DEWENWILS ZWG08LR

DEWENWILS 800 Z-Wave Dongle Instruction Manual

Model: ZWG08LR

1. Introduction

The DEWENWILS 800 Z-Wave Dongle is a high-performance USB controller designed to integrate Z-Wave devices into your smart home system. Utilizing the latest 800 Series Z-Wave Long Range (LR) module, this dongle provides extended wireless coverage and enhanced security features for a reliable smart home network.

What's in the Box

- Z-Wave Dongle

2. Key Features

- **800 Series Long Range:** Powered by the latest 800 Series Z-Wave Long Range (LR) module, delivering ultra-long wireless coverage of up to 1 mile.
- **Universal Z-Wave Compatibility:** Supports both standard Z-Wave mesh devices (250 feet) and Z-Wave Long Range (1 mile) devices simultaneously, allowing efficient management of mixed Z-Wave networks.
- **USB Plug-and-Play:** Designed for easy installation, simply connect to your system without complex setup or additional hardware.
- **S2 Encrypted Security:** Enhances home network protection with advanced S2 security encryption, securing device communication and preventing unauthorized access.
- **Easy Upgrade Migration:** Facilitates smooth migration from older Z-Wave controllers (500, 700, or 800 series) using Z-Wave JS UI v9.9.0 or later, retaining existing devices.

3. Setup

Follow these steps to set up your DEWENWILS 800 Z-Wave Dongle.

3.1 Physical Connection

1. **Attach the Antenna:** Carefully screw the external antenna onto the main body of the Z-Wave dongle.
2. **Connect to USB Port:** Insert the Z-Wave dongle into an available USB 2.0 Type A port on your computer or compatible smart home hub.



Image: The DEWENWILS Z-Wave USB Dongle being plugged into a laptop's USB port, illustrating the plug-and-play installation.



Image: A two-step diagram illustrating how to connect the antenna to the dongle and then rotate the antenna to the desired angle for optimal signal.

3.2 Software Configuration (e.g., Home Assistant)

Once physically connected, the dongle requires software configuration within your chosen smart home platform, such as Home Assistant.

1. **Open Software:** Launch your smart home software (e.g., Home Assistant) on your computer or server.
2. **Install Plugin:** Configure and locate the dongle within your software's Z-Wave integration settings. Refer to your software's documentation for specific plugin installation and configuration steps.
3. **Add Z-Wave Devices:** Once the dongle is recognized and configured, you can begin pairing your Z-Wave devices according to your smart home software's instructions.

4. Operating

The DEWENWILS 800 Z-Wave Dongle acts as a gateway, enabling communication between your smart home hub and Z-Wave devices.

4.1 Z-Wave Network Management

The dongle allows your smart home hub to control and monitor Z-Wave devices. It supports both standard Z-Wave mesh and Z-Wave Long Range protocols, creating a versatile network.



Image: An illustration depicting the Z-Wave dongle as the central hub connecting various smart home devices, emphasizing its compatibility with Home Assistant and other Z-Wave ecosystems.

4.2 Long Range Capabilities

Leveraging the 800 Series Z-Wave LR module, the dongle extends your smart home network's reach significantly, up to 1 mile in open air. This allows for control of devices in larger homes or across properties.



Image: A visual representation of the dongle's ultra-long range capability, extending up to 1 mile, enabling control of smart devices in various areas like courtyards, basements, and garages.

4.3 S2 Security Encryption

The dongle incorporates S2 security encryption to protect your smart home network. This advanced encryption secures communication between devices and helps prevent unauthorized access, ensuring the privacy and integrity of your system.



Image: A visual representation of S2 encryption, showing a digital shield with a padlock, symbolizing enhanced security for the Z-Wave network connection.

5. Maintenance

To ensure optimal performance and longevity of your DEWENWILS 800 Z-Wave Dongle, consider the following maintenance guidelines:

- **Keep Clean:** Periodically clean the dongle and its antenna with a soft, dry cloth to prevent dust buildup.

- **Software Updates:** Regularly check for and apply updates to your smart home software (e.g., Home Assistant, Z-Wave JS UI) to benefit from the latest features, security patches, and compatibility improvements. For migration from older Z-Wave controllers, ensure you are using Z-Wave JS UI v9.9.0 or later.
- **Environmental Conditions:** Operate the dongle within recommended environmental conditions (temperature, humidity) to prevent damage.

6. Troubleshooting

If you encounter issues with your DEWENWILS 800 Z-Wave Dongle, consider the following common troubleshooting steps:

- **Dongle Not Recognized:** Ensure the dongle is fully inserted into a functional USB port. Try a different USB port or restart your host system. Verify that necessary drivers or software components are installed and updated.
- **Device Pairing Issues:** Ensure Z-Wave devices are within range and in pairing mode. Check for interference from other wireless devices. Consult your smart home software's documentation for specific pairing procedures.
- **Range or Connectivity Problems:** Ensure the antenna is securely attached and oriented for optimal signal. Relocate the dongle or Z-Wave devices to improve line-of-sight and reduce obstructions.
- **Software Configuration Errors:** Double-check your smart home software's configuration settings for the Z-Wave integration. Refer to the software's official documentation or community forums for assistance.

7. Specifications

Feature	Specification
Brand	DEWENWILS
Model Number	ZWG08LR
Hardware Interface	USB 2.0 Type A
Data Link Protocol	Z-WAVE
Compatible Devices	Desktop (and compatible smart home hubs)
Item Weight	0.634 ounces
Package Dimensions	4.06 x 1.73 x 0.67 inches



Image: A detailed diagram illustrating the physical dimensions of the Z-Wave USB dongle (2.28 inches) and its antenna (3.45 inches), highlighting the rotatable antenna feature.

8. Warranty Information

For detailed warranty information regarding your DEWENWILS 800 Z-Wave Dongle, please refer to the official DEWENWILS website or contact their customer service directly. Warranty terms and conditions may vary.

9. Support

Should you require technical assistance or have questions not covered in this manual, please visit the official DEWENWILS support page or contact their customer support team. Contact information can typically be found on the manufacturer's website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question