Qubino ZMNHAD3

Qubino Z-Wave Plus 1 Relay Switch and Energy Monitor ZMNHAD3 User Manual

Model: ZMNHAD3

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Qubino Z-Wave Plus 1 Relay Switch and Energy Monitor, model ZMNHAD3. This device is designed to integrate seamlessly into your Z-Wave smart home network, offering remote control of connected loads and real-time energy consumption monitoring. Please read this manual thoroughly before installation and use.

2. Safety Information

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Disconnect power at the circuit breaker before installation or maintenance.
- **Indoor Use Only:** This device is intended for indoor use in dry locations only. Do not expose to moisture or extreme temperatures.
- **Load Compatibility:** Ensure the connected load does not exceed the maximum ratings specified in the technical specifications.
- **Children and Pets:** Keep the device out of reach of children and pets.

3. Product Overview

The Qubino ZMNHAD3 is a compact Z-Wave Plus module capable of controlling one electrical load and monitoring its energy consumption. Its small size allows for easy installation behind existing wall switches or in electrical boxes.

Figure 3.1: The Qubino ZMNHAD3 module, showing its compact design and wiring terminals. The module is blue with black internal components and a black wire extending from it.

Figure 3.2: The Qubino ZMNHAD3 module held in the palm of a hand, illustrating its remarkably small size.

Key Features:

- Z-Wave Plus certified for enhanced compatibility and range.
- Single relay output for controlling lights, fans, or other electrical appliances.
- Integrated energy monitoring for real-time power consumption (W) and total energy usage (kWh).
- Extremely compact design for easy installation.
- Supports external temperature sensor (optional, not included).

4. Setup and Installation

4.1 Wiring Diagrams

Before wiring, ensure the main power supply is disconnected at the circuit breaker. Follow the appropriate wiring diagram for your electrical system (110-240V AC or 24V DC).

Figure 4.1: Wiring diagrams for the Qubino ZMNHAD3. The left diagram shows connections for 110-240V AC power, and the right diagram shows connections for 24V DC power. Both diagrams include connections for Line (L), Neutral (N), inputs (I1, I2, I3), output (Q), and an optional temperature sensor (TS).

4.2 Inclusion (Pairing) with a Z-Wave Gateway

1. Ensure the Qubino ZMNHAD3 module is powered on and correctly wired.
2. Put your Z-Wave gateway (e.g., Wink, SmartThings, Vera) into inclusion/pairing mode. Refer to your gateway's manual for specific instructions.
3. Press the service button (I1 or I2, depending on wiring configuration) on the Qubino module three times within 3 seconds.
4. The gateway should detect and add the device. Once successfully included, the module will appear in your gateway's device list.

4.3 Exclusion (Unpairing) from a Z-Wave Gateway

1. Ensure the Qubino ZMNHAD3 module is powered on.

2. Put your Z-Wave gateway into exclusion/unpairing mode.
3. Press the service button (I1 or I2) on the Qubino module three times within 3 seconds.
4. The gateway should remove the device from its network.

5. Operating the Device

Once successfully included in your Z-Wave network, the Qubino ZMNHAD3 can be controlled via your Z-Wave gateway's interface or associated Z-Wave devices.

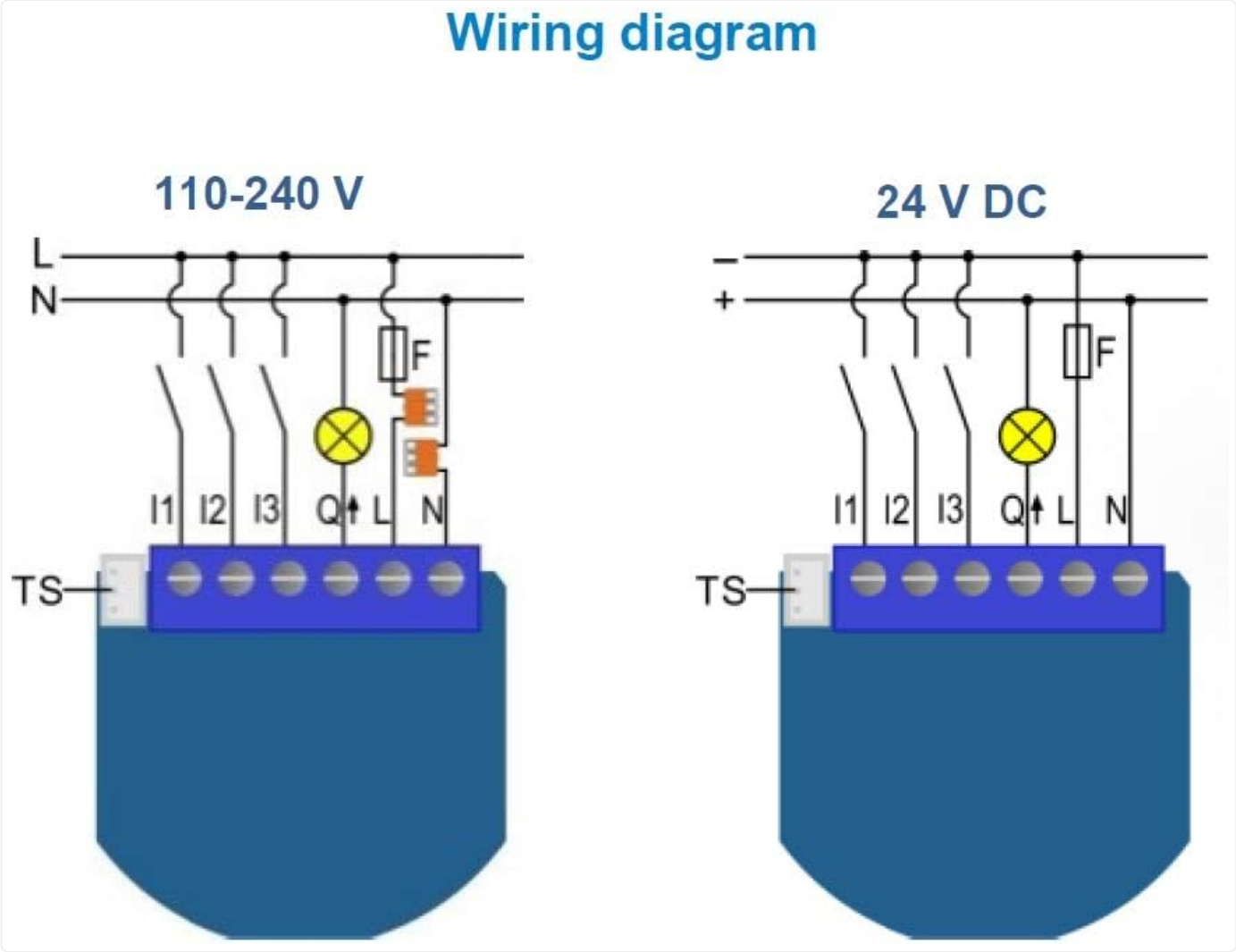

Figure 5.1: A smartphone displaying a smart home application interface, showing controls for a light and real-time power consumption data (85W, 0.085kWh). This illustrates how the Qubino module's functions can be accessed and monitored.

5.1 Remote Control

Use your Z-Wave gateway's mobile app or web interface to turn the connected load ON or OFF. The status of the load will be reflected in the app.

5.2 Energy Monitoring

The module provides real-time energy consumption data. This data can be viewed within your Z-Wave gateway's interface, allowing you to track power usage (in Watts) and accumulated energy consumption (in kWh) of the connected appliance.

5.3 Manual Control (if wired)

If a physical switch is connected to the module's input (I1 or I2), you can manually toggle the connected load ON/OFF using that switch.

6. Maintenance

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check your Z-Wave gateway's manufacturer for potential firmware updates for the Qubino ZMNHAD3 module. Follow their instructions for any update procedures.
- **Regular Checks:** Ensure all wiring connections remain secure.

7. Troubleshooting

Problem	Possible Cause	Solution
Device not responding to Z-Wave commands.	Not properly included in the Z-Wave network. Out of Z-Wave range. Power supply issue.	Perform exclusion, then re-inclusion. Move the gateway closer or add Z-Wave repeaters. Check wiring and power supply.
Energy monitoring data is inaccurate or missing.	Incorrect wiring. Device not fully supported by gateway for energy reporting.	Verify wiring according to diagrams. Check gateway's compatibility list and device handler settings.
Module gets warm during operation.	Normal operation (slight warmth). Overload.	This is normal for electronic devices. Ensure connected load does not exceed maximum ratings. Disconnect if excessively hot.

8. Specifications

Parameter	Value
Model Number	ZMNHAD3
Technology	Z-Wave Plus
Power Supply	110-240V AC or 24-30V DC
Max. Load (Resistive)	10A (2400W at 240V AC)
Operating Temperature	10°C to 40°C (14°F to 104°F)
Dimensions (L x W x H)	Approx. 2.99 x 2.01 x 0.79 inches (76 x 51 x 20 mm)
Weight	Approx. 0.81 ounces (23 g)
Frequency	908.42 MHz (US/Canada)

9. Warranty and Support

For warranty information and technical support, please refer to the official Qubino website or contact your local distributor. Keep your proof of purchase for warranty claims.

Qubino Official Website: https://qubino.com

Related Documents - ZMNHAD3

	Qubino Flush 1 Relay PLUS User Manual and Technical Specifications Comprehensive user manual for the Qubino Flush 1 Relay PLUS Z-Wave module, covering installation, configuration, technical specifications, and Z-Wave integration for smart home automation.
	Qubino Flush 1 Relay User Manual: Smart Home Control Comprehensive user manual for the Qubino Flush 1 Relay, detailing installation, features, and Z-Wave integration for smart home automation. Control lights, appliances, and monitor power consumption.
	Qubino Flush 2 Relay User Manual Comprehensive user manual for the Qubino Flush 2 Relay, detailing installation, features, technical specifications, and Z-Wave compatibility for smart home automation.
	Qubino Flush 2 Relays PLUS User Manual User manual for the Qubino Flush 2 Relays PLUS, a compact Z-Wave module for controlling two electrical devices, measuring power consumption, and supporting temperature sensors. Includes installation, configuration, and technical specifications.
	Qubino Smart Home Devices Catalogue Comprehensive catalogue of Qubino smart home devices, including smart switches, dimmers, relays, shutters, meters, thermostats, leak protectors, and accessories, featuring Z-Wave technology for seamless home automation.

[Qubino Flush 1D Relay User Manual - Smart Home Automation]

Comprehensive user manual for the Qubino Flush 1D Relay, detailing installation, features, Z-Wave integration, and smart home applications for remote control of electrical devices.