LMPL-101 Digital Plug Load Room Controller

Plenum-rated controller with line voltage relay and switching power supply

Component of Digital Lighting Management integrated control systems

Plugs to other components using Cat 5e cables with RJ45 connectors eliminating wiring errors

Plug n' Go automatic configuration and Push n' Learn for personalization

Accepts occupancy sensor signal for energy saving control of plug loads

PROJECT

LOCATION/TYPE

Product Overview

Description

LMPL-101 Plug Load Room Controllers include a 20 amp relay for on/off control of connected outlets, and a high-efficiency switching power supply. They are part of a WattStopper Digital Lighting Management (DLM) system, and enable energy-efficient control of plug loads.

Operation

LMPL-101 Plug Load Room Controllers operate on 120 volts and provide Class 2 power to sensors and switches via the DLM local network. Once powered up, Plug n' Go automatically configures system components for the most energy-efficient operation. The plug load controllers then switch controlled outlets on and off in response to input from any communicating occupancy sensors. The DLM system may be reconfigured using Push n' Learn without the need for tools or a PC.

Plug n' Go & Push n' Learn Configuration

Plug n' Go automatic configuration establishes system functionality based on the installed components. Plug Load Room Controllers are initially controlled by all of the occupancy sensors on the DLM local network, and default to automatic on/off operation whether or not there is a switch on the local network. DLM system operation may be reconfigured using Push n' Learn. As an example, a selected switch button may be bound to a plug load controller for manual-off control of outlets. Similarly, the plug load controller could be bound only to selected occupancy sensors.

Applications

LMPL-101 Plug Load Room Controllers ensure that energy is not wasted when portable loads such as task lighting and computer monitors are plugged into building outlets. Plug Load Room Controllers should be installed to switch outlets for lighting and non-essential equipment in private offices, open offices, lunch rooms and break rooms and other areas in commercial buildings. They are appropriate for LEED projects and help building owners realize a higher return on investment on energy code-required occupancy sensors.

Features

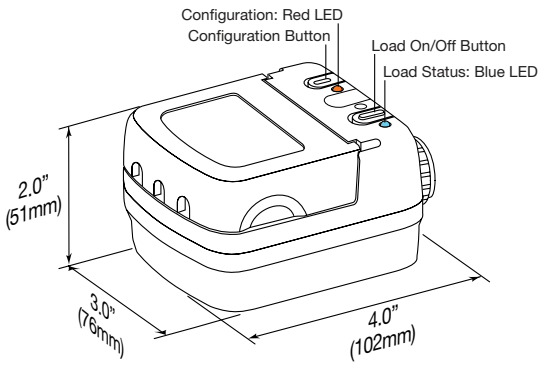
- Plug n' Go™ automatic configuration for quick installation and maximum energy savings
- Push n' Learn™ functionality for personalization without the need for tools or a PC
- Digital Lighting Management components plug together on a free-topology Cat 5e DLM local network
- Load On/Off button
- LED indicates status of connected load
- 3 RJ45 ports with integral strain relief and hinged dust cover
- Zero-crossing circuitry for reliability and increased product life
- Attach to standard electrical box through ½" knockout; UL2043 plenum rated
- Ships with "Sensor Controlled" labels for connected outlets
- RoHS compliant
- Qualifies for ARRA-funded public works projects

Specifications

- Input/ouput voltage: 120VAC, 60Hz
- Load ratings:
  - Ballast: 20A
  - Incandescent: 20A
  - Motor load: 1Hp
- Class 2 output to DLM local network: 24VDC, 150mA across 3 RJ45 ports
- DLM local network parameters with LMPL-101 and/or LMRC-100 Series Room Controllers only:
  - Maximum current: 600mA
  - Category 5e cable, up to 1,000'
  - Maximum of 4 room controllers, controlling up to 8 loads
  - Up to 24 communicating devices
- Operating conditions: for indoor use only; 32-104°F (0-40°C); 5-95% RH, non-condensing
- UL and cUL listed
- FCC part 15 compliant
- Five year warranty

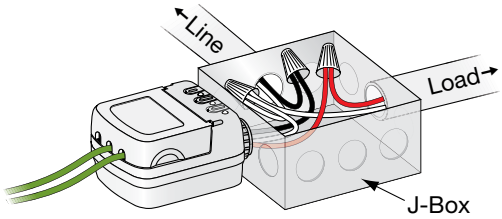
Controls & Mounting

Controls and Dimensions

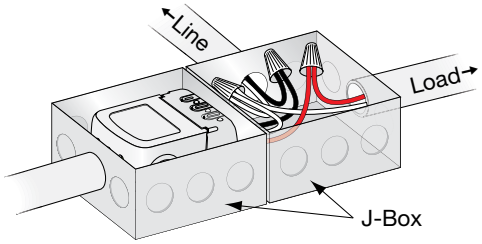


LMPL-101 Plug Load Room Controllers include a 1/2" (12.7mm) threaded nipple and locking ring.

Mounting and Wiring



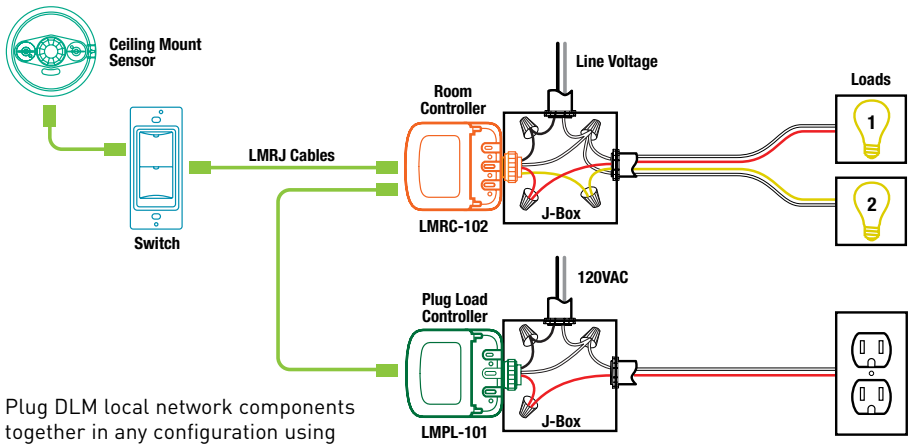
Mounting outside a j-box (plenum space). Two LMPL and/or LMRC Room Controllers may be mounted to the j-box.



Mounting inside a j-box.

Connecting

Sample Connection Diagram for Bi-Level Lighting and Plug Load Control



Plug DLM local network components together in any configuration using Cat 5e cables with RJ45 connectors.

Ordering Information

Catalog No.	Description	Voltage	Load Rating			Class 2 Output
			Ballast(A)	Incan(A)	Motor	
☐ LMPL-101 ☐ LMPL-101-U	Plug Load Room Controller	120VAC, 60Hz	20	20	1 Hp	24 VDC 150 mA