

Shelly Wave Pro 1PM

Shelly Qubino Wave Pro 1PM Z-Wave Smart Switch User Manual

Model: Wave Pro 1PM

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1. PRODUCT OVERVIEW

The Shelly Qubino Wave Pro 1PM is a professional 1-channel Z-Wave smart switch designed for DIN rail mounting. It supports loads up to 16 A and features an integrated power consumption meter, making it ideal for automating lighting or other appliances in various environments, from residential to industrial settings. This device integrates seamlessly into your Z-Wave network, offering advanced control and energy monitoring capabilities.

Key Features:

- **1 Channel, 16 A Output:** Controls a single electrical circuit with a maximum current of 16 Amperes.
- **Integrated Power Meter:** Provides real-time energy consumption data to help optimize operational costs.
- **DIN Rail Mount:** Designed for easy installation directly into electrical panels.
- **Z-Wave 800 Series Technology:** Utilizes the latest Z-Wave standard for enhanced compatibility and performance.
- **Low Power Consumption:** Operates with extremely low power usage, less than 0.3 W.
- **Enhanced Security:** Features Security 2 (AES128 encryption) and 2-factor authentication (2FA) for optimal network protection.
- **SmartStart & OTA Updates:** Supports automatic configuration and over-the-air firmware updates.
- **Broad Compatibility:** Works with certified Z-Wave gateways and over 4,000 Z-Wave devices.



Image 1.1: The Shelly Qubino Wave Pro 1PM Z-Wave Smart Switch.

2. SAFETY INFORMATION

Please read this entire guide carefully before beginning installation or use. Failure to follow these instructions may lead to malfunction, fire, or other hazards. Keep this manual for future reference.

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations. Always disconnect power before installation or maintenance.
- **Operating Environment:** Do not expose the device to direct sunlight, high humidity, or extreme temperatures. Ensure proper ventilation.
- **Load Capacity:** Do not exceed the maximum load of 16 A. Overloading can cause damage to the device and create fire hazards.
- **Z-Wave Gateway:** A Z-Wave gateway (smart hub) is required for remote control and full functionality of the device. This gateway is not included.
- **Protection Features:** The device includes built-in protection against overheating, overcurrents, overvoltages, and overpowers. It is also flame retardant (V-0).

Sécurité améliorée

- Protection contre la surchauffe.
- Protection contre les surcharges.
- Protection contre les surtensions.
- Flame Retardant (V-0).



Image 2.1: Enhanced security features of the Shelly Wave Pro 1PM, including protection against overheating, overloads, overvoltages, and flame retardant properties.

3. SETUP AND INSTALLATION

3.1. Physical Installation (DIN Rail Mounting)

The Shelly Wave Pro 1PM is designed for mounting on a standard DIN rail within an electrical panel. Ensure the panel is de-energized before proceeding.

1. **Power Disconnection:** Turn off the main power supply to the electrical panel. Verify with a voltage tester that no power is present.
2. **Mounting:** Clip the Shelly Wave Pro 1PM onto the DIN rail.
3. **Wiring:** Connect the device according to the wiring diagram provided in the product documentation. Ensure all connections are secure. The device features screw-type connectors.

Fonctionnalités

- 1 sortie, 16A.
- Contacts secs.
- Faible consommation d'énergie : <math><0.3\text{ W}</math>.
- Montage sur rail DIN.



Image 3.1: Shelly Wave Pro 1PM showing wiring connections and key features.

Taille idéale

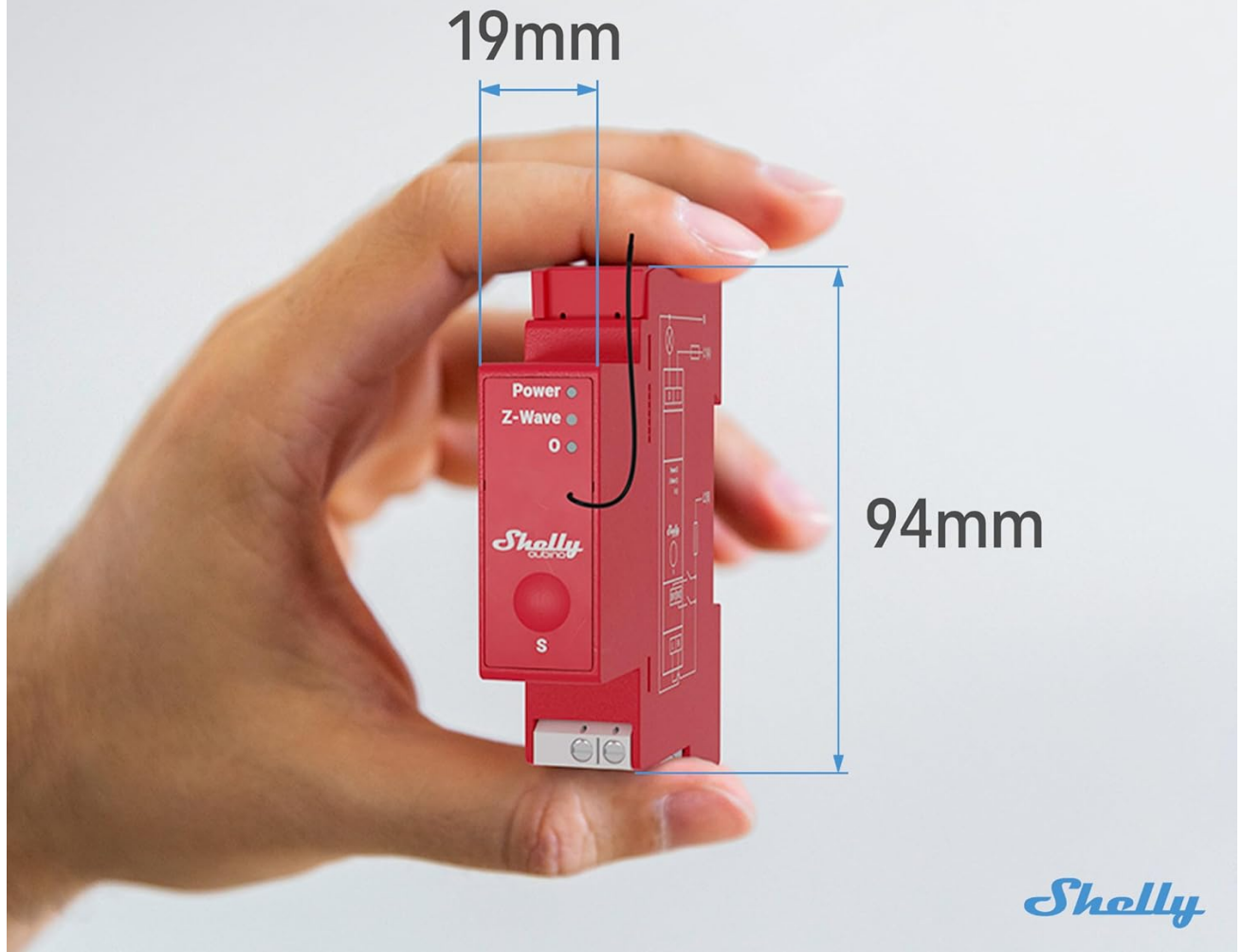


Image 3.2: Physical dimensions of the Shelly Wave Pro 1PM (19mm width, 94mm height).

3.2. Z-Wave Network Inclusion

To integrate the Shelly Wave Pro 1PM into your smart home system, a Z-Wave gateway (hub) is required. Follow the instructions for your specific Z-Wave gateway to add new devices.

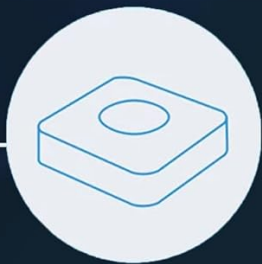
- **SmartStart:** The device supports automatic configuration with SmartStart for easy inclusion.
- **Manual Inclusion:** If SmartStart is not used, follow your gateway's manual inclusion process, which typically involves putting the gateway into inclusion mode and then activating the device's inclusion mode (refer to the device's specific button press sequence if applicable).
- **Security 2 (AES128):** The device uses Security 2 encryption for secure communication within your Z-Wave network.
- **2-Factor Authentication (2FA):** For optimal security, the device supports 2FA during setup.

Un réseau **Z - Wave**

- La dernière technologie : Z-Wave 800 Series.
- Bande de fréquence Z-Wave : 868.4 MHz (pays de la CEPT).
- Compatible avec plus de 4000 dispositifs et passerelles Z-Wave.



Dispositif Z-Wave



Passerelle Z-Wave



Routeur



Smartphone

Shelly

Image 3.3: Diagram of a Z-Wave network, showing the Shelly Wave Pro 1PM connecting to a Z-Wave gateway, router, and smartphone.

4. OPERATING INSTRUCTIONS

4.1. Basic Control

Once successfully included in your Z-Wave network, the Shelly Wave Pro 1PM can be controlled via your Z-Wave gateway's interface or the Shelly Smart Control app (requires a Z-Wave gateway).

- **ON/OFF Switching:** Use the connected Z-Wave controller or app to turn the connected load ON or OFF.
- **Automation:** Set up schedules, scenes, and automations through your Z-Wave gateway to control lighting or appliances dynamically.

4.2. Energy Monitoring

The integrated power meter provides real-time energy consumption data, which can be accessed through your Z-Wave gateway's interface or the Shelly Smart Control app.

- **Real-time Data:** Monitor current power usage of the connected circuit.
- **Historical Data:** Track energy consumption over time to identify trends and optimize usage.
- **Cost Optimization:** Use consumption data to make informed decisions about energy usage and reduce operational costs.



Contrôle et monitoring d'énergie

- Automatisez les appareils dans votre restaurant pour une meilleure gestion de l'énergie. Serez notifié pour tout usage hors les heures de travail, programmez une coupure la nuit et branchez à l'ouverture.

Shelly

Image 4.1: Example of Shelly Wave Pro 1PM used for energy control and monitoring in a commercial setting, with text about automating devices and receiving notifications.

4.3. Preventive Management

The device can assist in preventive management by alerting you to unusual power consumption patterns.

- **Anomaly Detection:** If a connected electrical appliance is damaged or malfunctioning, the Shelly Wave Pro 1PM can detect an increase in consumption and alert you.
- **Notifications:** Configure your Z-Wave gateway to send notifications for abnormal usage, helping to limit unnecessary expenses and prevent potential issues.

Management préventif

- Lorsqu'un appareil électrique est endommagé, Shelly Wave Pro 1PM vous avertirait d'une hausse de la consommation pour limiter les dépenses superflues.



Image 4.2: Shelly Wave Pro 1PM demonstrating preventive management, alerting users to increased consumption from a damaged electrical appliance.

5. MAINTENANCE

The Shelly Wave Pro 1PM requires minimal maintenance.

- **Cleaning:** Ensure the device is clean and free from dust. Disconnect power before cleaning. Use a dry, soft cloth.
- **Firmware Updates:** The device supports Over-The-Air (OTA) firmware updates. Regularly check for and apply updates through your Z-Wave gateway or the Shelly Smart Control app to ensure optimal performance and security.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prolong the device's lifespan.

6. TROUBLESHOOTING

If you encounter issues with your Shelly Wave Pro 1PM, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Device not responding/connecting to Z-Wave network.	Device not properly included; Z-Wave gateway out of range; network interference.	Ensure Z-Wave gateway is in inclusion mode. Perform a factory reset on the device and try re-inclusion. Check distance to gateway.
Device frequently goes into safety mode (e.g., due to overheating).	Continuous high load; insufficient ventilation; ambient temperature too high.	Reduce the connected load if it's consistently near the maximum. Ensure adequate airflow around the device in the electrical panel. Check ambient temperature.
Inaccurate power consumption readings.	Incorrect wiring; device malfunction.	Verify wiring according to the diagram. If the issue persists, contact support.
Device cannot be controlled remotely.	No Z-Wave gateway connected; internet connectivity issues (for app control).	Ensure a Z-Wave gateway is properly set up and connected. Check your internet connection if using the Shelly Smart Control app.

For more complex issues, please refer to the support section or contact technical assistance.

7. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Shelly
Model	Wave Pro 1PM
Current Rating	16 A
Maximum Switching Current	16 A
Power	3840 Watts
Minimum Switching Voltage	110 Volts (AC)
Maximum Switching Voltage	240 Volts (AC)
Operating Mode	ON-OFF
Mounting Type	DIN Rail Mount
Connector Type	Screw
Contact Material	Silver
Contact Type	Normally Open

Specification	Value
Number of Terminals	2
Upper Rated Temperature	40 Degrees Celsius
Compliant Specification	RoHS
Item Weight	63 Grams
Included Components	Shelly Qubino Wave Pro 1PM (x1)
Manufacturer Part Number	910
International Article Code	03800235269107

8. WARRANTY AND SUPPORT

8.1. Warranty Information

Shelly products typically come with a 3 to 5-year warranty. Please refer to your purchase documentation or the official Shelly website for specific warranty terms and conditions applicable to your region.

8.2. Technical Support

For technical assistance, product guides, and tutorials, please visit the official Shelly support portal:

[Shelly Support Portal](#)

You can also find support through:

- Knowledge base with product guides and tutorials.
- European network of certified installers.
- Facebook support groups for community assistance.



Image 8.1: Scan for support and access Shelly's knowledge base, warranty information, and community resources.

