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› Legrand Watt Stopper LMDW-102-W DLM Dual-Tech Digital 2-Button Occupancy Sensor User Manual

## Legrand LMDW-102-W

# Legrand Watt Stopper LMDW-102-W DLM Dual-Tech Digital 2-Button Occupancy Sensor User Manual

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Legrand Watt Stopper LMDW-102-W DLM Dual-Tech Digital 2-Button Occupancy Sensor. This device is designed to automatically control lighting based on occupancy detection, utilizing both Passive Infrared (PIR) and Ultrasonic technologies for enhanced accuracy. It features a 2-button interface and is programmable via an infrared remote.

Product Identifier: 0210023292

## PRODUCT FEATURES

- DLM System 2-Button Switch
- 24VDC RJ45 Connection
- Dual-Tech (PIR & Ultrasonic) Occupancy Detection
- Infrared Remote Programmable
- White Finish

## SAFETY INFORMATION

Please read and understand all instructions before installing or operating this device. Failure to follow these instructions may result in electrical shock, fire, or property damage. Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.

- **WARNING:** Turn off power at the circuit breaker or fuse box before installation or servicing.
- This device is designed for **Indoor Use ONLY**.
- Do not install in wet locations or where exposed to extreme temperatures.
- Ensure all connections are secure and properly insulated.

## SETUP AND INSTALLATION

The LMDW-102-W sensor is designed for wall-mount installation and connects via a 24VDC RJ45 connection as part of a Digital Lighting Management (DLM) system.

1. **Power Disconnection:** Before beginning installation, ensure that power to the circuit is turned off at the main service panel.
2. **Mounting:** Mount the sensor in a standard wall box. Ensure the mounting plate is securely fastened to the wall box.
3. **Wiring:** Connect the RJ45 cable from the DLM system to the RJ45 port on the back of the sensor. Ensure the connection is firm. This device operates on 24VDC.
4. **Sensor Orientation:** Position the sensor to ensure optimal coverage of the desired area. Avoid obstructions that might block the sensor's view.
5. **Secure Device:** Once wired, carefully push the device into the wall box and secure it with the provided screws. Attach the wall plate (not included) if applicable.
6. **Power Restoration:** Restore power at the circuit breaker. The sensor will perform a self-test.



Figure 1: Front view of the Legrand Watt Stopper LMDW-102-W sensor, showing the two buttons and sensor grille, mounted on a metal plate. The label 'Indoor Use ONLY' is visible.

The LMDW-102-W sensor provides both automatic occupancy detection and manual control via its two push buttons.

## Automatic Operation (Occupancy Detection)

The sensor uses both Passive Infrared (PIR) and Ultrasonic technologies to detect occupancy. When motion is detected, connected lights will turn on automatically. After a period of no detected occupancy (determined by system settings), the lights will turn off automatically.

## Manual Control

The two buttons on the sensor allow for manual override of the automatic control:

- **Top Button:** Typically used to manually turn lights ON or to increase light levels.
- **Bottom Button:** Typically used to manually turn lights OFF or to decrease light levels.

The exact function of these buttons can be programmed using an infrared remote control (sold separately) to suit specific application requirements within the DLM system.

## Infrared Remote Programming

The sensor's settings, such as sensitivity, time delay, and button functions, can be adjusted using a compatible Legrand Watt Stopper infrared remote control. Refer to the remote control's manual for specific programming instructions.

## MAINTENANCE

The LMDW-102-W sensor requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically wipe the sensor lens and housing with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the device.
- **Inspection:** Regularly inspect the sensor for any physical damage or loose connections.
- **Obstructions:** Ensure that the sensor's detection area remains clear of obstructions (e.g., furniture, tall plants) that could block its view and affect performance.

## TROUBLESHOOTING

| Problem                              | Possible Cause   | Solution  |
|--------------------------------------|--|---|
| Lights do not turn on automatically. | No motion detected; power off; incorrect wiring; sensor obstructed; sensitivity too low. | Verify motion in detection area; check circuit breaker; inspect wiring; clear obstructions; adjust sensor sensitivity via remote. |
| Lights remain on.                    | Constant motion detected; time delay set too long; sensor faulty.                        | Ensure no constant motion; adjust time delay via remote; contact support if issue persists.                                       |
| Lights turn off too quickly.         | Time delay set too short; sensor sensitivity too low; sensor obstructed.                 | Adjust time delay via remote; increase sensor sensitivity; clear obstructions.  |
| Manual buttons do not respond.       | No power; incorrect programming; button malfunction.                                     | Check power; verify programming with remote; contact support.   |

## SPECIFICATIONS

| Feature | Detail     |
|---------|------------|
| Model   | LMDW-102-W |

| Feature                         | Detail                             |
|---------------------------------|------------------------------------|
| Brand                           | Legrand (Wattstopper)              |
| Operation Mode                  | Manual / Automatic (Occupancy)     |
| Operating Voltage               | 24 VDC                             |
| Detection Technology            | Dual-Tech (PIR & Ultrasonic)       |
| Connector Type                  | RJ45 (for DLM System)              |
| Switch Type                     | Push Button (2-way circuit)        |
| Control Method                  | Remote (Infrared)                  |
| Mounting Type                   | Wall Mount                         |
| Color                           | White                              |
| Material                        | Stainless Steel (Contact Material) |
| Item Dimensions (L x W x H)     | 5 x 2 x 2 inches                   |
| Item Weight                     | 0.3 Pounds                         |
| International Protection Rating | IP54                               |
| Specification Met               | RoHS                               |

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Legrand Watt Stopper website or contact their customer service department. Keep your purchase receipt for warranty claims.

**Online Resources:** [Legrand Watt Stopper Official Website](#)

