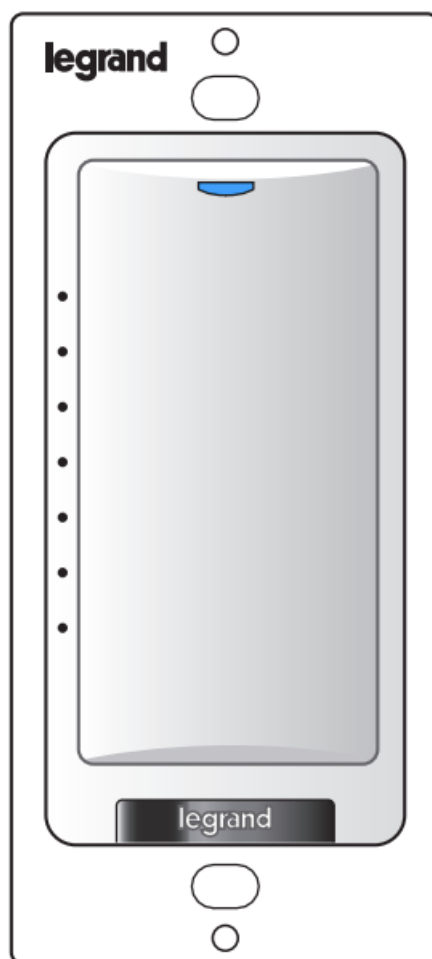# legrand LMDM-101-W Low Voltage 0-10 Volt Led Dimmer Switch With Wireless Control User Guide

legrand LMDM-101-W Low Voltage 0-10 Volt Led Dimmer Switch With Wireless Control User Guide

Watt stopper ®

Digital Lighting Management Low Voltage Dimming Wall Switch (v3)

Catalog Number

Country of Origin: Made in China

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 Watt stopper room controllers, and also available at **www.legrand.us/wattstopper.**

Installation shall be in accordance with 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
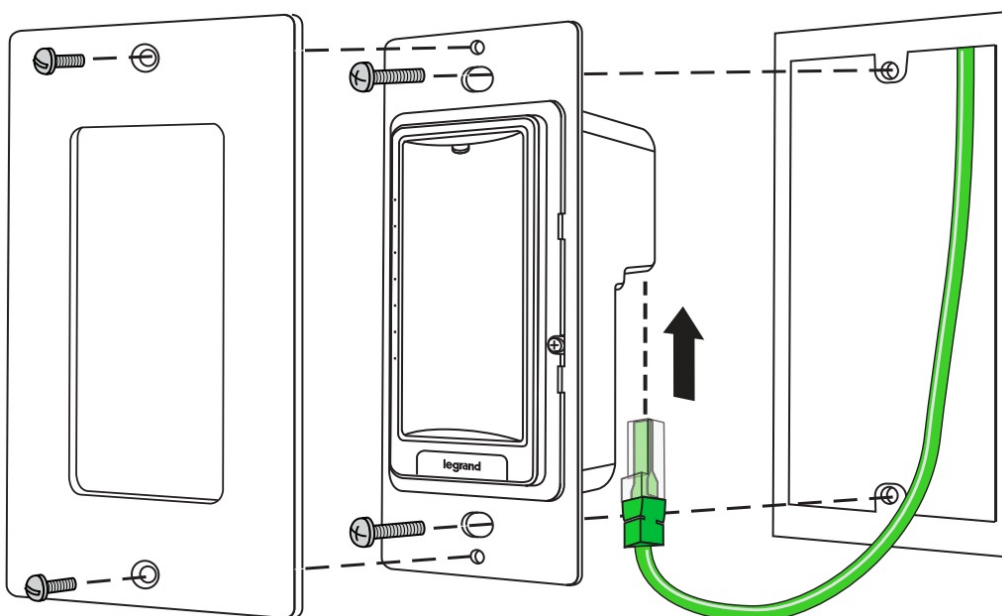
Wiring.

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

Contents

MOUNTING THE SWITCH

WARNING: Do not install to cover a junction box having Class 1, 3 or Power and Lighting Circuits.

SPECIFICATIONS

- **Voltage** … 24VDC
- **Current Consumption** … 5mA
- **Power Supply** … Watt stopper Room Controller
- **Connection to the DLM Local Network**…2 RJ-45 ports

DLM Local Network characteristics when using LMRC-11x/2xx room controllers:
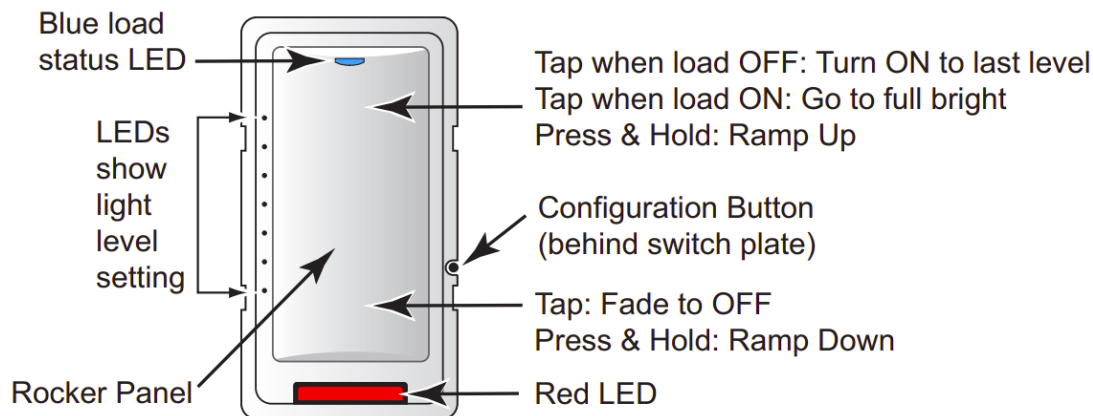
Low voltage power provided over Cat 5e cable (LMRJ); max current 800mA. Supports up to 64 load addresses, 48 communicating devices including up to 4 LMRC-10x series and/or LMPL-101 controllers.

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)
- **Relative Humidity** … 5 to 95% (non condensing)

Patent Pending
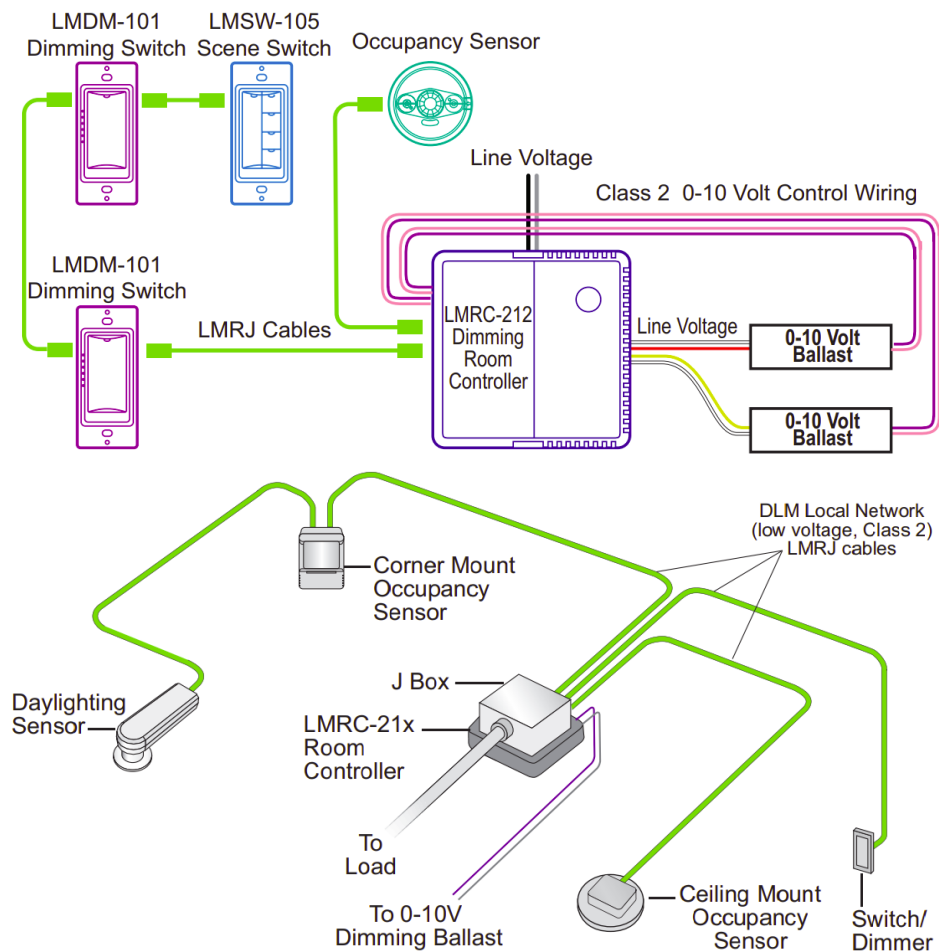
BUTTONS AND INDICATORS

When all loads bound to the dimmer are OFF, the Blue load status LED is dim. A single light level LED is lit to show the last light level.

When any load bound to the dimmer is ON the load status LED is bright. The number of illuminated light level LEDs indicates the highest light level on any of those loads.

CONNECTIVITY

The illustrations here show examples of free-topology wiring. The LMDM 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

Diagram labels:
- LMDM-101 Dimming Switch
- LMSW-105 Scene Switch
- Occupancy Sensor
- Line Voltage
- Class 2 0-10 Volt Control Wiring
- LMDM-101 Dimming Switch
- LMRJ Cables
- LMRC-212 Dimming Room Controller
- Line Voltage
- 0-10 Volt Ballast
- 0-10 Volt Ballast
- Corner Mount Occupancy Sensor
- DLM Local Network (low voltage, Class 2) LMRJ cables
- Daylighting Sensor
- J Box
- LMRC-21x Room Controller
- To Load
- To 0-10V Dimming Ballast
- Ceiling Mount Occupancy Sensor
- Switch/ Dimmer

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.
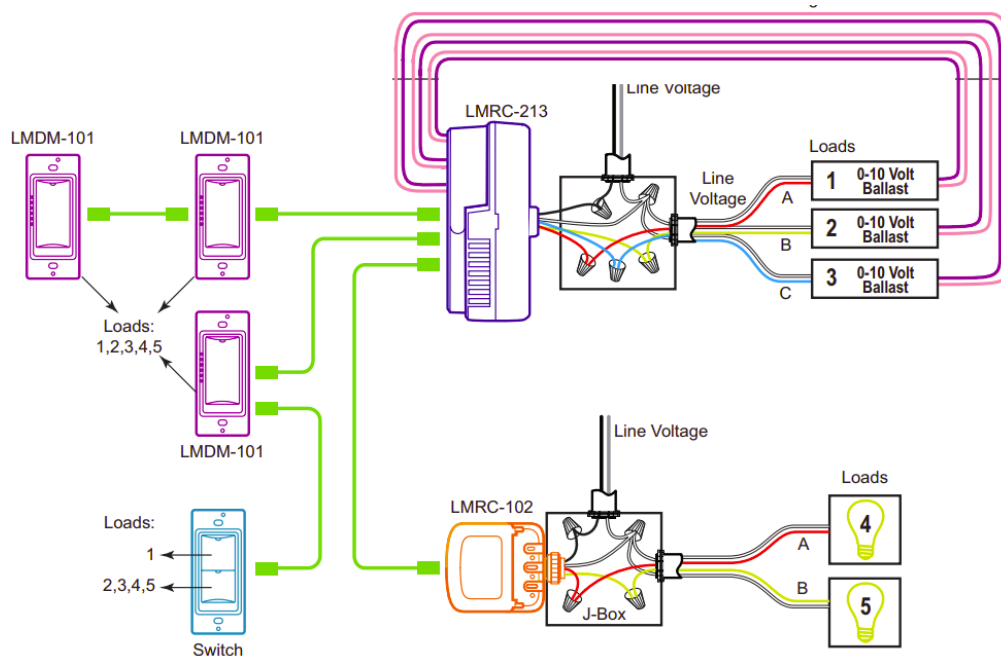
PLUG N' GO OPERATION (PNG)

All loads are automatically bound to the LMDM-101.

The rocker paddle on the LMDM-101 controls all loads on the DLM Local Network. Tap the top of the rocker to turn ON all loads to the last light level. Tap the bottom to turn OFF all loads.

Dimmable loads dim (ramp down or up) in response to a press and hold of the appropriate portion of the rocker paddle. Switched loads turn OFF when ramped down below 50% and turn ON when ramped up above 50%.

To change the loads controlled by the LMDM-101 see UNIT ADJUSTMENT.

UNIT ADJUSTMENT – PUSH N' LEARN (PNL)

Load Binding 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 Enter Push n' Learn

1. Using a pointed tool, press and hold 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 PnL 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 Blue LED will be ON for all devices that are bound to this load.

Step 2 Load selection

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

Step 3 Exit Push n' Learn

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

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 A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

TROUBLESHOOTING

Loads do not operate as expected.

Rocker paddle LED doesn't light	1. 1. Check to see that the 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 rocker paddle to control the desired lights using the Push n' Learn adjustment procedure.
Rocker paddle 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.
LED turns ON and OFF but load doesn't switch	1. Make sure device is not in PnL. 2. Check load connections to room controller.

WARRANTY INFORMATION

Watt stopper 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 Watt stopper 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.
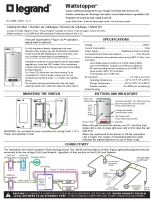
800.879.8585
www.legrand.us/wattstopper

Documents / Resources

legrand LMDM-101-W Low Voltage 0-10 Volt Led Dimmer Switch With Wireless Control [pdf] User Guide

LMDM-101-W Low Voltage 0-10 Volt Led Dimmer Switch With Wireless Control, LMDM-101-W, Low Voltage 0-10 Volt Led Dimmer Switch With Wireless Control, Volt Led Dimmer Switch With Wireless Control, Dimmer Switch With Wireless Control, Wireless Control, Control

Manuals+,