Minoston MP31Z

Minoston Z-Wave 800 Series Smart Plug (MP31Z) Instruction Manual

Model: MP31Z

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Minoston Z-Wave 800 Series Smart Plug (MP31Z). Please read this manual thoroughly before using the device to ensure proper function and safety. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The Minoston MP31Z is a compact Z-Wave 800 series smart plug designed to provide remote control and automation for connected devices. It features an updated 800 series Z-Wave chip for enhanced signal coverage and faster communication, including Z-Wave Long Range (LR) capabilities up to 1300ft (if supported by your hub). The plug supports S2 authenticated security and SmartStart for simplified pairing. It also functions as a Z-Wave repeater to strengthen your mesh network.

Image 2.1: Minoston Z-Wave 800 Series Smart Plug (MP31Z) and its packaging.

NEW Z-WAVE 800 SERIES SMART PLUG

Support Long Range

Extend the Wireless Coverage

Faster Communication

S2 Authenticated Security

SmartStart for Effortless Pairing

Z-WAVE PLUS LR

SmartStart + S2

Image 2.2: Key features of the Minoston Z-Wave 800 Series Smart Plug.

Key Features:

- **Z-Wave 800 Series Chip:** Provides improved signal coverage and faster communication.
- **Z-Wave Long Range (LR):** Extends wireless coverage up to 1300ft with compatible hubs.
- **S2 Authenticated Security:** Enhances protection against unauthorized access.
- **SmartStart:** Simplifies the setup process for automatic device inclusion.
- **Built-in Repeater:** Strengthens your Z-Wave mesh network.
- **Compact Design:** Allows two plugs to be used in a standard duplex outlet simultaneously.
- **Remote Control & Scheduling:** Control connected devices and set timers via a Z-Wave hub.
- **Group Control:** Manage multiple Z-Wave devices with a single command.
- **ETL Certified:** Ensures product safety and quality standards.

3. SAFETY INFORMATION

- **Risk of Electric Shock:** Do not expose to rain or water. Do not use in wet locations.
- **Indoor Use Only:** This device is intended for indoor use in dry locations.
- **Maximum Load:** Do not exceed the specified electrical ratings (125V, 15A, 1875W). Overloading may cause overheating and fire.

- **Appliance Compatibility:** Ensure the appliance connected to the smart plug is suitable for remote control. Do not use with appliances that could create hazardous conditions if turned on unexpectedly (e.g., heating elements, power tools).
- **Maintenance:** Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.

4. PACKAGE CONTENTS

- 1 x Minoston Z-Wave Smart Plug (MP31Z)
- 1 x Instruction Manual (this document)

5. SETUP AND INSTALLATION

A Z-Wave certified hub (sold separately) is required to utilize the smart features of this plug. Compatible hubs include SmartThings, Hubitat, Vera, Fibaro, Homeseer, and others.

5.1 Physical Installation

1. Ensure the power outlet is easily accessible.
2. Plug the Minoston MP31Z Smart Plug into a standard 120V AC wall outlet. The LED indicator on the plug will illuminate.
3. Connect the appliance you wish to control into the smart plug. Ensure the appliance's power requirements do not exceed the plug's maximum rating (15A, 1875W).
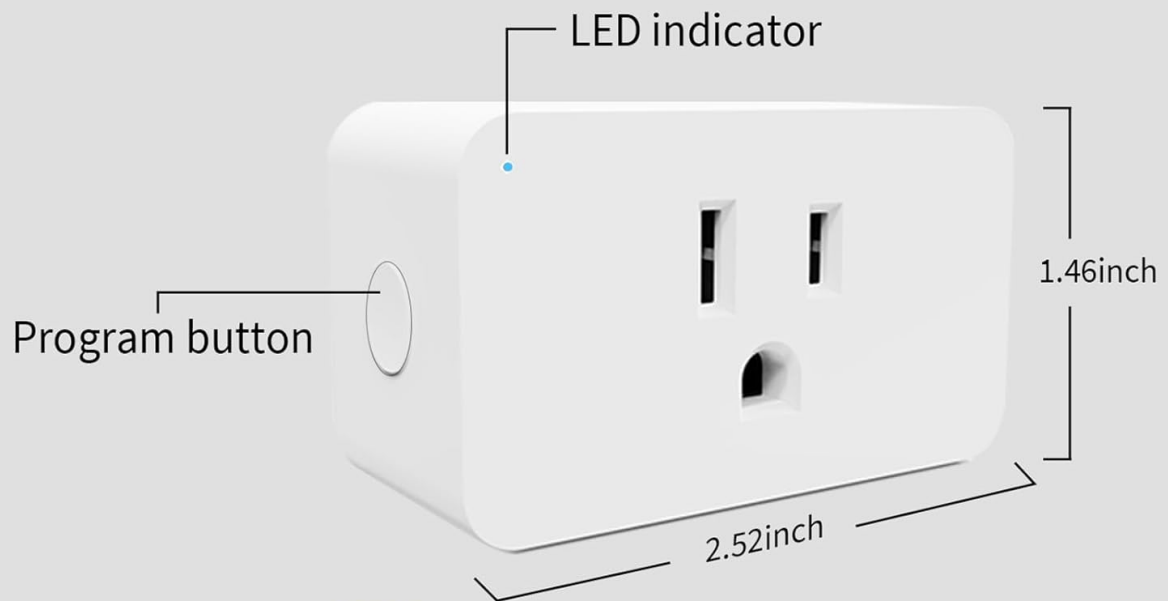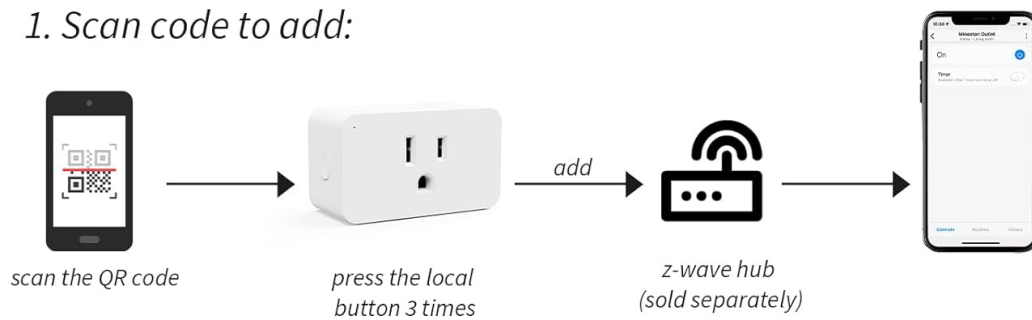
Small But Powerful

LED indicator

Program button

1.46inch

2.52inch

Max 15A

up to 15A, 1875W

Image 5.1: Minoston Smart Plug dimensions and features.
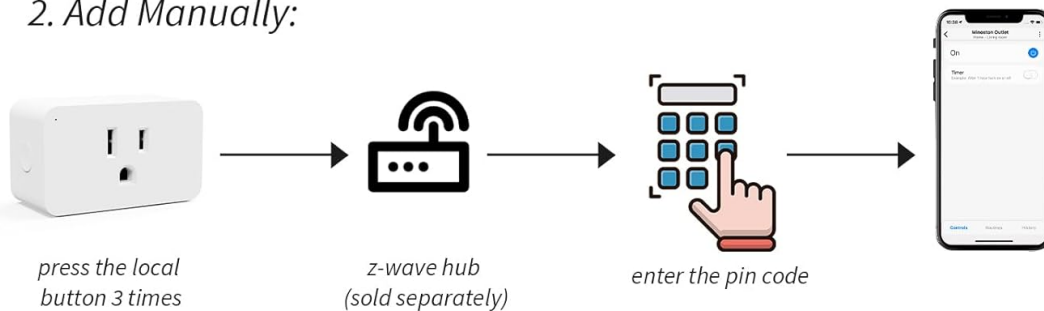
5.2 Z-Wave Network Inclusion (Adding the Device)

The Minoston MP31Z supports SmartStart for easy inclusion or traditional manual inclusion.

Easy to Setup with Z-Wave Hub：

1. Scan code to add:

scan the QR code   press the local button 3 times   *add*   z-wave hub (sold separately)

2. Add Manually:

press the local button 3 times   z-wave hub (sold separately)   enter the pin code

Compatible with SmartThings, Hubitat, Fibaro, Home Assistant, HomeSeer, Z-Box, Wink, Vera, etc.

Image 5.2: Z-Wave setup methods.

SmartStart Inclusion (Recommended for compatible hubs):

1. Ensure your Z-Wave hub supports SmartStart.
2. Open your Z-Wave hub's mobile application.
3. Select the option to 'Add Device' or 'Scan QR Code'.
4. Scan the QR code located on the smart plug or its packaging.
5. Plug the Minoston MP31Z into a power outlet. The device should automatically be added to your Z-Wave network.
6. If prompted, press the program button on the side of the plug three times quickly to confirm inclusion.
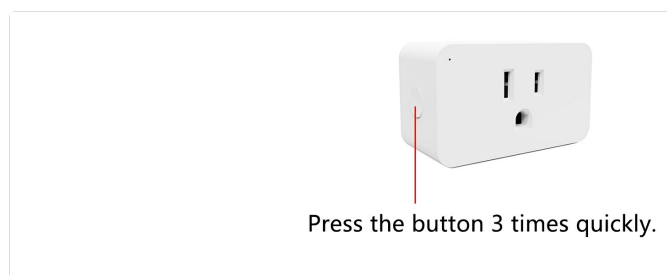
Press the button 3 times quickly.

Image 5.3: SmartStart QR code scanning for device inclusion.

Manual Inclusion:

1. Plug the Minoston MP31Z into a power outlet.

2. Put your Z-Wave hub into 'Inclusion' or 'Add Device' mode (refer to your hub's manual for specific instructions).

3. Press the program button on the side of the smart plug three times quickly. The LED indicator will flash to confirm inclusion mode.

4. Your hub should detect and add the device. The LED will stop flashing and remain solid blue or green (depending on hub communication) once successfully included.

5. If prompted, enter the DSK (Device Specific Key) or PIN code found on the product or packaging.
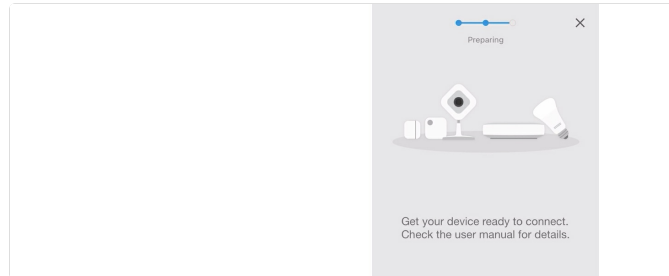
Image 5.4: Program button for inclusion/exclusion.

6. Operation

6.1 Manual Control

Press the program button on the side of the smart plug once to manually turn the connected appliance ON or OFF.
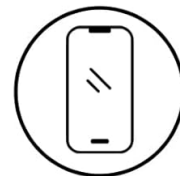
6.2 Remote Control via Z-Wave Hub

Once successfully included in your Z-Wave network, you can control the smart plug remotely using your Z-Wave hub's application on a smartphone, tablet, or computer.

APP Remote Control

Add the zwave plug to your z-wave hub
so that you can control it remotely from anywhere.

Compatible with SmartThings, Hubitat, Fibaro, Home Assistant, HomeSeer, Z-Box, Wink, Vera, etc.

Image 6.1: Remote control via Z-Wave hub application.

6.3 Setting Timers and Schedules

Use your Z-Wave hub's application to create custom schedules and timers for the smart plug. This allows connected appliances to turn ON or OFF automatically at specific times or based on events.

Image 6.2: Example of setting a timer for an appliance.

6.4 Group Control

Many Z-Wave hubs allow you to group multiple smart plugs or other Z-Wave devices. This enables simultaneous control of several devices with a single command, useful for managing lights in a room or multiple appliances.

6.5 Voice Control

If your Z-Wave hub is integrated with voice assistants like Amazon Alexa or Google Assistant, you can control the smart plug using voice commands.
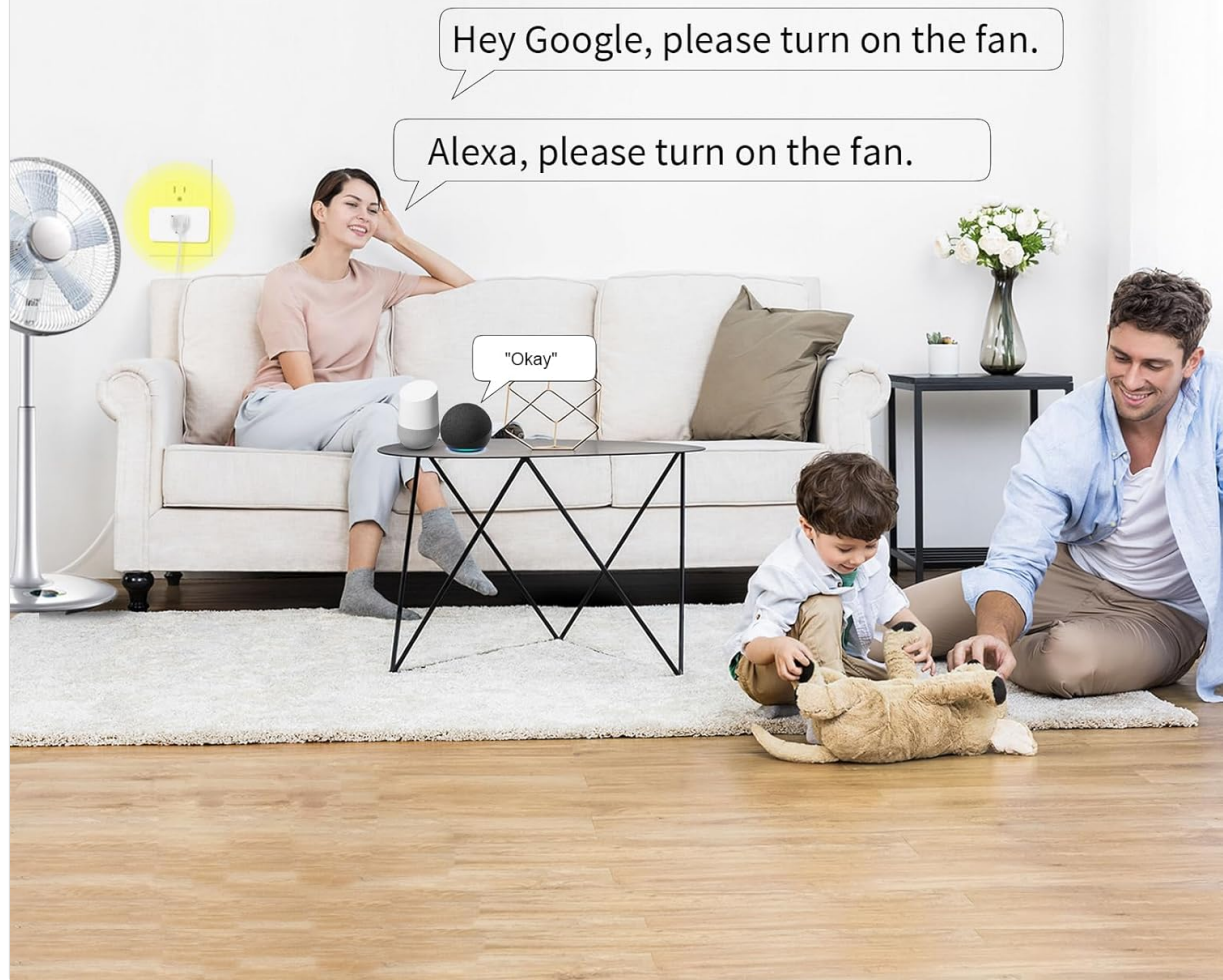
Image 6.3: Voice control functionality.

7. Z-Wave Network Exclusion (Removing the Device)

To remove the Minoston MP31Z Smart Plug from your Z-Wave network:

1. Plug the Minoston MP31Z into a power outlet.
2. Put your Z-Wave hub into 'Exclusion' or 'Remove Device' mode (refer to your hub's manual for specific instructions).
3. Press the program button on the side of the smart plug three times quickly. The LED indicator will flash to confirm exclusion mode.
4. Your hub should confirm the device has been removed. The LED will stop flashing and turn off or revert to its default state.

8. Advanced Features

8.1 Z-Wave Repeater Functionality

The Minoston MP31Z acts as a Z-Wave signal repeater. This means it receives Z-Wave commands and re-transmits them to other Z-Wave devices, extending the overall range and reliability of your Z-Wave mesh network. For optimal network performance, strategically place repeaters throughout your home.

8.2 Z-Wave Long Range (LR)

Equipped with the 800 series chip, this plug supports Z-Wave Long Range (LR) technology. When paired with a Z-Wave LR compatible hub, it can achieve significantly extended wireless communication distances, up to 1300 feet, reducing the need for multiple repeaters in large areas.

8.3 S2 Authenticated Security

The MP31Z incorporates S2 security, providing advanced encryption for communication between the device and your Z-Wave hub. This enhances protection against unauthorized access and tampering, contributing to a more secure smart home environment.
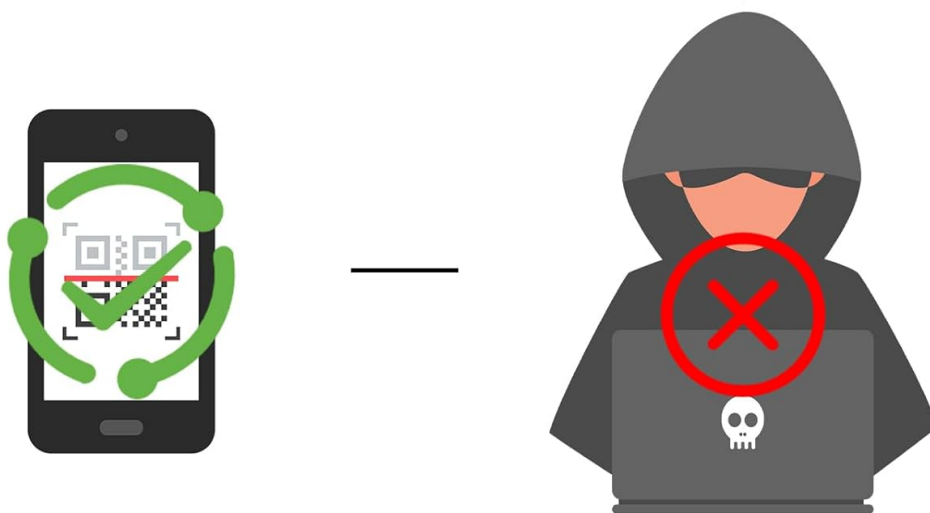
Image 8.1: SmartStart and S2 Security benefits.

9. TROUBLESHOOTING

- **Device not responding:**
    - Ensure the plug is securely inserted into the outlet and receiving power.
    - Verify the connected appliance is functioning correctly when plugged directly into a standard outlet.
    - Check the Z-Wave hub's status and network connectivity.

- Try re-including the device into your Z-Wave network.

- **Inclusion/Exclusion failure:**

  - Ensure the plug is within range of your Z-Wave hub during the inclusion/exclusion process.
  - Confirm your Z-Wave hub is in the correct inclusion/exclusion mode.
  - Perform an 'Exclusion' first, even if the device was never included, to clear any lingering network data. Then attempt inclusion again.
  - Refer to your Z-Wave hub's instruction manual for specific troubleshooting steps.

- **Poor Z-Wave range or intermittent connection:**

  - Z-Wave signals can be affected by obstacles like thick walls, large metal objects, or other electronic devices.
  - Relocate the smart plug or your Z-Wave hub to improve signal path.
  - Add more Z-Wave repeater devices (like this smart plug) to strengthen your mesh network.
  - Ensure your hub supports Z-Wave Long Range (LR) to benefit from the extended range capabilities of the MP31Z.

10. SPECIFICATIONS

Parameter	Value
Model Number	MP31Z (800S)
Power	125V AC, 60Hz
Maximum Load	15A, 1875W Resistive
Z-Wave Frequency	908.42 MHz
Operating Temperature	32-104° F (0-40° C)
Product Dimensions (HxWxD)	1.46 x 2.52 x 1.18 inches
Material	Polycarbonate (PC)
Certifications	ETL Listed

11. MAINTENANCE

The Minoston MP31Z Smart Plug requires minimal maintenance. To clean the device, wipe it with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the device is unplugged before cleaning.

12. WARRANTY AND SUPPORT

Minoston products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Minoston website. Please have your model number (MP31Z) and purchase information ready when contacting support.

13. REGULATORY COMPLIANCE

This device complies with Part 15 of the FCC Rules and is ETL Listed, indicating adherence to North American safety standards. Operation is subject to the following two conditions: (1) This device may not cause harmful

interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Related Documents - MP31Z

	[Minoston MP31Z-800S Z-Wave Smart Plug User Manual](#) User manual for the Minoston MP31Z-800S Z-Wave Smart Plug, detailing specifications, features, safety warnings, device setup, and technical command class information for Z-Wave networks.
	[Minoston MP31ZP Z-Wave Plug with Energy Monitor User Manual](#) User manual for the Minoston MP31ZP Z-Wave Plug with Energy Monitor. Details features, specifications, Z-Wave network setup, parameter configurations, and safety guidelines for smart home integration.
	[Minoston MP22Z Z-Wave Outdoor Smart Plug User Manual](#) User manual for the Minoston MP22Z Z-Wave Outdoor Smart Plug, detailing setup, network configuration, parameter settings, and safety precautions for smart home integration. Includes Z-Wave Plus compatibility and weather-resistant design.
	[Minoston MP22Z Z-Wave Outdoor Smart Plug User Manual](#) Comprehensive user manual for the Minoston MP22Z Z-Wave Outdoor Smart Plug, detailing setup, operation, parameter settings, Z-Wave interoperability, and safety instructions for smart home integration.
	[Minoston MP22ZP Z-Wave Outdoor Plug Energy Monitor User Manual](#) Detailed user manual for the Minoston MP22ZP Z-Wave Outdoor Plug Energy Monitor. Learn about installation, setup, features, parameter settings, Z-Wave network configuration, and safety guidelines.