Wattstopper®

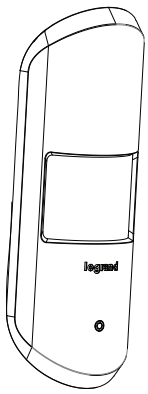
DLM Wireless PIR Corner Mount Occupancy Sensor

No: 27366 – 4/24 rev. 8

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

Catalog Numbers • Numéros de Catalogue • Números de Catálogo: LMPX-600, LMPX-600-1, LMPX-600-4

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

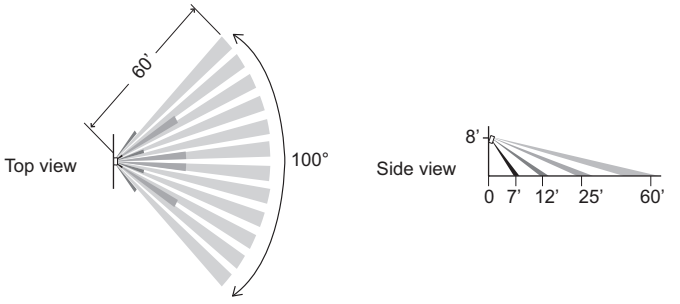


Once paired to an LMRC-611 wireless room controller or LMBC-650 wireless bridge, this unit is set for Plug n' Go operation, adjustment via the DLM Configuration App is recommended to meet the local energy code where installed.

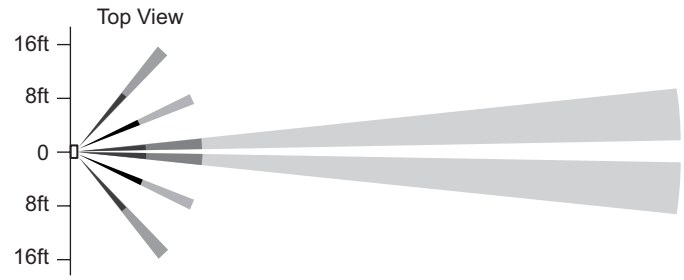
The DLM Wireless corner mount sensor is a wireless battery powered PIR occupancy sensor intended for operation with wireless room controllers or bridges. Once paired to a wireless room controller or bridge, it detects and monitors the presence of motion to determine if lights should be on or off.

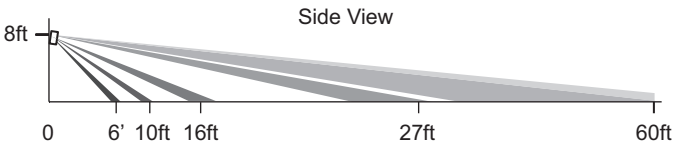
COVERAGE PATTERNS

Coverages shown are maximum and represent half-step walking motion.



LMPX-600, wide angle lens





LMPX-600-1, long range lens

SPECIFICATIONS

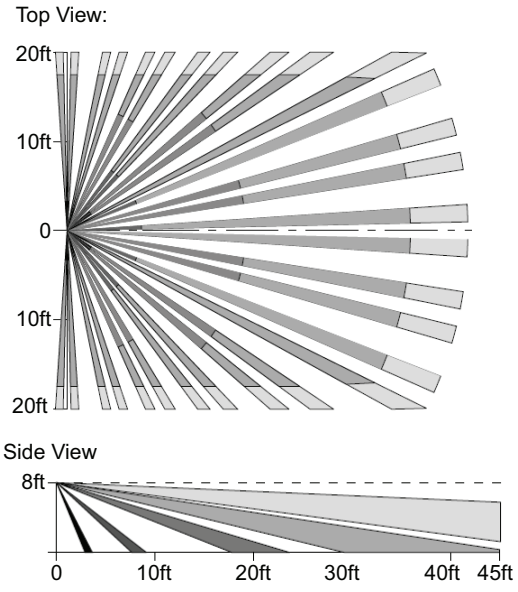
Power Supply ..... Battery powered, CR123A Lithium Ion, 3 VDC
Connection to DLM Network... Wireless via LMRC-611MCC room controllers
Lens Types
- LMPX-600 ..... Wide Angle
- LMPX-600-1 ..... Long Range
- LMPX-600-4 ..... Extra Wide Angle

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 30 ft.
- 60' max. between LMPX-600 and room controller or bridge

Wireless Encryption.....AES-128 bit symmetric key
Environment ..... For Indoor Use Only
- Operating Temperature ..... 32° to 104°F (0° to 40°C)
- Storage Temperature ..... 23° to 140°F (-5° to 60°C)
- Relative Humidity ..... 5 to 95% (non condensing)

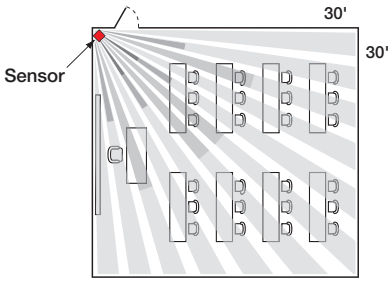
Compliance/Regulatory
- FCC, RoHS,
- Bluetooth certified
- UL and cUL listed (E101196)

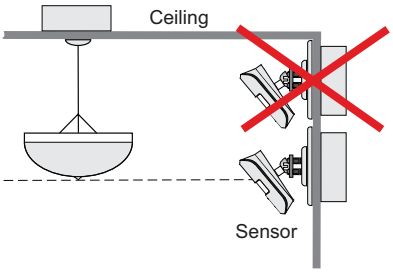
Patent Pending

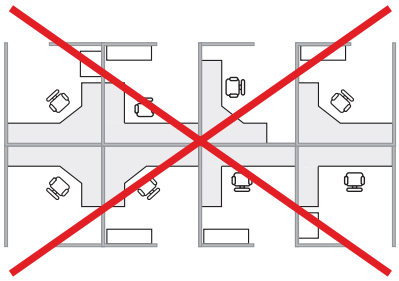


LMPX-600-4, extra wide angle lens

SENSOR PLACEMENT







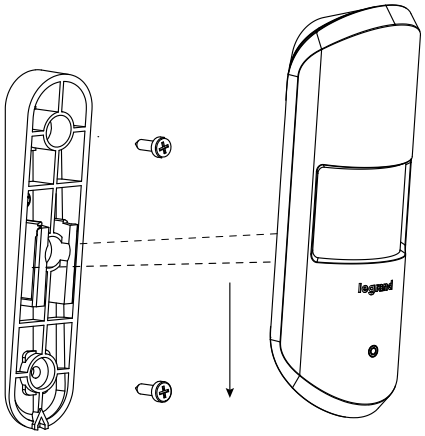
MOUNTING

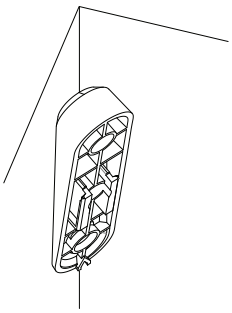
The LMPX-600 can be mounted using one of these methods:

- Mounted to a wall or corner using the included mounting wedge.
- Mounted directly to a wall, using the included ball mount
- Mounted to a j-box within a wall, using the included ball mount and ball mount plate
- Mounted to a ceiling, using the included ball mount and ball mount plate
- Mounted to a hanging threaded rod, for open ceiling environments, using the included threaded rod adapter

Ceiling Mount

1. Attach the mounting wedge to the ceiling with the two included 1” mounting screws.
2. Align the slots of the bracket to the ribs on the back of the LMPX-600. Then slide the LMPX-600 downward onto the mounting wedge.





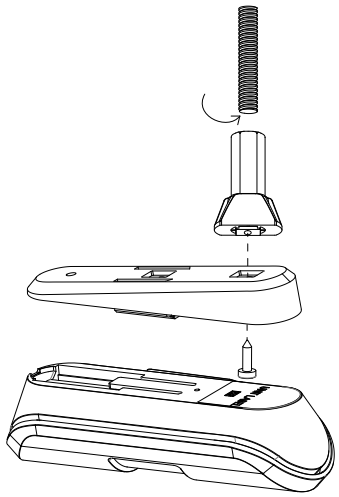
Beveled edges on plate allow for mounting into a corner

NOTE: If mounting to a wall or corner using the mounting wedge, the top of the wedge should be at least 1 1/2” below the ceiling to allow the sensor room to slide down onto the mounting plate.

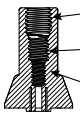
Threaded Rod Mount

The threaded rod adapter can mount to a 3/8”-16, 1/4”-20, or 1/2”-13 hanging threaded rod.

1. Screw the adapter onto the rod.
2. Attach the mounting wedge to the adapter using the included 10mm screw.
3. Align the slots of the bracket to the ribs on the back of the LMPX-600. Then slide the LMPX-600 onto the mounting wedge.



Threaded Rod Size
3/8"-16, 1/4"-20,
or 1/2”-13

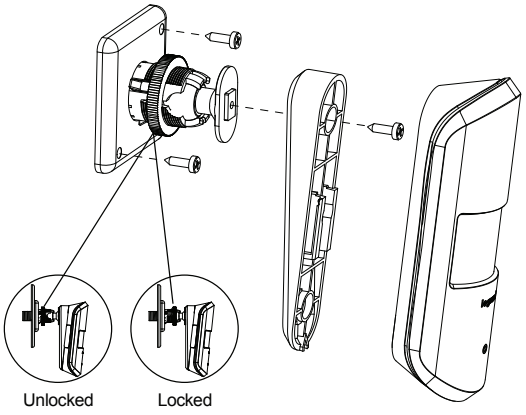


Threaded hole - 1/2"-13
Threaded hole - 3/8"-16
Threaded hole - 1/4"-20

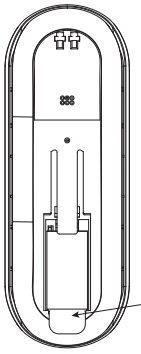
Mounting Bracket

Ball Mount to Wall

1. Attach the ball mount swivel bracket to the wall with the two included 1” mounting screws.
2. Attach the mounting wedge to the mount end of the ball joint, using the included 10mm screw.
3. Align the slots of the bracket to the ribs on the back of the LMPX-600. Then slide the LMPX-600 onto the mounting plate.
4. Push snug ring towards plate to adjust sensor angle, then pull snug ring back towards sensor to lock in place.

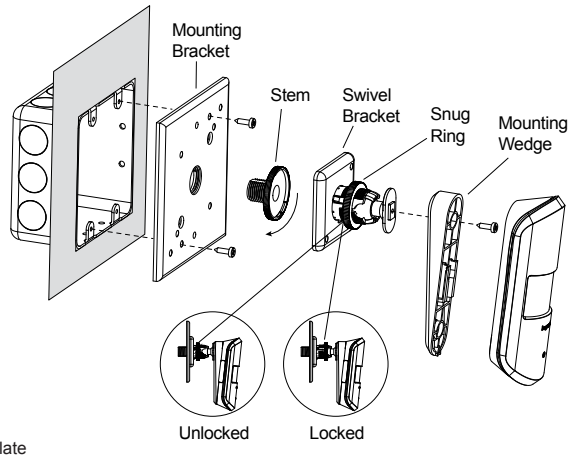


NOTE: Pull protective battery tab before installation to power the sensor.



Ball Mount to J-Box

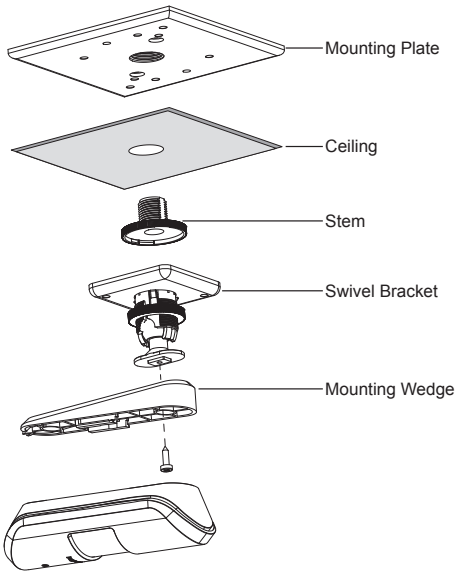
1. Attach the mounting plate to the J-Box with the two included screws.
2. Attach the stem to the back of the swivel bracket by rotating the stem until secure.
3. Attach the swivel bracket by rotating the stem into the center hole of the mounting plate until secure.
4. Attach the mounting wedge to the mount end of the swivel bracket, using the included 10mm screw.
5. Align the slots of the bracket to the ribs on the back of the LMPX-600. Then slide the LMPX-600 onto the mounting plate.
6. Push snug ring towards plate to adjust sensor angle, then pull snug ring back towards sensor to lock in place.

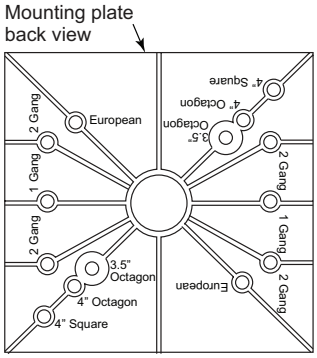


Ball Mount to Ceiling

This method is ideal for mounting to a drop ceiling with ceiling tile.

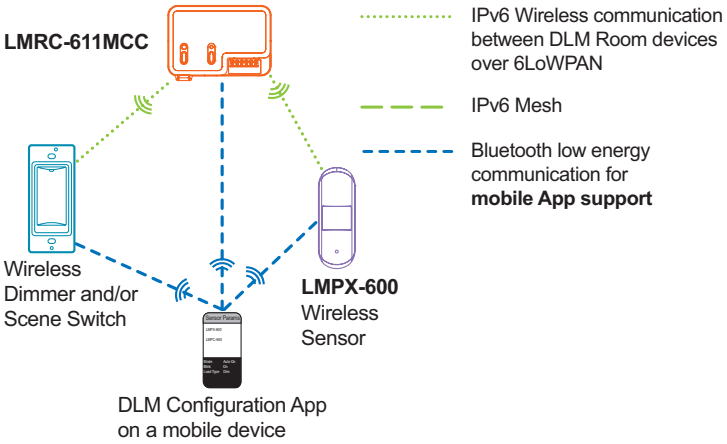
1. Cut a hole in the ceiling tile the same diameter as the stem.
2. Attach the stem to the back of the swivel bracket by rotating the stem until secure.
3. Line up the center hole in the mounting plate with the hole in the ceiling. Then attach the swivel bracket by rotating the stem into the center hole of the mounting plate until secure.
4. Attach the mounting wedge to the mount end of the swivel bracket, using the included 10mm screw.
5. Align the slots of the bracket to the ribs on the back of the LMPX-600. Then slide the LMPX-600 onto the mounting plate.
6. Push snug ring towards plate to adjust sensor angle, then pull snug ring back towards sensor to lock in place.





Mounting plate accommodates different size J-boxes

WIRELESS ROOM CONNECTION

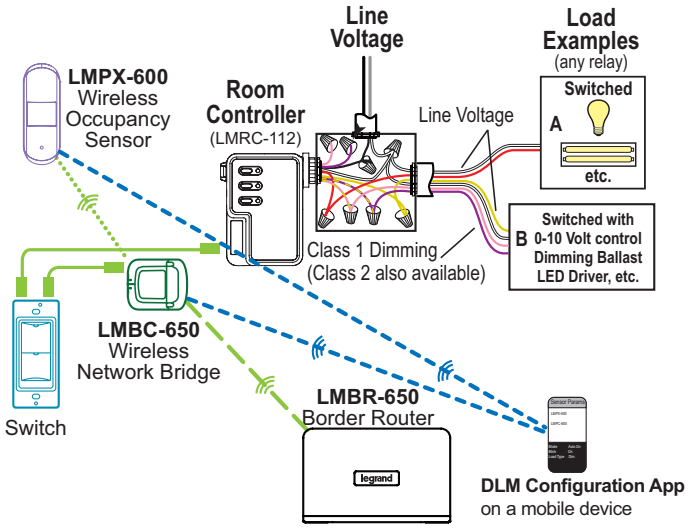


Distance Recommendations:

30' max between LMPX-600 and mobile device

60' max. between LMPX-600 and room controller or bridge

HYBRID ROOM CONNECTION



Note: For a single (non-networked) hybrid room, the LMBR-650 is not required.

Note: The DLM Config App can only connect with the LMBC-650 to update firwmare or pair devices. You need an LMBR-650 and LMCS to commision a Hybrid room. For a single room, without an LMBR-650, LMCS can connect to the LMBC-650 via the LMCI.

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

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

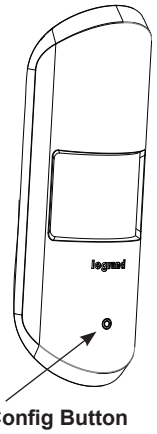
DEVICE PAIRING USING PUSH-TO-PAIR MODE

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 LMPX-600.** Press the Config button three times. As with the room controller, the LED on the sensor will flash green.
3. **Pair the LMPX-600.** Press the Config button on the LMPX-600 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 LMPX-600'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.



Config Button

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.

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 per scene. 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 LMPX-600.** Press the Config button three times. As with the room controller, the LED on the sensor will flash green.
4. **Pair the LMPX-600.** Press the Config button on the LMPX-600 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 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 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 LMPX-600 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 LMPX-600.** Press the Config button three times. As with the room controller, the LED on the sensor will flash green.
3. **Pair the devices.** Press the Config button on the LMPX-600 one more time to pair the LMPX-600 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 couple of 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 LMPX-600 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.

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

GET IT ON Google Play

Download on the App Store

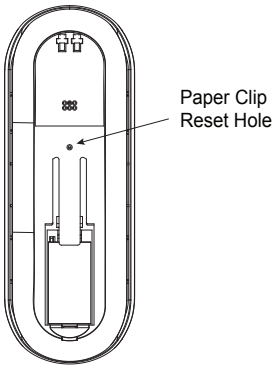
RESETTING THE LMPX-600

When you reset the LMPX-600, the Channel and Network ID will return to their default values, and if the sensor was previously paired, it will no longer be connected to that room network. All DLM parameters are also returned to their default values.

There are two ways to reset the LMPX-600:

- 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). After the 10th press, the LED will turn red then briefly turn white indicating it is rebooting.
- On the back of the sensor, is a small hole that will fit a paper clip. Use a paper clip to depress the button inside that hole and hold for 10 seconds. When you first press the reset button, the LED will blink red once, then after the 10 seconds will reboot and the LED will briefly turn white, indicating it is rebooting.

NOTE: You can also reset the LMPX-600 from the DLM Config App (the LMPX-600 must be woken up before resetting).



LED INDICATORS

LED Color	Function
White	Unit Boot Up
Green, 1 Blink	Config Button Pressed
Blinking Green	Push to Pair Mode
Red, 1 Blink	Indicates low battery. It will only blink if the Config button is pressed. Also blinks if Reset button on back is pressed
Blinking Red	Push n’ Learn Mode (not applicable to LMPX-600 but will blink if other devices are in PnL)
Blue	Indicates motion detection, **only** if device is woken up. (This is inteneded to help determine coverage detection for placement.)

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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No. 27366 – 4/24 rev. 8

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