

## Defiant 49820

# Defiant SunSmart 8 Amp In-Wall Digital Timer-49820 User Manual

Model: 49820

## INTRODUCTION

The Defiant SunSmart 8 Amp In-Wall Digital Timer-49820 is designed to enhance both security and convenience in your home. This innovative device features a motion sensor that automatically activates connected lights upon detecting movement, and then initiates a countdown timer for automatic shut-off. It is ideal for controlling indoor and outdoor lighting, providing automated control based on motion and programmed schedules.

## SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **WARNING:** Risk of Electric Shock. Installation requires working with electrical wiring. If you are not familiar with electrical wiring, consult a qualified electrician.
- Disconnect power at the circuit breaker or fuse box before installation or servicing.
- Do not use this device with appliances that could cause unsafe conditions when unattended, such as sunlamps, saunas, heaters, or coffee makers.
- This timer is for indoor use only. Do not expose to rain or moisture.
- Ensure all wire connections are secure and properly insulated.
- Observe all local and national electrical codes.

## PACKAGE CONTENTS

Verify that all components are present before beginning installation.



Image: Front view of the Defiant SunSmart In-Wall Digital Timer packaging, displaying the timer unit, a separate motion sensor, and key features.

- Defiant SunSmart In-Wall Digital Timer (Model 49820)
- Wireless Motion Sensor
- White and Light Almond faceplates
- Mounting Screws
- Wire Nuts
- Instruction Manual (this document)

## INSTALLATION & SETUP

This section provides step-by-step instructions for installing your Defiant SunSmart Digital Timer. It is recommended to have basic electrical knowledge or consult a professional.



Image: Detailed view of the Defiant SunSmart In-Wall Digital Timer unit, showing its digital display and control buttons.

## 1. Wiring the Timer

1. **Turn Off Power:** Locate the circuit breaker controlling the light switch you intend to replace and turn it OFF. Verify power is off using a voltage tester.
2. **Remove Old Switch:** Carefully remove the existing wall plate and unscrew the old switch from the wall box. Disconnect the wires from the old switch.
3. **Identify Wires:**
  - **LINE (Hot) Wire:** Usually black, brings power from the circuit breaker.
  - **LOAD Wire:** Usually black, goes to the light fixture.
  - **NEUTRAL Wire:** Usually white, required for digital timers. If not present, consult an electrician.
  - **GROUND Wire:** Usually bare copper or green.
4. **Connect New Timer:** Connect the wires from the wall box to the corresponding wires on the Defiant timer using wire nuts.
  - Connect the timer's LINE wire to the wall box LINE wire.
  - Connect the timer's LOAD wire to the wall box LOAD wire.
  - Connect the timer's NEUTRAL wire to the wall box NEUTRAL wire.
  - Connect the timer's GROUND wire to the wall box GROUND wire.
5. **Mount Timer:** Gently push the wired timer into the wall box. Secure it with the provided screws. Attach the desired faceplate (white or light almond).
6. **Restore Power:** Turn the power back ON at the circuit breaker.

## 2. Motion Sensor Setup

1. **Install Batteries:** Open the battery compartment on the wireless motion sensor and insert the required batteries (not included, typically AAA). Ensure correct polarity.
2. **Pairing:** Follow the instructions in the timer's display menu to pair the motion sensor with the in-wall timer. This usually involves pressing a button on both devices within a certain timeframe.
3. **Mount Sensor:** Choose a suitable location for the motion sensor, ensuring it has a clear line of sight to the area you wish to monitor. Mount it using the provided hardware or adhesive.

## OPERATING INSTRUCTIONS

The Defiant SunSmart timer offers various modes and programming options for automated lighting control.

### Setting the Current Time and Date

1. Press the "MENU" button to access the main menu.
2. Navigate to "SET TIME/DATE" using the arrow buttons.
3. Adjust the year, month, day, hour, and minute using the UP/DOWN buttons. Press "ENTER" or "NEXT" to confirm each setting.

### Programming Schedules

The timer allows for multiple ON/OFF programs. You can set programs based on specific times or utilize the SunSmart feature for automatic adjustment to sunrise/sunset times.

1. From the main menu, select "PROGRAMS".
2. Choose an available program slot (e.g., P1 ON, P1 OFF).

3. Select the days of the week for the program to be active (e.g., Mon-Fri, Everyday, Weekend).
4. Set the desired ON or OFF time. You can choose a specific time or select "SUNRISE" or "SUNSET" for automatic adjustment.
5. Repeat for all desired ON/OFF events.

## Motion Sensor Operation

The motion sensor can be configured to turn lights on when motion is detected and then off after a set delay.

- **Motion Sensor Activation:** When motion is detected, the lights will turn on.
- **Adjusting Delay:** In the timer's settings, you can typically adjust the duration the lights remain on after the last detected motion (e.g., 5 minutes, 15 minutes, 30 minutes).
- **Override:** The timer can usually be manually overridden by pressing the ON/OFF button on the timer itself.

## Random Vacation Security Option

Activate this mode to randomly turn lights ON and OFF during your absence, creating the illusion of occupancy for added security.

- Access the "MODES" or "FEATURES" menu.
- Select "VACATION MODE" or "RANDOM".
- Confirm activation. The timer will then randomly activate lights within a set timeframe.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Defiant SunSmart timer.

- **Cleaning:** Wipe the timer and motion sensor surfaces with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement (Motion Sensor):** When the motion sensor's battery indicator shows low power, replace the batteries promptly. Use the specified battery type (e.g., AAA).
- **Firmware Updates:** Check the manufacturer's website periodically for any available firmware updates, though this model may not support user-updatable firmware.

## TROUBLESHOOTING

If you experience issues with your Defiant SunSmart timer, refer to the following common problems and solutions.

Problem	Possible Cause / Solution
Timer display is blank.	No power to the timer. Check circuit breaker. Incorrect wiring. Verify LINE and NEUTRAL connections.
Lights do not turn ON/OFF at programmed times.	Incorrect time/date setting. Re-set current time and date. Programs are not enabled or set correctly. Review program settings. Daylight Saving Time setting may be incorrect.

Problem	Possible Cause / Solution
Motion sensor is not activating lights.	Motion sensor batteries are low or dead. Replace batteries. Sensor is out of range or obstructed. Reposition sensor. Sensor is not paired with the timer. Re-pair the devices. Motion sensing feature is disabled in timer settings. Enable it.
Lights stay on constantly or do not turn off.	Timer is in manual override mode. Press the ON/OFF button to return to automatic mode. Motion sensor is continuously detecting motion. Adjust sensor placement or sensitivity. Faulty timer unit.

## SPECIFICATIONS

Feature	Detail
Brand	Defiant
Model Number	49820
Power Source	Corded Electric
Amperage	8 Amp
Mounting Type	Wall Mount
Compatible Devices	Light (Incandescent, LED, CFL)
Motion Sensor Range	Up to 12 Meters (approx. 39 feet)
Product Dimensions	1 x 2.38 x 4.14 inches
Item Weight	8 ounces
Color	White (includes Light Almond faceplate)
UPC	043180498205

## WARRANTY AND SUPPORT

Defiant products are designed for reliability and performance. While specific warranty details are not provided in this manual, most Defiant products come with a limited warranty covering defects in materials and workmanship. For warranty claims, technical support, or further assistance, please contact Defiant Customer Service. Keep your proof of purchase for warranty validation.

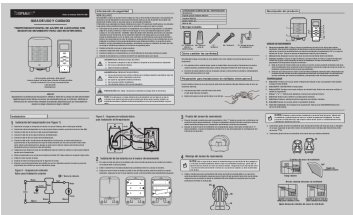
- **Online Support:** Visit the official Defiant website for FAQs, product registration, and support resources.
- **Telephone Support:** Refer to the product packaging or Defiant's official website for customer service contact numbers.

*Note: This product may be refurbished. Refurbished products are tested and certified to look and work like new. The refurbishing process includes functionality testing, basic cleaning, inspection, and repackaging. The product ships with all relevant accessories, and may arrive in a generic box.*

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For more information, visit [www.defiant.com](http://www.defiant.com)

Documents - Defiant – 49820

[pdf] User Manual Catalog



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