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Shelly B2511 Wave 2PM



About the Device

- The Shelly Wave 2 PM is a product that allows remote control of two electrical devices, such as bulbs, ceiling fans, and IR heaters.
- It can switch on/off two independent loads and measure their power consumption separately and in total. The device is compatible with both switches and push buttons.

Safety Information

- Ensure screw terminals are not accessible after installation to avoid electric shock.
- Service button operation should be managed by a professional installer.

Installation Instructions

- Turn off breakers and ensure no voltage is present before starting the installation.
- Connect wires according to the provided instructions.
- Use the same power supply for the load circuits and the device.
- Dispose of the Shelly Wave 2 PM separately from general household waste when it is no longer usable to promote recycling and avoid environmental damage.

LEGEND

Device terminals:

- **N:** Neutral terminal
- **L:** Live terminals (120 V AC)
- **O1:** Load circuit 1 output terminal
- **O2:** Load circuit 2 output terminal
- **SW1:** Switch/push-button input terminal (controlling O1)
- **SW2:** Switch/push-button input terminal (controlling O2)
- **S:** S button

Wires:

- **N:** Neutral wire
- **L:** Live wire (120 V AC)

Overview

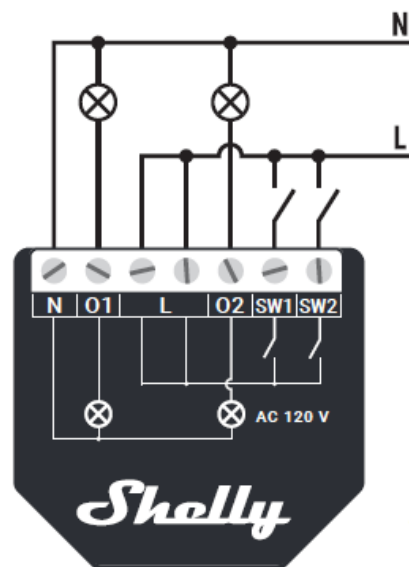


Fig. 1

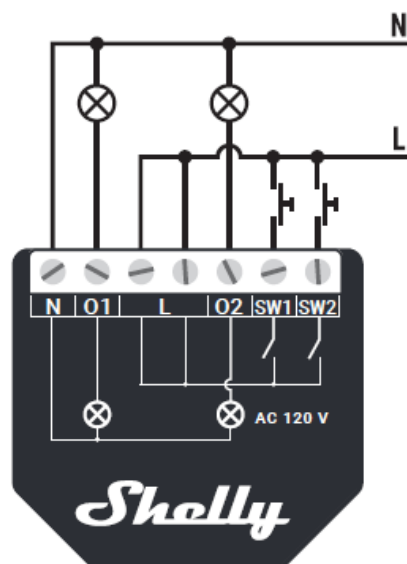


Fig. 2

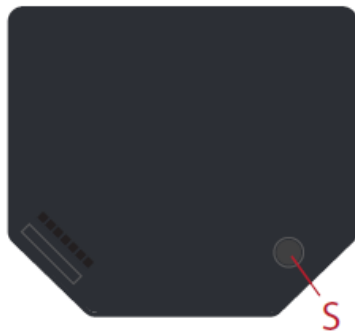


Fig. 3

USER AND SAFETY GUIDE

- 2-circuit Z-Wave® smart switch with power measurement

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 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 the 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.

ABOUT THE DEVICE

The Device is a single product that enables remote control of two electrical devices, such as bulbs, ceiling fans, and IR heaters. It switches (on/off) two independent loads (7 A per channel, 14 A total) and measures their power consumption separately and in total. The Device is compatible with switches (default) and push buttons.

- **WARNING!** Risk of electric shock. Make sure that after installing the device, its screw terminals are not accessible to users!
- **WARNING!** The operation of the service button must be managed by a professional installer. Risk of electric shock.

- **CAUTION!** Danger of electrocution. Mounting/ installation of the Device to the power grid has to be performed with caution, by a qualified electrician.
- **WARNING!** Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the Device terminals.
- **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!** Do not connect the Device to appliances exceeding the given max load!
- **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!** 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!
- **RECOMMENDATION:** Connect the Device using solid single-core wires with increased insulation heat resistance not less than PVC T105°C (221°F).
- **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 phase tester or multimeter.
- When you are sure that there is no voltage, you can proceed to connect the wires.
- **CAUTION!** Use the same power supply for the two load circuits and the Device.
- **RECOMMENDATION:** For inductive appliances that cause voltage spikes during switching on/off, such as electrical motors, fans, vacuum cleaners, and similar ones, RC snubber (0.1 μ F / 100 Ω / 1/2 W / 600 VAC) should be connected in parallel to the appliance.
- **CAUTION!** Do not allow children to play with the push-buttons/ switches connected to the Device.
- Keep the devices for remote control of Shelly Wave (mobile phones, tablets, PCs) away from children.

TECHNICAL SPECIFICATIONS

- Power supply: 120 V AC, 50/60 Hz
- Power consumption: < 0,3 W
- Power measurement (W): Yes
- Max.. switching voltage AC: 120 V
- Max. switching current AC: 7 A per channel, 14 A total
- Max.. power per channel: 1/3 hp
- Overheating protection: Yes
- Overcurrent protection: Yes
- Wireless protocol: Z-Wave
- CPU: S800
- Z-Wave® Mesh distance: Up to 40 m indoors (131 ft.) (depends on local conditions)
- Z-Wave® Mesh frequency band: 908.4 MHz
- Z-Wave® Long range distance: Up to 80 m indoors (262 ft.) or up to 1000 m outdoors (3281 ft.)
- Z-Wave® Long range frequency band: 912 MHz
- Z-Wave® repeater: No (Long Range), Yes (Mesh)
- Size (H x W x D): 37 x 42 x 16 ± 0.5 mm / 1.46 x 1.65 x 0.63 ± 0.02 in
- Weight: 29 g / 1.02 in
- Purpose of control: Operating
- Mounting: Flush mounting
- Construction of a control independently mounted
- Screw terminals max. torque 0.25 Nm / 2.2 lbin
- Conductor cross section 1.0 to 2.5 mm² / 16 to 14 AWG
- Conductor stripped length 5 to 6 mm / 0.20 to 0.24 in
- Shell material Plastic
- Color Black
- Type of action: Type 1. B
- Overvoltage category III
- Pollution degree 2
- Impulse voltage 2500 V
- Ambient temperature -20°C to 40°C / -5°F to 105°F
- Humidity 30% to 70% RH
- Max altitude 2000 m / 6562 ft

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 and Z-Wave® Long Range capability in case of Long Range devices.

DISPOSAL & RECYCLING

This refers to the waste of electrical and electronic equipment. It is applicable in the US and other countries to collect waste separately.

This symbol on the product or in the accompanying literature indicates that the product should not be disposed of in the daily waste. Shelly Wave 2 PM must be recycled to avoid possible damage to the environment or human health from uncontrolled waste disposal and to promote the reuse of materials and resources. It is your responsibility to dispose of the device separately from general household waste when it is no longer usable.



FCC STATEMENT

This device complies with Part 15 of the FCC Rules.

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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification or change to this equipment. Such modifications or changes could void the user's authority to operate the equipment. This equipment has been

tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

The device has been evaluated to meet the general RF exposure requirement. The device can be used in portable exposure conditions without restriction.

- ORDERING CODE: QLSW-002P14US FCC ID: 2BDC6-WAVE2PMSHUT
- MANUFACTURER:
- Shelly Europe Ltd.
- Address: Shelly Europe Ltd, 51 Cherni Vrah Blvd., building 3, floors 2 and 3, Lozenetz Region, Sofia 1407, Republic of Bulgaria
- Tel.: +359 2 988 7435
- E-mail: zwave-shelly@shelly.cloud
- Support: <https://support.shelly.cloud/>
- Web: <https://www.shelly.com>
- Changes in the contact data are published by the Manufacturer on the official Website: <https://www.shelly.com>

For more detailed installation instructions


- https://shelly.link/ShellyWave2PMUS_LR-KB



FAQ

- **Q: What should I do if the device gets wet?**
 - **A:** Do not install the device where it can get wet. If it does get wet, do not use it and contact customer support for assistance.

Documents / Resources

	<p>Shelly B2511 Wave 2PM [pdf] User Guide</p> <p>B2511, B2511 Wave 2PM, B2511, Wave 2PM</p>
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References

- [User Manual](#)

 B2511, B2511 Wave 2PM, Shelly, Wave

 Shelly 2PM

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