

**Shelly Qubino
Wave PM Mini
Qubino Wave
Shutter**



Shelly Qubino Wave PM Mini Qubino Wave Shutter User Guide

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Shelly Qubino Wave PM Mini Qubino Wave Shutter



Product Usage Instructions

• Installation Instructions

- The Wave PM Mini can be retrofitted into standard electrical wall boxes, behind power sockets, or in other places with limited space.
- Refer to the wiring scheme (Fig. 1) in the user guide for detailed installation instructions.

• Extended User Guide

- For more detailed installation instructions, use cases, and comprehensive guidance on adding/removing the device, refer to the extended user guide at [Wave PM Mini Extended User Guide](#)

FAQs

• Q: What is the maximum power consumption supported by the Wave PM Mini?

- **A:** The Wave PM Mini supports a maximum power consumption of 3840 W at 240 V AC.

• Q: What types of loads are supported by the Wave PM Mini?

- **A:** The Wave PM Mini supports resistive, capacitive, and inductive loads. Examples include incandescent bulbs, heating devices, capacitor banks, electronic equipment, motor start capacitors, LED light drivers, transformers, fans, refrigerators, and air-conditioners.

• Q: Is the Wave PM Mini equipped with overheating protection?

- **A:** Yes, the Wave PM Mini is equipped with overheating protection.

LEGEND

• Device terminals:

- **N:** Neutral terminal
- **L:** Live terminal (110–240 V AC)
- **O:** Load circuit output terminals (bridged internally)

• Wires:

- **N:** Neutral wire
- **L:** Live wire (110-240 V AC)

• Button:

- **S:** S button (Fig. 2)

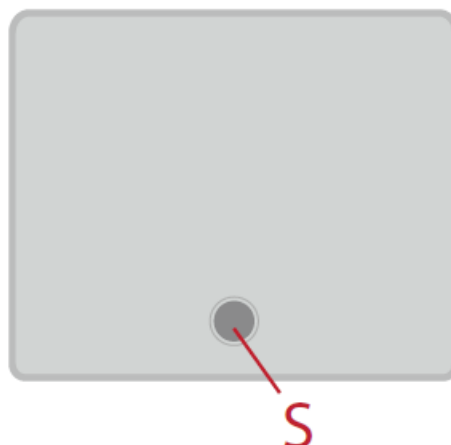


Fig.2/
Abb.2/
Imagen 2/
Image 2

USER AND SAFETY GUIDE

Z-Wave® smart power meter READ BEFORE USE

This document contains important technical and safety information about the Device, its safe use, and installation.

CAUTION! Before beginning the installation, please read carefully and entirely this guide carefully and any other documents accompanying the Device. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of law or refusal of legal and/or commercial guarantee (if any). Shelly Europe Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure to follow the user and safety instructions in this guide.

TERMINOLOGY

- **Gateway** – A Z-Wave® gateway, also referred to as a Z-Wave® controller, Z-Wave® main controller, Z-Wave® primary controller, or Z-Wave® hub, etc., is a device that serves as a central hub for a Z-Wave® smart home network. The term “gateway” is used in this document.
- **S button** – The Z-Wave® Service button, which is located on Z-Wave® devices and is used for various functions such as inclusion (adding), exclusion (removing), and resetting the device to its factory default settings. The term “S button” is used in this document.
- **Device** – In this document, the term “Device” is used to refer to the Shelly Qubino device that is a subject of this guide.

ABOUT SHELLY QUBINO

- Shelly Qubino is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits with a smartphone, tablet, PC, or home automation system.
- They work on Z-Wave® wireless communication protocol, using a gateway, which is required for the configuration of devices. When the gateway is connected to the internet, you can control Shelly Qubino devices remotely from anywhere.
- Shelly Qubino devices can be operated in any Z-Wave® network with other Z-Wave® certified devices from other manufacturers.
- All mains-operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network. Devices are designed to work with older generations of Z-Wave® devices and gateways.

ABOUT THE DEVICE

- The Device is a small form factor smart power meter, which allows remote monitoring of electric appliances' power consumption with a load of up to 16 A.

INSTALLATION INSTRUCTIONS

The Device can be retrofitted into standard electrical wall boxes, behind power sockets, or other places with limited space.

For the installation instructions, refer to the wiring scheme (Fig. 1) in this user guide.

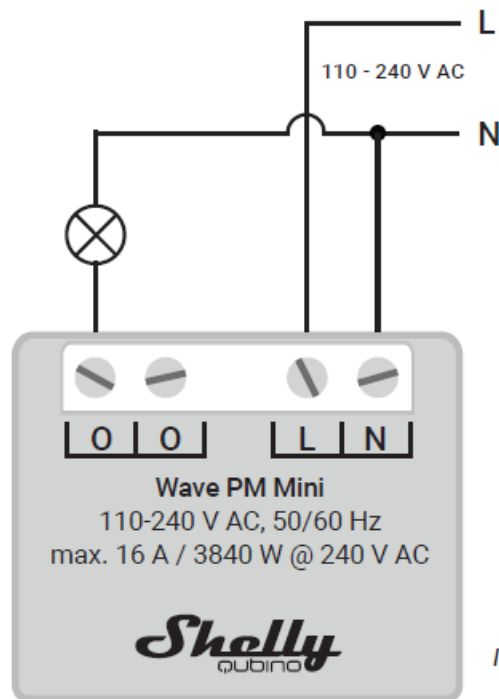


Fig.1/
Abb.1/
Imagen 1/
Image 1

- **⚠CAUTION!** Danger of electrocution. Mounting/installation of the Device to the power grid has to be performed with caution, by a qualified electrician.
- **⚠CAUTION!** Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the Device terminals.
- **⚠CAUTION!** Do not open the Device. It does not contain any parts that can be maintained by the user. For safety and licensing reasons, unauthorized change and/or modification of the Device is not permitted.
- **⚠CAUTION!** Use the Device only with a power grid and appliances that comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device may damage it.
- **⚠CAUTION!** No SELV/PELV circuits may be connected to the terminals of the inputs and outputs, including the extension inputs.
- **⚠CAUTION!** Do not connect the Device to appliances exceeding the given max. load!
- **⚠CAUTION!** Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.
- **⚠CAUTION!** Do not install the Device where it can get wet.
- **⚠CAUTION!** Do not use the Device if it has been damaged!
- **⚠CAUTION!** Do not attempt to service or repair the Device yourself!
- **⚠CAUTION!** Before starting the mounting/installation of the Device, check that the breakers are turned off and there is no voltage on their terminals. This can be done with a mains voltage tester or multimeter. When you are sure that there is no voltage, you can proceed to connect the wires.
- **⚠CAUTION!** Do not shorten the antenna.
- **⚠RECOMMENDATION:** Place the antenna as far away as possible from metal elements as they can cause signal interference.
- **⚠CAUTION!** The load current circuit has to be secured by a cable protection switch under EN60898-1 (tripping characteristic B or C, max. 16 A rated current, min. 6 kA interrupting rating, energy limiting class 3).
- **⚠RECOMMENDATION:** Connect the Device using solid single-core cables or stranded cables with ferrules. The cables should have insulation with increased heat resistance, not less than PVC T105°C (221°F).

- **⚠CAUTION!** Do not allow children to play with the push-buttons/switches connected to the Device. Keep the devices for remote control of Shelly Qubino (mobile phones, tablets, PCs) away from children.

EXTENDED USER GUIDE

For more detailed installation instructions, use cases, and comprehensive guidance on adding/removing the Device to/from a Z-Wave® network, factory reset, LED signalization, Z-Wave® command classes, parameters, and much more, refer to the extended user guide at: <https://shelly.link/WavePMMini-KB>.



SPECIFICATIONS

- **Power supply** 110-240 V ~ 50/60 Hz
- **Power consumption** < 0.3 W
- **Power measurement (W)** Yes
- **External protection** 16 A, tripping characteristic B or C, 6 kA interrupting rating,
- **Energy limiting class** 3
- **Max. measurement power** 3840 W
- **Max. measurement current** 16 A
- **Overheating protection** Yes
- **Distance** Up to 40 m indoors (131 ft.) (depends on local conditions)
- **Z-Wave® repeater** Yes
- **CPU** Z-Wave® S800
- **Z-Wave® frequency bands** 868,4 MHz
- **Maximum radio frequency power transmitted in the frequency band(s)** < 25 mW
- **Size (H x W x D)** 29 x 35 x 16 ±0.5 mm / 1.11 x 1.35 x 0.63 ± 0.02 in
- **Weight** 13 ±1 g / 0.46 ±0.04 oz
- **Mounting** Wall box
- **Screw terminals max. torque** 0.4 Nm / 3.54 lb
- **Conductor cross-section** 0.5 to 1.5 mm² / 20 to 16 AWG
- **Conductor stripped length** 5 to 6 mm / 0.20 to 0.24 in
- **Shell material** Plastic
- **Color** Light grey
- **Ambient temperature** -20°C to 40°C / -5°F to 105°F
- **Humidity** 30% to 70% RH
- **Max. altitude** 2000 m / 6562 ft.

SUPPORTED LOAD TYPES

- Resistive (incandescent bulbs, heating devices)
- Capacitive (capacitor banks, electronic equipment, motor start capacitors)
- Inductive with RC Snubber (LED light drivers, transformers, fans, refrigerators, air-conditioners)

IMPORTANT DISCLAIMER

- Z-Wave® wireless communication may not always be 100% reliable. This Device should not be used in situations in which life and/or valuables are solely dependent on its functioning.
- If the Device is not recognized by your gateway or appears incorrectly, you may need to change the Device type manually and ensure that your gateway supports Z-Wave Plus® multi-channel devices.

ORDERING CODE: QMEM-0A1PC16EU

DECLARATION OF CONFORMITY

- Hereby, Shelly Europe Ltd. declares that the radio equipment type Wave PM Mini complies with Directive 2014/53/ EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: <https://shelly.link/WavePMMini-DoC>.

MANUFACTURER

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Documents / Resources



[Shelly Qubino Wave PM Mini Qubino Wave Shutter](#) [pdf] User Guide
QMEM-0A1PC16EU, B1524, Wave PM Mini Qubino Wave Shutter, Wave PM Mini, Qubino Wave Shutter, Wave Shutter, Shutter

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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