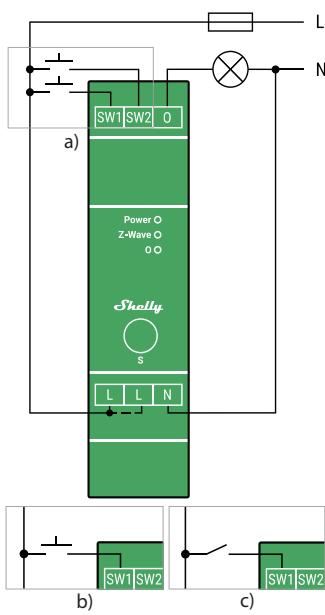




Shelly

Shelly Wave Pro Dimmer 1PM



USER AND SAFETY GUIDE

DIN-mountable Z-Wave® one-channel smart dimmer 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 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 of following 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 WAVE

Shelly Wave 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 Wave devices remotely from anywhere. Shelly Wave 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 reliability of the network. Devices are designed to work with older generations of Z-Wave® devices and gateways.

SHELLY WAVE PRO SERIES

Wave Pro series is a line of devices suitable for homes, offices, retail stores, manufacturing facilities, and other buildings. Pro devices are DIN-mountable inside the breaker box, and highly suitable for new building construction. All Wave Pro devices can be controlled and monitored through the Z-Wave® network.

ABOUT THE DEVICE

The Device is a DIN-rail mountable, one-channel smart dimmer. It can work as a standalone or it can also be operated through Z-Wave® home automation. The Device can be accessed, controlled, and monitored remotely from any place where the User has internet connectivity. It is compatible with switches and push-buttons (default).

INSTALLATION INSTRUCTIONS

The Device can be DIN-mounted inside the breaker box. For the installation instructions, refer to the wiring scheme (Fig. 1) in this user guide.

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! 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! Allow at least 10 mm of space around each Pro device if you expect currents higher than 5 A per channel.

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 connecting the wires.

CAUTION! The Device may be connected to and control only electric circuits and appliances that comply with the applicable standards and safety norms.

CAUTION! The Device is intended only for indoor use.

CAUTION! Keep the Device away from dirt and moisture.

CAUTION! Do Not Alter the Antenna (The antenna must not be shortened, lengthened, or modified in any way!)

CAUTION! Do Not Interfere with the Device (Any alteration or modification of the Device is prohibited).

CAUTION! Connect the Device only to 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 can cause fire, property damage, and electric shock.

CAUTION! The Device and the appliances connected to it, must be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 10A rated current, min. 6 kA interrupting rating, energy limiting class 3).

RECOMMENDATION: Place the antenna as far away as possible from metal elements as they can cause signal interference.

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).

RECOMMENDATION: When connecting wires to the Device terminals, consider the specified conductor cross section and stripped length. Do not connect multiple wires into a single terminal.

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.



Connect the load to the **O** terminal of the Device and the Neutral wire, as shown on Fig. 1.

Connect the **Live** wire to the Device **L** terminal, and the Neutral wire to the **N** terminal.

If you want to control the dimming with two push-buttons, connect push-buttons to the **SW1** and **SW2** terminals, and to the **Live** wire as shown in Fig. 1 a).

If you want to control the dimming with a single push-button, connect the push-button to the **SW1** terminal and to the **Live** wire as shown in Fig. 1 b).

If you want to just turn the light on or off, connect the switch to the **SW1** terminals and the **Live** wire as shown in Fig. 1 c).

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/WAVEProDimmer1PM-KB-ANZ>



SPECIFICATIONS

Power supply	110-240 V ~ 50/60 Hz
Power consumption	< 0.3 W
External protection	10 A, tripping characteristic B or C. 6 kA interrupting rating. Energy limiting class 3
Dimming type	Trailing edge
Max. output power	200 W
Overheating protection	Yes
Power measurement (W)	Yes
Overload protection	Yes
Oversupply protection	Yes
Distance	Up to 40 m indoors (131 ft.) (depends on local condition)
Z-Wave® repeater	Yes
CPU	Z-Wave® S800

Z-Wave® frequency bands	919.8 MHz
Maximum radio frequency power transmitted in frequency band(s)	< 25 mW
Size (H x W x D)	94x19x69 ± 0.5 mm / 3.70x0.75x2.71 ± 0.02 in
Weight	75 g / 2.65 oz.
Mounting	DIN rail
Screw terminals max. torque	0.4 Nm / 3.54 in-lb
Conductor cross section	0.5 to 2.5 mm² / 20 to 14 AWG (green connectors) 0.5 to 1.5 mm² / 20 to 16 AWG (white connectors)
Conductor stripped length	6 to 7 mm / 0.24 to 0.28 in (green connectors) 5 to 6 mm / 0.20 to 0.24 in (white connectors)
Shell material	Plastic
Color	Lime
Ambient temperature	-20°C to 40°C / -5°F to 105°F
Humidity	30% to 70% RH
Max. altitude	2000 m / 6562 ft.

OPERATIONAL INSTRUCTIONS

Single push-button dimming control

Push - Use to toggle On/Off - every push changes the state of the output.

Double Push - Sets brightness to 100%

Long Push - Use to dim up/down - every push changes the direction

SUPPORTED LOAD TYPES

- Dimmable LED lamps: up to 200 W
- Incandescent bulbs: up to 200 W
- Halogen lamps: up to 200 W
- Iron-core transformer with low-voltage incandescent lamps: up to 200 VA
- Dimmable electronic transformers: 200 W

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.

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MANUFACTURER

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