Wattstopper®

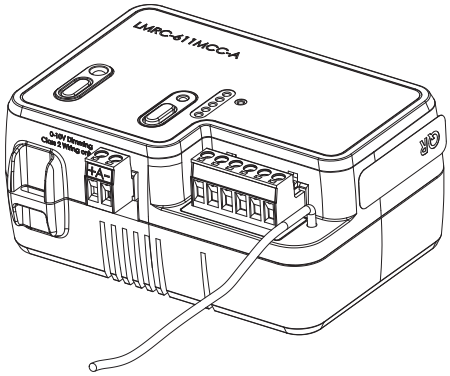
Wireless Dimming Room Controller With Antenna and Contact Closure

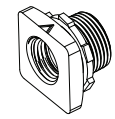
No: 29867 – 4/24 rev.6

Quick Start Guide • Guide de démarrage rapide • Guía de inicio rápido

Catalog Number • Numéro de Catalogue • Número de Catálogo: LMRC-611MCC-A

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





Conduit Adapter

Antenna Gland

Installation shall be in accordance with all applicable regulations, local and NEC codes. Wire connections shall be rated suitable for the wire size 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.

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

a. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
b. Do not use outdoors.
c. Do not mount near gas or electric heaters.
d. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
f. Do not use this equipment for other than intended use.
g. Installation should be performed by qualified service personnel.

SAVE THESE INSTRUCTIONS

SPECIFICATIONS

Input Voltage 120/277VAC, 50/60Hz
Relay rated for up to:
Incandescent ..... 10A @120VAC
Ballast and E-Ballast ..... 10A @120/277VAC
Class 1 & 2 Dimming Output, 0-10V sinks up to 50mA per channel
Metering capability provides power monitoring within 2% of the true value.
Connection to DLM Network ..... Wireless
Wireless Radio ..... Single, Concurrent 802.15.4 and ..... Bluetooth® low energy technology, 2.4GHz
External antenna for J-box mounting
Wireless Communication
IPv6 Mesh range between wire powered devices (LMRC-6xx, LMPL-6xx) ..... up to 100 ft.
IPv6 Mesh range for battery powered devices ..... up to 60 ft.
Bluetooth low energy technology range ..... up to 30 ft.
Wireless Encryption
AES-128 bit symmetric key, randomly generated per PAN
Environment
Operating Temperature ..... 32° to 131°F (0° to 55°C)
Storage Temperature ..... 23° to 176°F (-5° to 80°C)
Relative Humidity ..... 5 to 95% (non condensing)
Compliance/Regulatory
UL2043 plenum rated, FCC Part 15, RoHS,
Bluetooth certified
UL and cUL listed (E101196)
UL/CUL listed under UL60730. This model is Complementary Listed to "Emergency Lighting Equipment", (UL924) intended for Indoor Dry Locations.
Recommended junction box for Chicago Plenum or conduit requirements*:
Garvin Industries 4-11/16 Chicago Plenum Air Tight Junction Box, 2-1/8 in. Deep, 3/4 in. Knockouts, item #72171-3/4-VT or equivalent
* Sold separately by others

PRODUCT DESCRIPTION

The LMRC-611MCC-A is a wireless room controller with external antenna intended for installations where electrical devices are required to be mounted in a sealed enclosure (Chicago Plenum) or to meet local codes where all high and low voltage wiring is required to be inside a rigid electrical conduit. The LMRC-611MCC-A is compatible with all Wattstopper IPv6/Bluetooth® low energy technology wireless DLM sensors and switches. Using Push-to-Pair or the DLM Config App, wireless devices can be paired to a room controller for stand-alone room operation.

The room controller also includes a contact closure to support HVAC and DLM Plug load transmitter (WRC-TX) integration.

IMPORTANT INSTALLATION NOTES:

- You must maintain a minimum of 6" between each room controller and antenna.
- Ceiling mounted LMRCs must be mounted with the antenna pointing **down**, as shown on the following page.
- Any modifications to the antenna or this installation process may result in reduced wireless performance and non-acceptance of local codes.

MOUNTING AND WIRING

The LMRC-611MCC-A room controller includes an antenna for wireless performance and gasketed sealed connectors allowing it to be mounted inside a junction box to adhere to local requirements and codes such as Chicago Plenum.

The LMRC-611MCC-A can be installed in a deep junction box with 3/4" knockouts. Recommended junction box for Chicago Plenum or conduit requirements: Garvin Industries 4-11/16 Chicago Plenum Air Tight Junction Box, 2-1/8 in. Item #72171-3/4-VT or equivalent

NOTE: The LMRC-611MCC-A should be mounted in a vertical orientation as shown in the following wiring diagrams, with the **antenna pointing down**.

The included Conduit Adapter is required when installing the LMRC-611MCC-A within a box. An optional 3/4" rigid box spacer (not included) can be added to help secure the two junction boxes

The included Antenna Gland is used to secure the antenna and can be installed on any 3/4" knockout.

Line voltage wires are #16 AWG. The relay is rated for up to 10A; total load for LMRC-611MCC-A not to exceed 10A. On/Off or 0–10V dimming loads can connect to any load relay.

For dimming ballasts, either or both the Class 1 and Class 2 0–10V wires may be connected. For Class 1 Dimming, wires are 18# AWG.

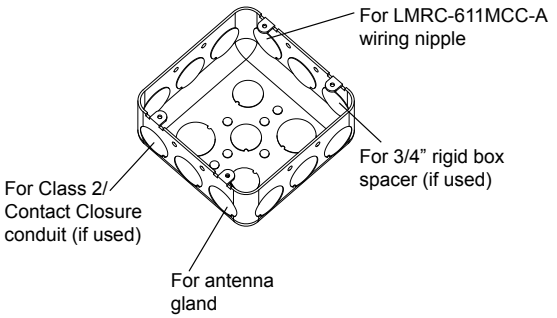
Class 1 is preferred in new installations when the purple and pink dimming signal wires are included in the fixture power cable. Class 2 is used for new or existing installation when it is easier to run the purple and pink dimming signal wires outside the fixture cable.

Class 1 and Class 2 wiring should be maintained throughout the installation and cannot be swapped—appropriate wiring practices should be used. Class 1 and Class 2 circuitry in the LMRC-611MCC-A units are galvanically isolated.

WARNING: TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE WIRING.

Before starting installation punch out designated knockouts, as shown.

In addition, adjust the lock nut on the LMRC-611MCC-A nipple so that **at least 1/4" will stick out from junction box**, once it is inserted into the knockout.

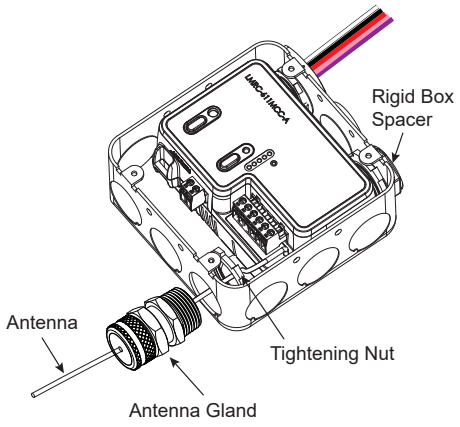


Step 1 Attach the Rigid Box Spacer (Optional)

If using a 3/4" rigid box spacer to help secure the two junction boxes, attach it to the same side as the conduit adapter, as shown, and secure with lock nut.

Step 2 Attach the Antenna Gland and Mount Room Controller in J-box

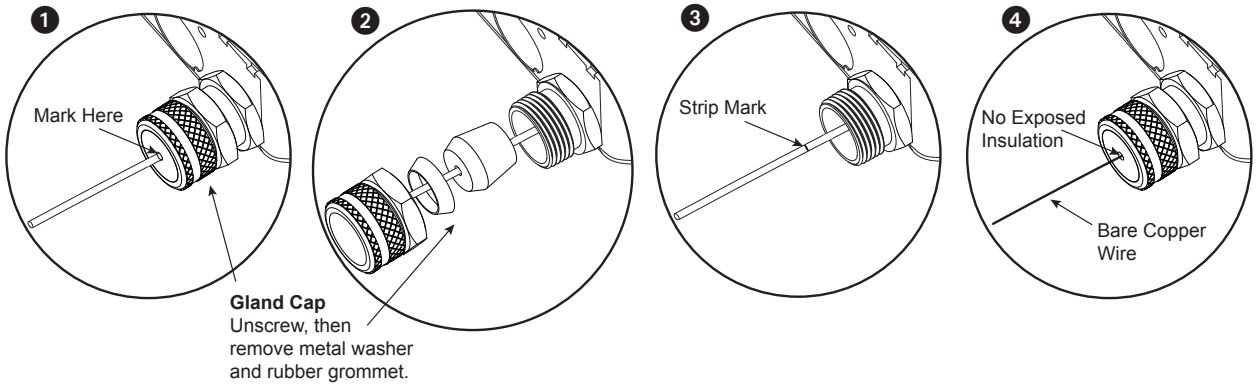
Feed the wires from the LMRC-611MCC-A through the knockout as shown, and lower the room controller into the junction box. Next, slide the lock nut over the antenna, then feed the antenna through the knockout and then through the antenna gland, as shown. Finally, insert the antenna gland into the knockout and fasten to the J-box using the lock nut. Pull antenna through gland if there is excess antenna within the J-box. Make sure that there is **at least 4 inches of exposed antenna** beyond the antenna gland.



IMPORTANT: Be careful not to bend the antenna excessively. Doing so may break the Antenna.

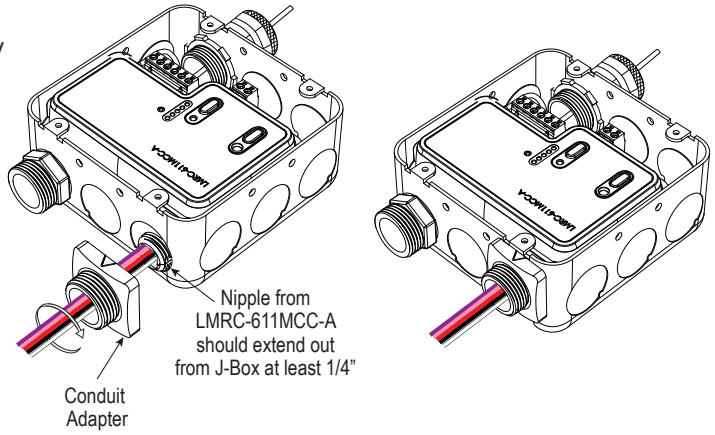
NOTE: If local regulations require no polymeric materials in the plenum space, you will need to strip the insulation surrounding the antenna. After feeding the antenna through the antenna gland and securing the gland, mark the antenna where it exits the gland as, shown in Figure 1.

Unscrew the cap section of the gland and remove the metal washer and rubber grommet insulator as shown in Figure 2, then strip the insulation at the mark, using an 18AWG wire stripper. Then reattach the rubber grommet and metal washer and screw the cap section back on, making sure no insulation exits the gland, as shown in Figure 4. **Ensure that bare antenna does not touch any metal.**



Step 3 Attach the Conduit Adapter

Screw the conduit adapter onto the room controller nipple approximately 2 turns with the arrow facing up as shown. Adjust lock nut from inside the j-box to tighten.

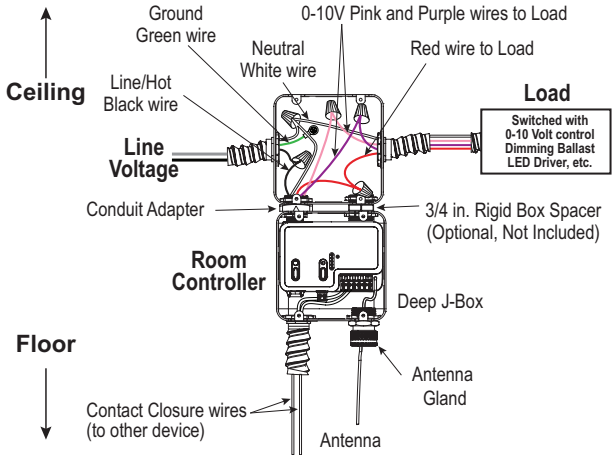


Step 4 Attach Junction Box with LMRC-611MCC-A to Junction Box with Conduit

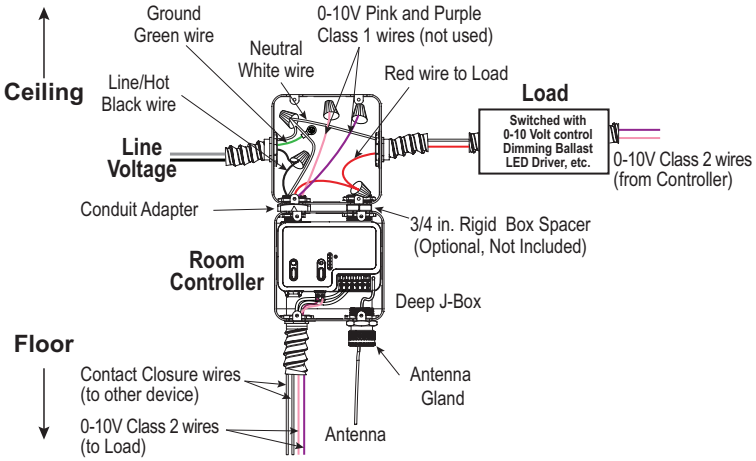
Connect the two junction boxes and secure with tightening nuts.

Wire line voltage as shown in the following diagrams. Connect Class 1 dimming wires if used or cap them if not.

LMRC-611MCC-A with Class 1 Dimming



LMRC-611MCC-A with Class 2 Dimming

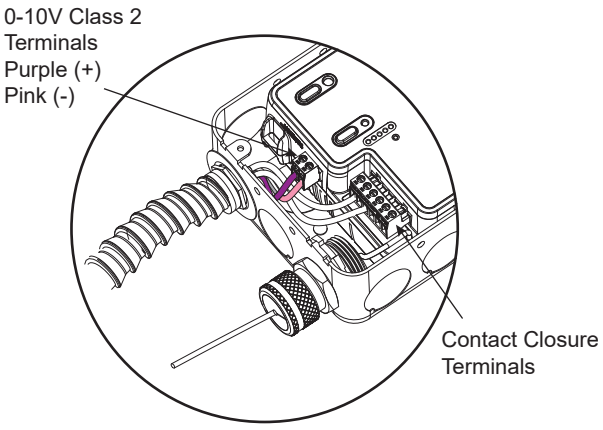


NOTE: Per UL, the 0-10V negative dimming wire color has been changed from gray to pink.

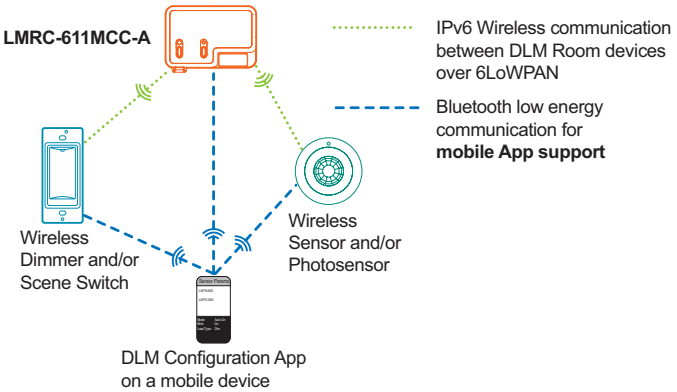
Step 5 Attach Conduit with Class 2 Dimming and/or Contact Closure Wires

If using Class 2 dimming or contact closure, attach conduit and connect appropriate wires.

NOTE: If using Contact Closure, you will need to plug in the contact closure terminals before wiring.



WIRELESS DLM CONNECTION



Distance Recommendations for LMRC-611MCC-A:

6" minimum and 100' maximum between any LMRC-6xx, LMPL-6xx load controller

30' maximum between this device and a mobile device

60' maximum between this device and a battery device

CONTACT CLOSURE FUNCTIONALITY

PIN (left to right)	Function
N.O.	N.O. contact on Relay
COM	COM on relay
N.C.	N.C. contact on Relay
+24	24V output supply
+24 SW	Switched 24V (WRC blue wire)
GND	Ground

Contact Closure Terminals:

- N.O. and N.C., 500mA max;
- 24V and 24V Switched, 50mA max

The contact closure operates on the state of occupancy.

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

USING THE LMRC-611MCC-A WITH EMERGENCY LIGHTING

When used with an ELCU

Wattstopper recommends using an ELCU device when the Emergency Light should turn On and Off based on a Normal Power Circuit in the room. In this scenario, the LMRC-611MCC-A's 0-10VDC dimming circuit is connected to and alters the light level of both normally powered lighting loads and emergency powered lighting loads. The 0-10V signal is generated individually by each ballast or driver when they are powered.

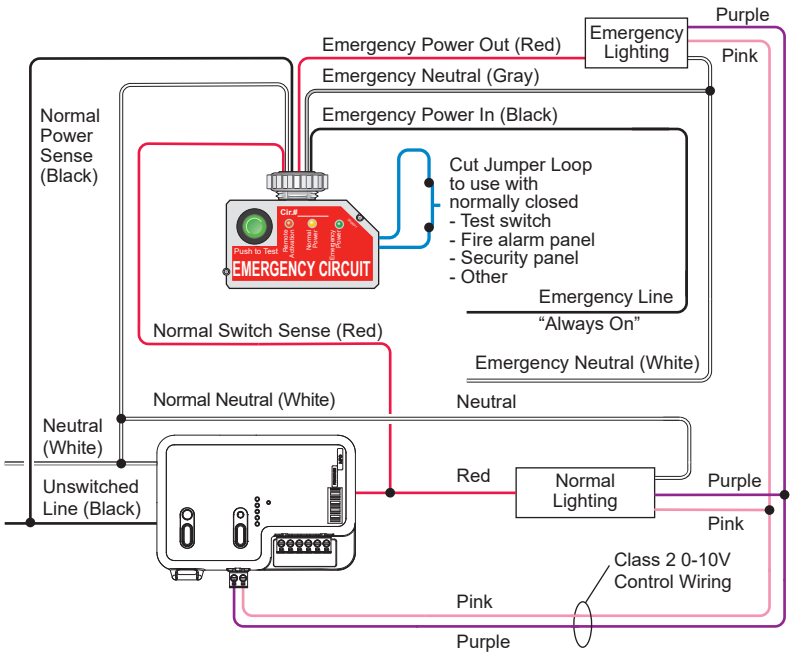
NOTE: Class 1 or class 2 dimming may be used. (Class 2 dimming shown in diagram.)

When Normal Power is available:

When Normal Power is available and the normal load has been turned off by any DLM device (OS, photocell, or dimmer switch, or LMRC override button), the ELCU will turn off the Emergency Load as well.

When Normal Power is unavailable:

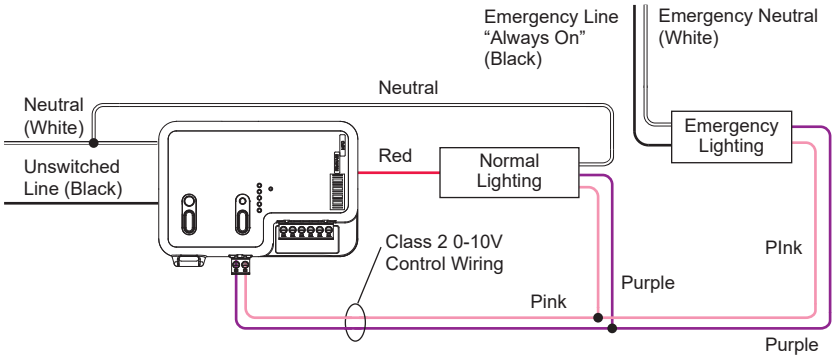
When normal power to the room controller fails for any reason, the 0-10VDC dimming circuit in the LMRC-611MCC-A will revert to an open circuit. Since no device is controlling the 0-10V circuit, any fixture that is fed by emergency power will go full on. Fixtures fed by normal power will be off since there is no power available for their operation.



When no ELCU is used:

In this scenario, emergency lighting cannot be turned off by a DLM device, only dimmed to its lowest possible level. The normal lighting load has full control. As in the example with the ELCU, if normal power fails, the emergency load will go full on. If any Emergency Circuits are fed or controlled from a panel, they must be located electrically where fed from a UPS, generator, or other guaranteed source of power during emergency and power outage situations.

NOTE: Class 1 or class 2 dimming may be used. (Class 2 dimming shown in diagram.)



SETTING UP A ROOM NETWORK BY PAIRING DEVICES

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.

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 devices communicate with each other. The channel number will remain at 15.

SET UP A ROOM NETWORK USING PUSH-TO-PAIR MODE

Push-to-Pair in a room with one or more LMRC-611MCC-A Room Controllers

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 a room controller.** Press the Config button three times (within three seconds) until the LED on the room controller flashes green. In a room with more than one room controller, the first room controller placed into PtP will become the **primary**, determining the Network ID and channel settings for all the devices in the network.
2. **Enter PtP mode on another room controller or sensor or switch.** Press the Config button three times. As with the room controller, the LED on the device will flash green.

   NOTE: Although you can pair devices in any order, Wattstopper recommends that you **pair any additional room or plug load controllers first**, since controllers are the **only** devices that can act as repeaters in a mesh network. For example, in a long hallway or corridor with 2 or more room controllers and multiple occupancy sensors, the initial room controller might be too far away to communicate directly with the furthest occupancy sensor, and therefore communication needs to route through another controller.
3. **Pair the devices.** On that same controller, sensor, or switch, press the Config button 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 blinking LED on the controller, sensor, or switch being pair will turn to solid green as another indicator of a successful pairing.

   NOTE: **Repeat steps 2 and 3** for each additional, controller, sensor, and switch in the room, 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 white 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.

Pairing a device to an existing network

If you need to add a device 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 new device.** On the new device, press the Config button three times. As with the room controller, the LED on the switch will flash green.
3. **Pair the devices.** On the new device, press the Config button 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 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 LMDM-601 will flash white 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 LMRC-611MCC-A will change to the value used by the previously paired devices and the room controller also returns to that value.

DEVICE PAIRING AND UNIT ADJUSTMENT USING THE DLM CONFIG APP

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, and update the firmware in 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/software

PLUG N' GO

Plug n' Go supports the most energy efficient control strategy. A set of wireless scenes are automatically assigned for load control by switches and sensors, after pairing is complete.

Plug n' Go defaults:

- Occupancy sensors always control all loads Auto Off
- If there is a switch in room, the load controlled by the primary room controller is Auto On and any loads controlled by additional room controllers are Manual On
- Plug Loads (LMPL-611-20M) are not bound to any switches and are Auto On/Auto Off from occupancy sensors.

UNIT ADJUSTMENT – PUSH N' LEARN (PNL)

Load Selection Procedure

In situations in which there is more than one LMRC-611MCC-A in a room, the configuration button allows access to Push n' Learn™ (PnL) technology to change the binding relationship between the LMDM-601/LMSW-6xx series switches 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.

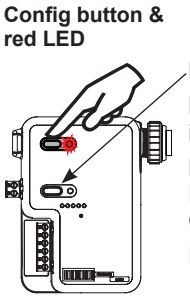
Step 1 Enter Push n' Learn

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

The red LED on the LMRC-611MCC-A begins to blink. The LED on all switches and sensors 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 its Config 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-611MCC-A 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 LMDM-601/LMSW-6xx series 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

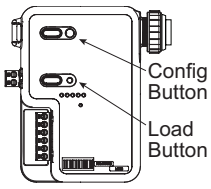
Press and hold the Config button until the red LED turns OFF, approximately 3 seconds.

UNIT ADJUSTMENT – SETTING OCCUPANCY SENSOR MODE TO AUTO-ON OR MANUAL-ON

The LMRC-611MCC-A supports the ability to configure the room between Occupancy Mode (Auto-on/Auto-off) and Vacancy Mode (Manual-on/Auto-off). Factory Default setting is Occupancy Mode.

NOTE: This feature requires firmware version 10.68 and later. Check the firmware label on unit or use DLM Config App to confirm and upgrade firmware as needed.

NOTE: Occupancy Sensor Mode will only function after the room has been paired.

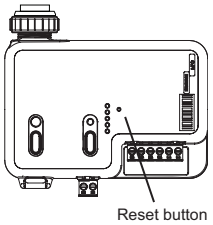


1. After the room is paired using PtP, enter Occupancy Sensor Mode on any LMRC-611 series load controller by Pressing and Holding both the Config Button and Load button for 5 seconds until the Config Button LED rapidly blinks Pink. Then release both buttons.
2. To select the mode, press the Load button to toggle between Occupancy Mode (Solid Pink LED) and Vacancy Mode (Slow Blinking Pink LED)
3. To save and exit, use one of the following methods:
   a. Press and Hold both the Load and Config Button for 5 seconds until the Config Button LED rapidly blinks Pink then release both buttons.
   b. After 30 seconds of inactivity, the unit will exit and save automatically.
4. When exiting, the Config button LED rapidly blinks Pink and sends the change to additional load controllers in the room.

NOTE: If PtP, PnL, or Motion Test modes are used while in Occupancy Sensor Mode the unit will exit without saving.

NOTE: If additional LMRC-611 series room controllers are paired to the room after the Occupancy Sensor Mode is configured, repeat the steps above to ensure all controllers have the same settings.

RESETTING THE LMRC-611MCC-A



When you reset the LMRC-611MCC-A, the Channel and Network ID will return to their default values. Note that if switches and sensors were previously paired to the room controller, they will still remain set to the previous Channel and Network ID, but will not be in communication with the room controller and so will not control the load. However, in a room with multiple room controllers, the other room controllers would still be paired to the switches and sensors and those loads would respond.

There are two ways to reset the LMRC-611MCC-A:

- 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.
- On the front of the room controller, is a small hole that will fit a paper clip. Use a paper clip to depress the button inside that hole and hold for 15 seconds. When you first press the reset button, the LED will blink red once, then after the 15 seconds will reboot and the LED will briefly turn white, indicating it is rebooting.

NOTE: You can also reset the LMDL-600 from the DLM Config App.

If you want to re-pair a room controller that has been reset, the easiest way is to use the DLM Config app, setting the room controller back to the previously used Network ID.

If using Push-to-Pair, then **if the room has only this one room controller, or if the room controller was the primary** in a network with more than one room controller, then following the standard Push-to-Pair method will return the LMRC-611MCC-A to the previous Network ID, since it is based on that Mac address of the room controller. But, **if the room controller was not the primary**, then you must follow the procedure for adding a new device to an existing room, with this room controller as the new device.

TROUBLESHOOTING

The wrong lights and plug loads are controlled	Configure the switch buttons and sensors to control the desired loads using the Push n' Learn adjustment procedure or DLM Config App.
LEDs on the room controller turn ON and OFF but load doesn't switch	1. Make sure the DLM local network is not in PnL. 2. Check load connections to room controllers and/or plug load controllers.
Lamps do not dim, or lamps drop out at low dim levels	1. Make sure a 0–10V dimming ballast and rapid start sockets are installed per the ballast manufacturer's recommendation. Shunted sockets are typically not acceptable. 2. Disconnect the 0-10V wires from the RC then-short and open the 0-10V connection to confirm the lights go full dim, full bright. 3. Check wiring per ballast manufacturer's instructions.

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.

NOTE: No rights or licenses under patents owned or controlled by third parties, express or implied, are granted to use third-party devices in combination with these products in a wireless mesh network, or to use third-party services to access, monitor or control these products in a wireless mesh network via the internet or another external wide area network. Separate license rights may need to be obtained from such third parties for such devices, combinations and services.

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