Manuals+
Q & A | Deep Search | Upload

DEWENWILS PTZA02

DEWENWILS 800 Series Z-Wave Long Range Timer Instruction Manual

Model: PTZA02

Introduction Safety Information Product Overview Specifications Setup & Installation Operation Maintenance Troubleshooting Support

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DEWENWILS 800 Series Z-Wave Long Range Timer (Model: PTZA02). This heavy-duty smart switch is designed for controlling high-power devices such as pool pumps, heaters, AC units, and electric water heaters. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

2. Important Safety Information

WARNING: Risk of Electric Shock. Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always disconnect power at the circuit breaker before installing or servicing the device.
- Ensure all wiring connections are secure and properly insulated.
- Use copper conductors only. Wire size should be appropriate for the load (e.g., AWG 8-14 suitable for 90°C/194°F).
- This device is rated for 240VAC, 40-Amp, 3HP. Do not exceed these ratings.
- The enclosure is IP44 rated for outdoor use, but ensure the door is always closed after wiring or service.
- Do not immerse the device in water.

3. Product Overview and Features

The DEWENWILS PTZA02 is a robust Z-Wave enabled smart switch designed for demanding outdoor applications. Its metal housing provides durability and protection against environmental elements.

Key Features:

- **Z-Wave Protocol:** Ensures secure, stable, and long-range wireless communication. Requires a Z-Wave hub for smart control.
- **Heavy-Duty Capacity:** Supports up to 40A, 3HP at 240VAC.
- **Durable Construction:** Corrosion-resistant metal housing with an IP44 waterproof rating and flame-retardant PC core.
- **Wide Operating Temperature:** Functions reliably from -40°F to 140°F.
- **Multiple Operation Modes:** Manual ON/OFF/Mode options, or remote control via Z-Wave.
- **Secure Wiring:** Features secure screw terminals and a clear protective cover.
- **Universal Application:** Ideal for pool pumps, heaters, filters, spas, irrigation systems, and landscape lighting.

Component Identification:

Image Description: An open view of the DEWENWILS Z-Wave Long Range Timer, showing the internal components and their labels. Key parts include the Wi-Fi Antenna, Power Indicator, Power & Programming button, Load Indicator, Terminal Blocks, Knockouts, and the IP44 Weatherproof Rating label. The internal wiring diagram is also visible on the inside of the cover.

- **Wi-Fi Antenna:** For Z-Wave communication.
- **Power Indicator:** Shows power status.
- **Power & Programming Button:** Used for manual control and Z-Wave pairing.
- **Load Indicator:** Shows load status.
- **Terminal Blocks:** Secure points for electrical wiring connections.
- **Knockouts:** Pre-punched holes for conduit entry.

Image Description: The DEWENWILS Z-Wave Long Range Timer mounted on an exterior wall beside a swimming pool, illustrating its outdoor application. The image highlights its key specifications: 40A, 3HP, 240VAC, and ETL certification.

Image Description: A visual representation of the DEWENWILS Z-Wave Timer's weatherproof capabilities, showing it in both hot (140°F) and cold (-40°F) environments. Icons indicate IP44 waterproof rating, ETL listing, metal case construction, and the wide operating temperature range.

4. Technical Specifications

Feature	Detail
Model Number	PTZA02

Feature	Detail
Input Voltage	240VAC, 60Hz
Output Rating	40A Resistive, 3HP, 240VAC
Material	Metal, Plastic
Product Dimensions	9.42"D x 4.21"W x 7.75"H
Item Weight	2.79 pounds
Wireless Protocol	Z-Wave 800 Series (Long Range)
Environmental Rating	IP44 Weatherproof
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Certifications	ETL Listed

5. Setup and Installation

Professional installation by a qualified electrician is highly recommended due to the high voltage involved.

5.1 Pre-Installation Checklist:

- Ensure power is OFF at the main circuit breaker.
- Verify the voltage and amperage of your load are within the timer's specifications (240VAC, 40A, 3HP max).
- Gather necessary tools: screwdriver, wire strippers, voltage tester, conduit fittings (if applicable).
- Confirm you have appropriate copper wiring (AWG 8-14, 90°C/194°F rated).
- A Z-Wave hub is required for smart control features.

5.2 Mounting the Timer:

1. Choose a suitable outdoor location, away from direct water spray, but accessible for maintenance.
2. Mount the timer securely to a flat, vertical surface using appropriate screws and anchors.

5.3 Wiring Instructions:

The DEWENWILS PTZA02 is designed to control a single 240VAC load. Refer to the internal wiring diagram and the images below for guidance.

Image Description: A close-up view of the DEWENWILS Z-Wave Timer's internal wiring compartment, showing the terminal blocks labeled Load L1, Line 1, Load L2, and Line 2. A simplified diagram illustrates how to connect a single 240VAC load, with Power L1 connecting to Line 1, Power L2 connecting to Line 2, and the load connected between Load L1 and Load L2.

1. **Ensure power is OFF.** Double-check with a voltage tester.
2. Open the timer's enclosure.
3. Remove the appropriate knockouts for your conduit or cable entry.
4. Connect the incoming 240VAC power lines:
    - Connect Power Line 1 (L1) from your circuit breaker to the terminal labeled **Line 1**.

- Connect Power Line 2 (L2) from your circuit breaker to the terminal labeled **Line 2**.

5. Connect your 240VAC load (e.g., pool pump, water heater):
   - Connect one wire from your load to the terminal labeled **Load L1**.
   - Connect the other wire from your load to the terminal labeled **Load L2**.
6. Ensure all connections are tight and secure. Replace the clear protective cover over the terminals.
7. Close and latch the enclosure door securely to maintain its weatherproof rating.

Note: *The innovative wiring design aims to simplify installation. Always follow the specific diagram provided inside the unit and consult a professional if unsure.*

6. Operation

The DEWENWILS PTZA02 offers both manual control and smart control via a Z-Wave hub.

6.1 Manual Control:

The unit features a Power & Programming button for direct control:

- **Press once:** Toggles the connected load ON or OFF.
- The Load Indicator light will illuminate when the load is ON.

6.2 Z-Wave Smart Control:

To utilize the smart features, you must have a compatible Z-Wave hub (sold separately).

Image Description: A smartphone displaying a smart home application interface, showing control over a "pool timer" and other devices. The image illustrates the ability to customize scenes, control from anywhere, and schedule timed events using the Z-Wave timer. A Z-Wave hub is required for this functionality.

1. **Pairing with Z-Wave Hub:**
    - Put your Z-Wave hub into inclusion/pairing mode (refer to your hub's manual).
    - On the DEWENWILS timer, press the Power & Programming button three times quickly. The Z-Wave indicator light should flash, indicating it's attempting to pair.
    - Once successfully paired, the Z-Wave indicator will stop flashing and remain solid (or turn off, depending on hub feedback).

2. **Remote Control:**
    - After pairing, you can control the timer remotely via your Z-Wave hub's application on your smartphone, tablet, or computer.
    - This allows for scheduling, creating custom scenes, and controlling devices from any location with internet access.
3. **Z-Wave Long Range (LR) Technology:**
    - The 800 Series Z-Wave Long Range protocol provides extended wireless range and improved signal stability, reducing interference.

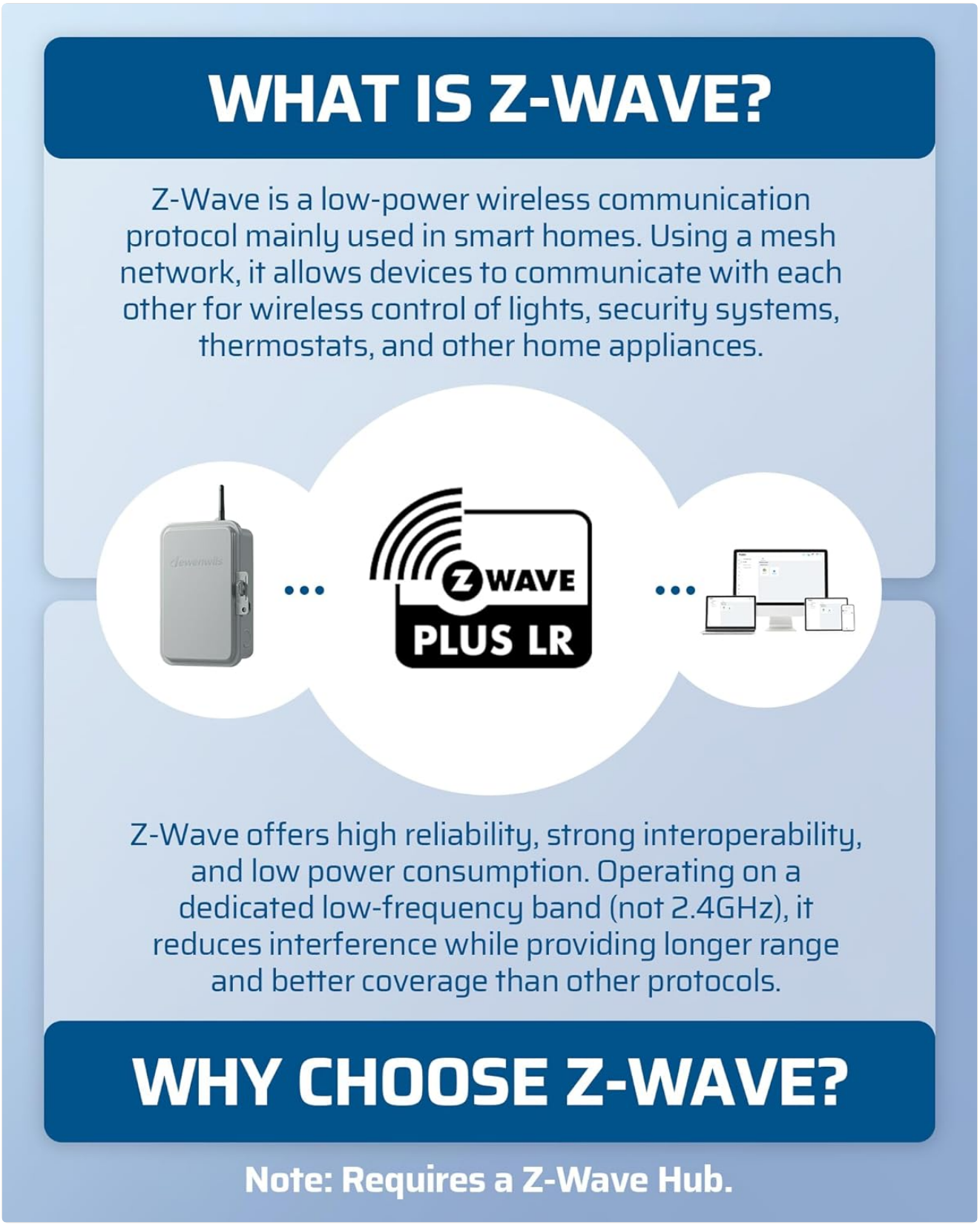


Image Description: An informational graphic explaining Z-Wave technology. It describes Z-Wave as a low-power wireless communication protocol for smart homes, using a mesh network for device communication. It highlights Z-Wave Plus LR for longer range and better coverage, emphasizing high reliability, strong interoperability, and low power consumption on a dedicated low-frequency band. A Z-Wave hub is noted as a requirement.

7. Maintenance

The DEWENWILS PTZA02 is designed for minimal maintenance. However, regular checks can ensure its longevity and safe operation.

- **Periodic Inspection:** Annually inspect the enclosure for any signs of damage, cracks, or corrosion.
- **Cleanliness:** Keep the exterior of the unit clean from dirt, dust, and debris. Use a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Wiring Connections:** Periodically (e.g., every 1-2 years) with power disconnected, check all wiring connections for tightness. Loose connections can cause overheating and fire hazards.
- **Seal Integrity:** Ensure the enclosure door gasket is intact and the door latches securely to maintain its IP44 weatherproof rating.

8. Troubleshooting

If you encounter issues with your DEWENWILS Z-Wave Timer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power from circuit breaker; loose wiring connection.	Check circuit breaker. Ensure power is OFF, then check all wiring connections for tightness.
Load does not turn ON/OFF.	Incorrect wiring; overloaded circuit; device malfunction.	Verify wiring against the diagram. Ensure load does not exceed 40A/3HP. If issues persist, contact support.
Cannot pair with Z-Wave hub.	Hub not in inclusion mode; device too far from hub; interference.	Ensure hub is in inclusion mode. Try pairing closer to the hub. Check for other wireless devices causing interference.
Z-Wave control is intermittent.	Weak Z-Wave signal; interference.	Ensure the Z-Wave network has enough repeaters. Relocate the hub or timer if possible.

If the problem persists after attempting these solutions, please contact DEWENWILS customer support.

9. Customer Support and Warranty

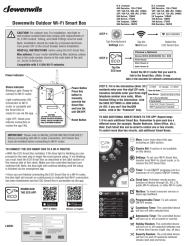
For technical assistance, warranty claims, or general inquiries, please contact DEWENWILS customer support through the following channels:

- **Website:** Visit the official DEWENWILS website for support resources and contact information.
- **Email:** Refer to your product packaging or the DEWENWILS website for the support email address.
- **Amazon Store:** You can also reach out via theDEWENWILS Amazon Store.

Warranty Information: Please refer to the warranty card included with your product or the DEWENWILS official website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

© 2025 DEWENWILS. All rights reserved.

Related Documents - PTZA02

	Dewenwils Outdoor Mechanical Timer Box HOMT01A Installation and Operation Manual Comprehensive guide for the Dewenwils Outdoor Mechanical Timer Box (SKU: HOMT01A), covering installation instructions, specifications, wiring diagrams for various applications (120VAC, 240VAC, 277VAC), operating instructions, and a one-year limited warranty.
	Dewenwils Indoor Mechanical Pin Timer Switch Instruction Manual Instruction manual for the Dewenwils Indoor Mechanical Pin Timer Switch, detailing its features, operation, specifications, and warranty.
	Dewenwils Outdoor Wi-Fi Smart Box Installation and User Guide Comprehensive guide for installing and using the Dewenwils Outdoor Wi-Fi Smart Box, including setup, programming, and troubleshooting.
	Dewenwils HOMT01B Outdoor Mechanical Timer Box Instruction Manual Comprehensive instruction manual for the Dewenwils HOMT01B Outdoor Mechanical Timer Box, detailing specifications, installation steps, wiring diagrams, operating instructions, and warranty information for reliable outdoor electrical timing applications.
	Dewenwils Power Saving Strip Timer HPST16M Instruction Manual User manual for the Dewenwils Power Saving Strip Timer, model HPST16M. Learn about product features, installation, operation, and specifications for this 24-hour programmable timer.
	Dewenwils Outdoor Mechanical Pin Timer HOMT11A Instruction Manual Instruction manual for the Dewenwils Outdoor Mechanical Pin Timer, model HOMT11A. Includes safety warnings, product layout, installation, operation instructions, specifications, and warranty information.