Westek TMMW20

Westek TMMW20 Hardwire Indoor Self-Learning Wall Switch Timer

Model: TMMW20

Official Westek Product Manual

1. Introduction

The Westek TMMW20 is a hardwire indoor self-learning wall switch timer designed to provide automated control over your lighting. This timer replaces a standard wall switch and can be programmed to turn lights ON and OFF at specific times, enhancing convenience and energy efficiency. Its self-learning feature adapts to your usage patterns, offering a dynamic scheduling solution.

2. Safety Information

WARNING: RISK OF ELECTRIC SHOCK. TURN OFF POWER AT CIRCUIT BREAKER OR FUSE BEFORE INSTALLATION.

- Installation should be performed by a qualified electrician or a person familiar with electrical wiring.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not exceed the specified electrical ratings of the device.
- This device is for indoor use only.
- Do not use with dimmers or 3-way switches.

3. Product Overview

The Westek TMMW20 is a compact wall switch timer designed for seamless integration into your existing electrical system. It features a rotary dial for time setting and a slide switch for manual control and clearing settings.



Figure 3.1: Front view of the Westek TMMW20 timer, showing the rotary dial, OFF/CLEAR and ON slide switch, and wiring leads.

Key Features:

- **Hardwire Installation:** Replaces a standard wall switch.
- **Self-Learning Technology:** Observes and adapts to your daily ON/OFF patterns.
- **Manual Override:** Allows temporary control without affecting programmed settings.
- **Dial Interface:** Simple rotary dial for setting time and programming.
- **Indoor Use:** Designed for interior lighting applications.

4. Setup (Installation)

Before beginning installation, ensure you have the necessary tools: screwdriver, wire strippers, electrical tape, and voltage tester.

1. **Turn Off Power:** Locate the circuit breaker or fuse that controls the light switch you intend to replace. Turn off the power completely to avoid electric shock. Verify power is off using a voltage tester.

2. **Remove Old Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box. Disconnect the wires from the old switch, noting which wire was connected to which terminal (e.g., line, load).
3. **Connect Wires:** The Westek TMMW20 timer typically has two wires. Connect one wire from the timer to the LINE (incoming power) wire from your wall box and the other timer wire to the LOAD (to light fixture) wire. Use wire nuts to secure connections. If your wall box has a ground wire, ensure it is properly terminated.
4. **Mount Timer:** Carefully push the connected wires back into the wall box. Secure the Westek TMMW20 timer into the wall box using the provided screws.
5. **Install Wall Plate:** Attach the new or existing wall plate over the timer.
6. **Restore Power:** Turn the power back on at the circuit breaker or fuse.

Consult a qualified electrician if you are unsure about any part of the installation process.

5. Operating

The TMMW20 timer features a self-learning mode and a manual dial for setting specific ON/OFF times. Understanding how these modes interact is key to effective operation.



Figure 5.1: Example of a hand interacting with a lighting control dial.

Setting Current Time:

Rotate the outer dial until the current time aligns with the small arrow indicator at the top of the timer. The dial is marked with 12-hour AM/PM segments (e.g., 12 is midnight/noon, 6 is 6 AM/PM).

Self-Learning Mode:

The timer automatically learns your ON/OFF patterns over several days. To activate this, simply use the light switch manually as you normally would. The timer will record these patterns and begin to replicate them. The red indicator light signifies that the timer is in active mode.

Setting Specific ON/OFF Times (Manual Programming):

While the self-learning feature is convenient, you can also program specific ON/OFF times. This is done by rotating the dial and pressing it in at the desired times.

1. **To Set an ON Time:** Rotate the dial to the desired ON time. Press the dial inward firmly until it clicks. The timer will now register this as an ON event.
2. **To Set an OFF Time:** Rotate the dial to the desired OFF time. Press the dial inward firmly until it clicks. The timer will now register this as an OFF event.

Important Note on Manual Programming:

- The timer's internal clock must be synchronized with the actual time when setting events.
- When setting an ON or OFF time, the dial must be rotated to that specific time and pressed. For example, if you want the light to turn ON at 8 AM, rotate the dial to 8 AM and press it.
- If you are setting an ON time that has already passed in the current 12-hour cycle, the timer will not immediately activate the light. It will wait for the next occurrence of that programmed time.
- The self-learning mode can override manual settings if the manual ON/OFF actions conflict with the learned pattern. For consistent manual programming, it is recommended to set both ON and OFF times within a single 12-hour cycle, ensuring the current time is accounted for. For example, if it's 11:30 AM and you want lights on from 8 AM to 2 PM, you must first rotate the dial back to 8 AM and press it to set the ON time. Then, you must wait until after 2 PM to set the OFF time, as the system will activate if you rotate past the current time (11:30 AM) to 2 PM before setting the OFF time.

Manual Override (OFF/CLEAR and ON Slide Switch):

The slide switch on the timer allows for immediate manual control:

- **OFF/CLEAR:** Sliding the switch to this position will turn the light OFF immediately. Holding it in this position for a few seconds will clear all learned and manually programmed settings, returning the timer to its default state.
- **ON:** Sliding the switch to this position will turn the light ON immediately.

6. Maintenance

The Westek TMMW20 timer requires minimal maintenance. Ensure the device is kept clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or abrasive materials. There are no user-serviceable parts inside the timer.

7. Troubleshooting

Problem	Possible Cause	Solution
Timer not turning lights ON/OFF at programmed times.	Incorrect current time setting; Self-learning mode overriding manual settings; Incorrect programming sequence.	Ensure the current time on the dial is accurate. If using manual programming, ensure you are setting both ON and OFF times correctly relative to the current time. Consider clearing all settings (slide to OFF/CLEAR and hold) and reprogramming. Allow the self-learning mode to observe patterns for a few days before expecting consistent automation.
Lights remain ON or OFF constantly.	Timer is in manual ON or OFF position; Power interruption.	Check the slide switch position and ensure it is not set to constant ON or OFF. Verify power supply to the timer. If power was interrupted, reset the current time and reprogram if necessary.
Timer dial is difficult to rotate or press.	Dust or debris; Mechanical issue.	Gently clean around the dial. Do not force the dial. If the issue persists, the unit may require replacement.

Problem	Possible Cause	Solution
Red indicator light is not on.	No power to the unit; Timer is in manual OFF mode.	Check circuit breaker. Ensure the slide switch is not in the OFF/CLEAR position.

8. Specifications

Attribute	Detail
Brand	Westek
Model	TMMW20
Part Number	TMMW20
Human Interface Input	Dial, Slide Switch
Mounting Type	Wall Mount
Product Dimensions	19.05 x 13.97 x 6.35 cm
Item Weight	158.76 g
UPC	070686506097

9. Warranty and Support

For warranty information and technical support, please refer to the Westek official website or contact their customer service directly. Keep your purchase receipt for warranty claims.
Westek Customer Service: Please visit the official Westek website for the most current contact information and support resources.

© 2024 Westek. All rights reserved.