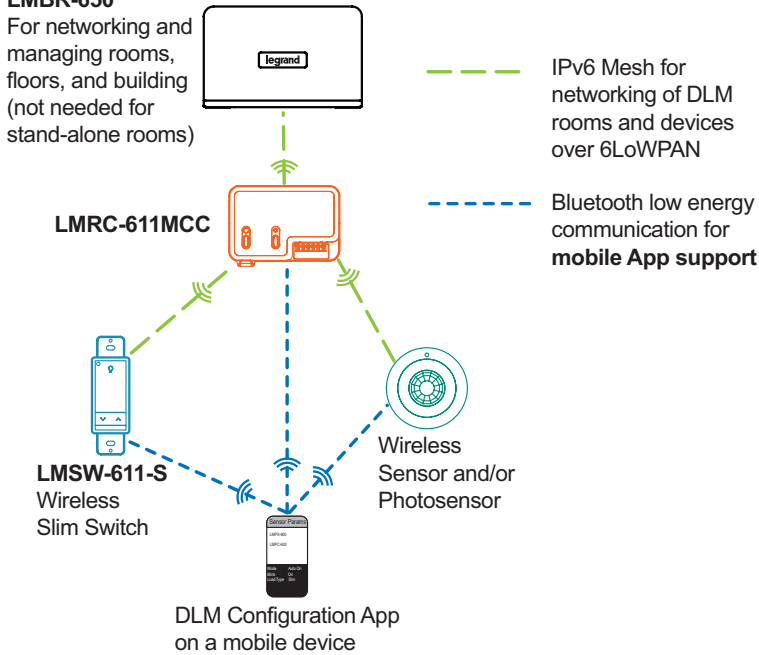


Remove top/bottom wings if using any other wall plate

## WIRELESS ROOM CONNECTION

### LMBR-650

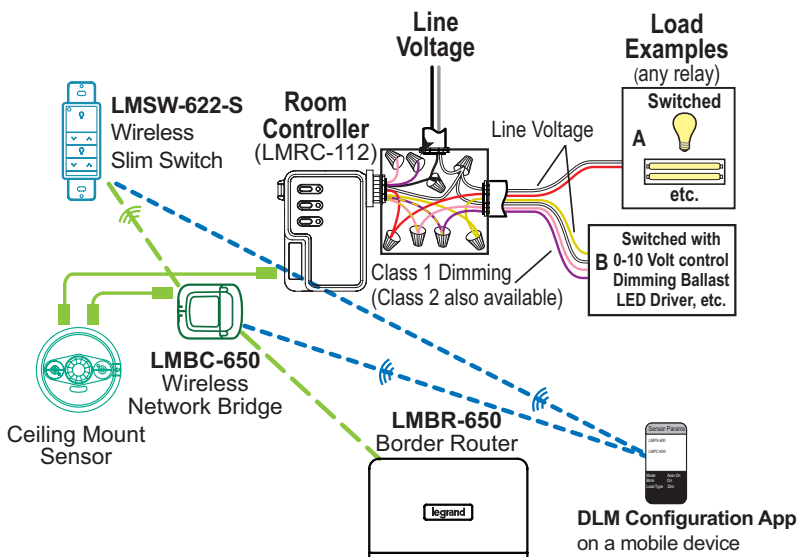
For networking and managing rooms, floors, and building (not needed for stand-alone rooms)



### Distance Recommendations:

60' max between LMSW-6xx-S and mobile device  
60' max. between LMSW-6xx-S and room controller or bridge  
10' minimum and 100' maximum between LMBR-650 and room controller or bridge

## HYBRID ROOM CONNECTION WITH WIRED LIGHTING CONTROL AND DLM SHADING



**Note:** the DLM config app can only connect with the LMBR-650 to update firmware. You need an LMBR-650 and LMCS to commission a Hybrid room.

## IMPORTANT INSTALLATION INFORMATION

To ensure a successful installation and startup of a wireless system, the following steps must be taken by the installing contractor. **Failure to document all device address and locations may delay completion of startup and result in additional startup charges.**

**Key Requirement:** Document **every** Device's MAC Address (at least the last 4 alphanumeric characters). An additional MAC address label is included for the installer to use on a floor plan map. The last four characters are repeated in a larger font, in bold. Keep this document so that the commissioning tech has access at a later date.



Examples of labels

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## SETTING UP A ROOM NETWORK BY PAIRING DEVICES

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Pair wireless devices to a room controller to create an individual room network and enable Plug N' Go operation.

Device pairing can be done by using Push-to-Pair (PtP) mode on the room controller and all other wireless devices, or by using the DLM Config App or LMCS software.

To pair devices in a network, they must all have the same wireless channel and Network ID. By default the channel is 15 and the Network ID is 1. Using Push-to-Pair mode, the Network ID for all devices being paired is migrated to a new number, so that only those device communicate with each other. The channel number will remain at 15.

**NOTE:** LMCS-100 software, version 4.7 or later can also be used to pair devices. However, LMCS-100 requires use of an LMBR-650. Using LMCS, it is possible to change the channel as well as Network ID.

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### DEVICE PAIRING USING PUSH-TO-PAIR MODE

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**NOTE:** After using any of the below pairing methods, the LMSW-6xx-S Configuration button will become soft-locked after a 12-hour period. This prevents a user from accidentally entering Push-to-Pair or Push-n-Learn modes. The Configuration button may be unlocked again by pressing and holding both the Configuration button and the top-most button on the switch for 3 seconds. The device LED flashes green 3 times to confirm manual unlock. After another 12 hours, the Configuration button will soft-lock again. While unlocked, the soft-lock can be manually engaged by pressing-and-holding the Configuration button and the top-most button on the switch for 3 seconds. The device LED illuminates solid green for 3 seconds to confirm manual soft-lock.

#### Push-to-Pair in a room with a single LMRC-611 Room Controller

**NOTE:** Once you enter PtP mode on the room controller, a three minute timer begins. If the Config button on any device in the room is pressed, the timer resets and begins the three minute countdown again. If no Config button is pressed within three minutes, the room controller will exit PtP mode.

1. **Enter PtP mode on the room controller.** Press the Config button three times (within three seconds) until the LED on the room controller flashes green.
2. **Enter PtP mode on the LMSW-6xx-S.** Press the Configuration button (on the right side of the Legrand badge) three times. As with the room controller, the LED on the switch will flash green.
3. **Pair the LMSW-6xx-S.** Press the Configuration button on the LMSW-6xx-S one more time to pair it to the room controller. The load connected to the room controller will toggle once (if the load is OFF, it will turn ON; if ON, it will turn OFF) to indicate that pairing was successful. Also, the LMSW-6xx-S's blinking LED will turn to solid green as another indicator of a successful pairing.

**NOTE:** If there are any wireless sensors, dimmers, or additional switches in the room, repeat steps 2 and 3 for each of those devices so that all devices are paired together in the same network. For each device, the load will toggle during step 3 and its config LED will turn solid green.

4. **Exit PtP mode.** From any device, press the Config button 3 times. After a few seconds, the LED on each Room controller, switch or sensor currently in PtP mode will flash either white or a red/green/blue sequence and reboot, leaving the default network and migrating to the new network. Then, the LED on the room controller will flash blue and the pairing process finishes. The default Network ID on all devices will change to a new number, based on the last four digits of the Mac address on the room controller, and now those devices will communicate only with each other and not any devices which have not been paired.

**NOTE:** It is important to exit PtP mode within the three minute time limit mentioned above. If you do not, none of the device pairings will be remembered and you have to start the process over from the beginning.

#### Push-to-Pair in a room with multiple LMRC-611s

In a room with multiple loads, there may be more than one LMRC-611. They can all be paired to the same room network, allowing the scene switch to set each load to different levels via scenes or load settings. One of the room controllers will become the primary, determining the Network ID and channel settings for all the devices in the network.

1. **Enter wireless Push-to-Pair (PtP) mode on all room controllers.** Press the Config button three times on each LMRC-611 to put them all in PtP mode. The green LEDs will flash on all room controllers. The **first** room controller placed into PtP will become the **primary**.
2. **Pair the room controllers together.** Press the Config button one more time on each room controller **except** for the primary. This indicates to the rooms controllers that they will be paired with each other.

The primary room controller's LED blink rate will double once the first device is paired to it. This faster blink rate is convenient when multiple room controllers are present on the same network. The LED will turn solid on the other controllers being paired.

**NOTE:** If there are more than two room controllers, you have the choice of either placing them all in PtP mode and then pairing them, or pairing the first two controllers and then repeating steps 1 and 2 for each additional controller, leaving the primary controller in PtP mode the entire time.

3. **Enter PtP mode on the LMSW-6xx-S.** Press the Configuration button three times. As with the room controller, the LED on the switch will flash green. Also, the LMSW-6xx-S's blinking LED will turn to solid green as another indicator of a successful pairing.
4. **Pair the LMSW-6xx-S.** Press the Config button on the LMSW-6xx-S one more time to pair it to the room controllers. The loads connected to the room controllers will toggle once (if the load is OFF, it will turn ON; if ON, it will turn OFF) to indicate that pairing was successful.

**NOTE:** If there are any wireless sensors, dimmers, or additional switches in the room, repeat steps 3 and 4 for each of those devices so that all devices are paired together in the same network. For each device, the load will toggle during step 4.

5. **Exit PtP mode.** From any device, press the Config button 3 times. After a few seconds, the LED on each Room controller, switch or sensor currently in PtP mode will flash either white or a red/green/blue sequence and reboot, leaving the default network and migrating to the new network. Then, the LED on the room controller will flash blue and the pairing process finishes. The default Network ID on all devices will change to a new number, based on the last four digits of the Mac address on the primary room controller, and now those devices will communicate only with each other and not any devices which have not been paired.

**NOTE:** It is important to exit PtP mode within the three minute time limit mentioned above. If you do not, none of the device pairings will be remembered and you have to start the process over from the beginning.

### Pairing a device to an existing network

If you need to add the LMSW-6xx-S to an existing in room network, follow the procedure below:

1. **Enter wireless Push-to-Pair (PtP) mode on the room controller or any currently paired battery device.** Press the Config button three times (within three seconds). The LED on the room controller and any paired battery devices that are currently awake will flash green.
2. **Enter PtP mode on the LMSW-6xx-S.** Press the Configuration button three times. As with the room controller, the LED on the switch will flash green.
3. **Pair the devices.** Press the Config button on the LMSW-6xx-S one more time to pair the LMSW-6xx-S to the room controller. The load connected to the room controller will toggle once (if the load is OFF, it will turn ON; if ON, it will turn OFF) to indicate that pairing was successful and its config LED will turn solid green.
4. **Exit PtP mode.** From any device, press the Config button 3 times. After a few seconds, the LED on the LMSW-6xx-S will flash a red/green/blue sequence and reboot, leaving the default network and migrating to the new network. Then the LED on the room controller will flash blue while it completes the pairing process. The Network ID of the LMSW-6xx-S will change to the value used by the previously paired devices and the room controller also returns to that value.

### Push-to-Pair in a Room with Wired Room Controllers via an LMBC-650

**NOTE:** Once you enter PtP mode on the LMBC-650 wireless bridge, a three minute timer begins. If the Config button on any wireless device in the room is pressed, the timer resets and begins the three minute countdown again. If no Config button is pressed within three minutes, the LMBC-650 will exit PtP mode.

1. **Enter PtP mode on the LMBC-650.** Using a pointed tool, press the Config button three times (within three seconds) until the LED on the LMBC-650 flashes green.
2. **Enter PtP mode on the LMSW-6xx-S.** Press the Config button (right side of Legrand badge) three times. As with the wireless bridge, the LED on the switch will flash green.
3. **Pair the LMSW-6xx-S.** Press the Config button on the LMSW-6xx-S one more time to pair it to the LMBC-650. Loads connected to the LMBC-650 will toggle once (if the load is OFF, it will turn ON; if ON, it will turn OFF) to indicate that pairing was successful. Also, the LMSW-6xx-S's blinking LED will turn to solid green as another indicator of a successful pairing.

**NOTE:** If there are any wireless sensors, dimmers, or additional switches in the room, repeat steps 2 and 3 for each of those devices so that all devices are paired together in the same network. For each device, loads will toggle during step 3 and its config LED will turn solid green.

4. **Exit PtP mode.** From any wireless device, press the Config button 3 times. After a few seconds, the LED on each switch, sensor, and wireless bridge currently in PtP mode will flash white or a red-green-blue sequence and reboot, leaving the default network and migrating to the new network. Then, the LED on the LMBC-650 will flash blue and the pairing process finishes. The default Network ID on all devices will change to a new number, based on the last four digits of the Mac address on the LMBC-650, and now those devices will communicate only with each other and not any devices which have not been paired.

**NOTE:** It is important to exit PtP mode within the three minute time limit mentioned above. If you do not, none of the device pairings will be remembered and you have to start the process over from the beginning.

**NOTE:** Hybrid rooms do not support automatic binding via PnG. The configuration button on any wireless device may be pressed once to toggle connected loads to verify communication and operation. Programming must be performed via LMCS-100.

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## DEVICE PAIRING AND UNIT ADJUSTMENT USING THE DLM CONFIG APP

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The DLM Config App is available for both iOS® and Android® devices. Search "DLM Config" on your device to download.

The app provides the ability to pair various devices in a room. Additionally, you can modify load binding and edit various DLM parameters for each device.

For details on the features and operation, download the DLM Config App User Guide from the Wattstopper web site at :

<https://www.legrand.us/wattstopper.aspx>

**NOTE:** LMCS-100 software, version 5.3 or later can also be used to pair devices and edit DLM parameters. However, LMCS-100 requires use of an LMBR-650.



## PLUG N' GO OPERATION (PNG)

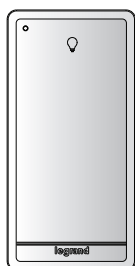
Loads in fully wireless rooms will automatically bind to LMSW-6xx-S switches based on the behavior detailed for each switch below.

**NOTE:** Wired loads in hybrid rooms will have no automatic PnG binding and must be configured with LMCS-100. However, after a switch is paired into the room, the configuration button can be pressed once to toggle loads in the room in order to verify communication and operation.

### LMSW-610-S

Ideal Application:

- Single-zone
- Single scene recall
- Toggle control

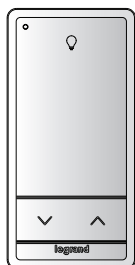


Input	Wireless PnG Binding	Default Press	Default Hold
Button	All Lighting Loads	Toggle On/Off	Toggle Ramp*

### LMSW-611-S

Ideal Application:

- Single-zone, with dimming
- Toggle and up/down control

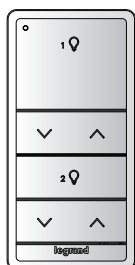


Input	Wireless PnG Binding	Default Press	Default Hold
Button	All Lighting Loads	Toggle On/Off	Toggle Ramp*
Rocker Up	All Lighting Loads	Send to 100%	Raise
Rocker Down	All Lighting Loads	Send to Off	Lower

### LMSW-622-S

Ideal Application:

- Dual-zone, with dimming
- Toggle and up/down control for both zones



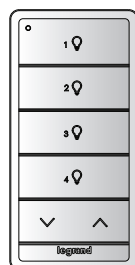
Input	Wireless PnG Binding	Default Press	Default Hold
Button 1	All Lighting Loads	Toggle On/Off	Toggle Ramp*
Rocker 1 Up	All Lighting Loads	Send to 100%	Raise
Rocker1 Down	All Lighting Loads	Send to Off	Lower
Button 2	All Lighting Loads	Toggle On/Off	Toggle Ramp
Rocker 2 Up	All Lighting Loads	Send to 100%	Raise
Rocker 2 Down	All Lighting Loads	Send to Off	Lower

\* Toggle Ramp – Button press actions will toggle loads between minimum and maximum values. Press-and-hold actions will dim or ramp loads. The first time you press and hold the button, the light level will raise gradually, stopping when you release the button (just like a rocker). Each subsequent time you hold the button it will reverse the ramp direction from the previous hold.

### LMSW-641-S

Ideal Application:

- Single or multiple zones
- -Toggle and up/down control



Input	Wireless PnG Binding	Default Press	Default Hold
Button 1	All Lighting Loads	Send to 100%	Save Scene**
Button 2	All Lighting Loads	Send to 75%	Save Scene
Button 3	All Lighting Loads	Send to 50%	Save Scene
Button 4	All Lighting Loads	Send to 25%	Save Scene
Rocker Up	All Lighting Loads	Send to 100%	Raise
Rocker Down	All Lighting Loads	Send to Off	Lower

\*\* Adjust lights to desired level using rockers. Then hold button for 5 seconds to save the scene.



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## UNIT ADJUSTMENT USING PUSH N' LEARN

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**NOTE:** Although Push n' Learn™ can be used to modify load binding for wireless switches, Wattstopper recommend using the DLM Config App for ease of use and available features.

**NOTE:** Push n' Learn is not available for wireless switches paired to hybrid rooms with wired controllers.

### Load Selection Procedure

In situations in which there is more than one load in a room, the configuration button allows access to Push n' Learn™ technology to change the binding relationship between control devices and loads.

**NOTE:** PnL cannot be used to change the binding on wireless sensors, although it is possible to enter PnL mode from a sensor.

### Step 1 Enter Push n' Learn

Press and hold the Config button (on any DLM device) for 3 seconds.

The LED on the LMSW-6xx-S begins to blink red. The LED on all switches and sensors, and the Config LED on room controllers in the local room network will also blink red. The LEDs will continue to blink until you exit PnL mode.

**NOTE:** If a switch or sensor is currently “asleep”, it will not blink. To ensure the switch is currently awake before initiating PnL, press a button first, or initiate PnL from that switch.

All loads in the room turn OFF immediately after entering PnL, then one load will turn ON. This is Load #1. On the LMRC-611 for that load, the blue Load LED will also be ON.

### Step 2 Load selection

Press and release the Config button to step through the loads connected to the DLM Local Network. Each time you press the Config button, the next load in the series will turn ON along with its Load LED, and the previous load will turn OFF.

To view the current status of the button or paddle, press the button or paddle once. The LED on the paddle will blink once blue or red, and then revert to blinking red. To bind or unbind a button or paddle from the load press **and hold** that button or paddle on the wireless switch. The LED will switch to the other color and stay lit for one second and then resume blinking red. Each time you press and hold the paddle or button, it will cycle to the next option:

- **Blue** – The button or paddle is bound to the load.
- **Red** – The button or paddle is not bound to the load.

### Step 3 Exit Push n' Learn

Press and hold the Config button until the red LED turns OFF, approximately 3 seconds.

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## RESETTING THE LMSW-6XX-S

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When you reset the LMSW-6xx-S, the Channel and Network ID will return to their default values, and if the switch was previously paired, it will no longer be connected to that room network. All DLM parameters are also returned to their default values.

To reset the switch, press the Config button 10 times. The LED will blink green each time the Config button is pressed (except for the 7th press which will blink blue). On the 10th press, the LED will blink red. Then it will turn red again and then briefly turn white indicating it is rebooting.

**NOTE:** You can also reset the LMSW-6xx-S from the DLM Config App or LMCS (the LMSW-6xx-S must be woken up before resetting).

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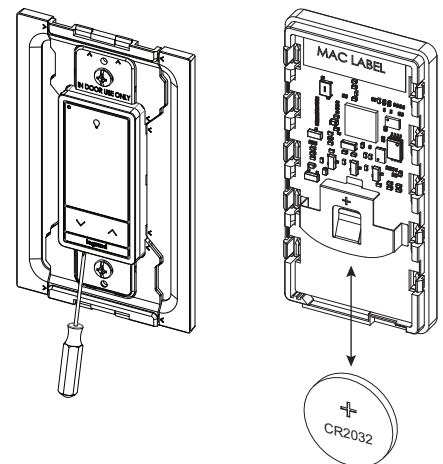
## REPLACING THE BATTERY

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**NOTE:** During battery replacement, some electrical components are exposed to static discharge from the user which could damage the switch. It is recommended to discharge any static from your person prior to proceeding. Contacting the switch's battery holder will equalize charge and avoid damage from static discharge.

To replace the battery:

1. Remove the faceplate from the switch.
2. Locate the prying location at the bottom left corner of the switch frame (slightly below the Legrand badge), as shown. Insert a small prying tool and pull the corner of the switch frame away from the wall. The switch will detach from the mounting plate with frame and buttons intact.
3. Locate the battery at the rear of the device. Remove the battery and replace with a new CR2032 battery.
4. Press the switch back into the mounting plate, and reinstall the faceplate. Removed battery is non-reusable and should be disposed off properly.



## FCC REGULATORY STATEMENTS

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. At least 20 cm of separation distance between this device and the user's body must be maintained at all times.

Any changes or modifications not expressly approved by The Watt Stopper Inc. could void the user's authority to operate the equipment.

## IC Caution:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## RF exposure warning

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux radiations de la IC définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

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WARRANTY INFORMATION	INFORMATIONS RELATIVES À LA GARANTIE	INFORMACIÓN DE LA GARANTÍA
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