# LMPC-100 Digital PIR Ceiling Mount Occupancy Sensor

**Passive infrared sensor with a choice of three 360° coverage patterns**

**Extended height lens option for mounting heights up to 40'**

**Quick access to Push n' Learn for system personalization**

**Digital sensor with LCD display and programming pushbuttons behind snap-off cover**

**IR transceiver for wireless configuration and remote control**

**Low profile design for architectural appeal**

| PROJECT | |
|---|---|
| LOCATION/TYPE | |

## Product Overview

### Description

The LMPC-100 low profile Digital PIR Ceiling Mount Occupancy Sensor uses passive infrared (PIR) technology and one of three lenses to detect occupancy in different types of spaces for energy-efficient control of lighting and plug loads. It is a digital sensor, and is part of a WattStopper Digital Lighting Management (DLM) system.

### Operation

The LMPC-100 operates on Class 2 power supplied to a DLM local network by one or more DLM room controllers. It works with the room controller(s) to turn loads on and off based on occupancy. Default operation is established by Plug n' Go, which automatically configures system components to maximize energy savings. Initially, all occupancy sensors control all loads on the same local network. Each LMPC-100 may be assigned to a specific load; load assignments and load parameters may be changed using Push n' Learn. The LMPC-100 may be reconfigured either using the pushbuttons and an LCD screen conveniently located behind the snap-off front sensor cover, or with a wireless configuration tool.

### Digital Settings and IR Communications

The LMPC-100 includes a unique, easy-to-access, LCD screen that displays sensor parameters and simplifies changing those parameters. Time delay and sensitivity can be precisely adjusted and walk through mode can be activated. Changes are made at the sensor with easy-to-use pushbuttons, or via a wireless configuration tool that communicates with the sensor using a bi-directional infrared (IR) signal. The LMPC-100 IR transceiver allows wireless system operation in addition to configuration. The LCD display also facilitates system personalization, showing load information when in Push n' Learn mode.

### Applications

The LMPC-100 sensors, with different lenses for different spaces, are ideal for high and low ceiling areas including open offices, computer rooms, conference rooms, classrooms, warehouses and gyms. Sensor coverage for walking motion is approximately 1,000 square feet using the extended range lens, 450 square feet using the high density lens and 3,800 square feet using the extended height lens. The high density lens is ideal for detecting desktop activity, and small motion coverage is up to 300 square feet.

## Features

- Plug n' Go™ automatic configuration for quick installation and maximum energy savings
- Push n' Learn™ functionality for customization without the need for tools or a PC
- Digital Lighting Management components plug together on a free-topology Category 5e DLM local network
- Infrared (IR) transceiver for wireless configuration and control
- 360 degree PIR coverage
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- RoHS compliant
- Qualifies for ARRA-funded public works projects

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## Specifications

- Input voltage: 24VDC from DLM network
- Current consumption: 7mA
- DLM local network connection: 2 RJ45 ports
- LCD display and pushbuttons for setting sensor and system parameters
- Infrared (IR) transceiver

- 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 & Dimensions
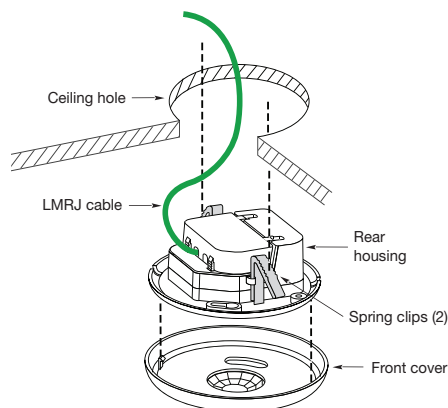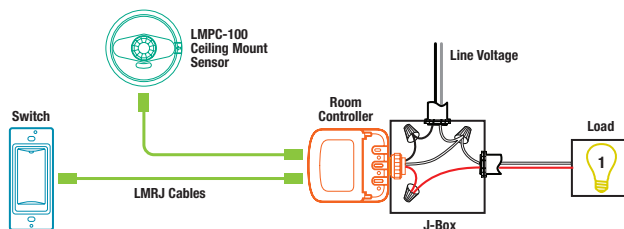
### Product Controls and Sensor Settings

Red LED
Up button ↑
Down button ↓
LCD display

Blue LED
Feature button
Configuration button
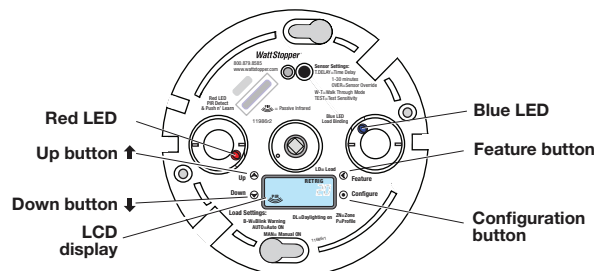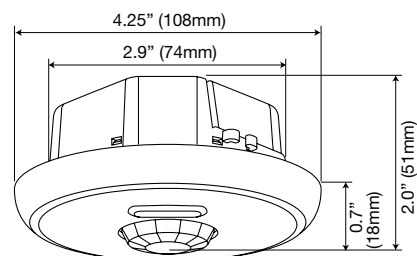
| Sensor Parameter | Available Options | Default Setting |
|---|---|---|
| Time Delay | 1-30 min. (1 min. increments) / Override | 20 minutes |
| Walk Thru | On/Off | Off |
| PIR Sensitivity | 10-100% (10% increments)/Off | 90% |
| Test Mode | Activate | Off |

### Product Dimensions

4.25" (108mm)
2.9" (74mm)
2.0" (51mm)
0.7" (18mm)

### Mounting Options

Ceiling hole
LMRJ cable
Rear housing
Spring clips (2)
Front cover

Mount directly to ceiling tile using spring clips (included) or to a 4˝ octagonal box. See installation instructions for more details.

## Mounting & Connecting

### Sample Connection Diagram

LMPC-100 Ceiling Mount Sensor
Switch
LMRJ Cables
Room Controller
Line Voltage
Load 1
J-Box

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

## Coverage

### Coverage Patterns

10' 3.05m

15.8 4.8m  10' 3m  5' 1.5m  0  5' 1.5m  10' 3m  15.8 4.8m

31.6' 9.63m

LMPC-100, extended range lens

10' 3.05m

8.63' 2.6m  6' 1.8m  4' 1.2m  2' 0.6m  0  2' 0.6m  4' 1.2m  6' 1.8m  8.6 2.6

17.25' 5.25m

LMPC-100-1, high density lens

SIDE VIEW:
40' (12.2m)
20' (6.1m)

40' (12.2m) 30' (9.1m) 20' (6.1m) 10' (3.0m) 0 10' (3.0m) 20' (6.1m) 30' (9.1m) 40' (12.2m)

35' (9.1m)
20' (6.1m)
10' (3.0m)
10' (3.0m)
20' (6.1m)
35' (9.1m)

LMPC-100-5, extended height lens
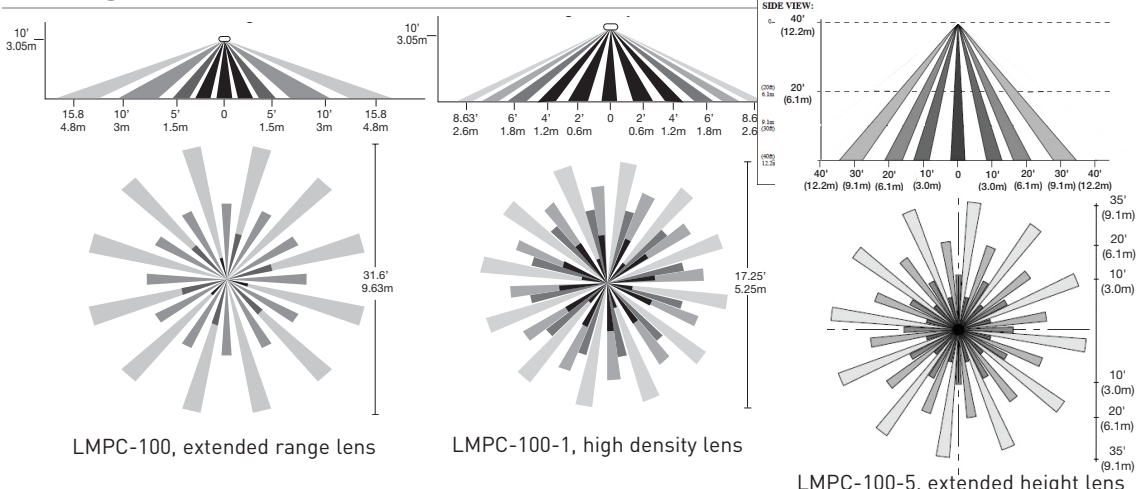
## Ordering Information

| Catalog No. | Color | Description |
|---|---|---|
| LMPC-100 | White | Digital PIR Ceiling Mount Occupancy Sensor, extended range lens |
| LMPC-100-U | White | Digital PIR Ceiling Mount Occupancy Sensor, extended range lens, ARRA-compliant* |
| LMPC-100-1 | White | Digital PIR Ceiling Mount Occupancy Sensor, high density lens |
| LMPC-100-1-U | White | Digital PIR Ceiling Mount Occupancy Sensor, high density lens, ARRA-compliant* |
| LMPC-100-5 | White | Digital PIR Ceiling Mount Occupancy Sensor, extended height lens |

*Product produced in the U.S.