

EN

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 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 adding (inclusion), removing (exclusion), 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 Wave 2PM device.

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. 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 reliability of the network. Devices are designed to work with older generations of Z-Wave™ devices and gateways.

ABOUT THE WAVE 2PM

The Wave 2PM (electrical) is a single product that enables remote control of two electrical devices such as bulbs, ceiling fans, and heaters. It switches on/off two independent loads and measures their power consumption separately and in total. The Device is compatible with switches (default) and push-buttons.

ELECTRICAL DIAGRAM (110–240 V AC / 24 V DC)

Refer to the schematics (Fig.1-4) in this user guide.

INSTALLATION INSTRUCTIONS

The Device can control various types of loads (e.g. bulbs). Each circuit can support a load up to 10 A (with a total of 16 A for both circuits) and its power consumption is measured individually and in total (AC only).

It can be retrofitted into standard electrical wall boxes, behind power outlets and light switches or other places with limited space.

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! Do not shorten the antenna.

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

RECOMMENDATION: Connect the Device using 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 connecting the wires.

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.

If you want to use the Device with a push-button, refer to the Fig. 2 and Fig. 4. For a switch, refer to the Fig. 1 and Fig. 3.

CAUTION! Use only one phase AC circuit. Do not use mixed AC and DC circuits.

For AC circuits connect both L terminals to the Live wire and the N1 terminal to the Neutral wire. Connect the first load circuits to the O1 terminal and the Neutral wire. Connect the second load circuits to the O2 terminal and the Neutral wire. Connect the first switch/push-button to the SW1 terminal and the Live wire. Connect the second switch/push-button to the SW2 terminal and the Live wire.

For DC circuits connect both L terminals to the GND wire and the + terminal to the Positive wire. Connect the first load circuits to the O1 terminal and the Positive wire. Connect the second load circuits to the O2 terminal and the Positive wire. Connect the first switch/push-button to the SW1 terminal and the GND wire. Connect the second switch/push-button to the SW2 terminal and the GND wire.

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 µF / 100 Ω / 1/2 W / 600 V AC) should be connected 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 Qubino (mobile phones, tablets, PCs) away from children.

Z-WAVE™ ADDING/REMOVING (INCLUSION/EXCLUSION)

SmartStart adding (inclusion):

SmartStart enabled products can be added into a Z-Wave™ network by scanning the Z-Wave™ QR code present on the Device with a gateway providing SmartStart inclusion. No further action is required, and the SmartStart device will be added automatically within 10 minutes of being switched on in the network vicinity.

1. With the gateway application scan the QR code on the Device label and add the Security 2 (S2) Device Specific Key (DSK) to the provisioning list in the gateway.
2. Connect the Device to a power supply.
3. Enable add/remove mode on the gateway.
4. Toggle the switch/push-button connected to the SW1 or SW2 terminal 3 times within 3 seconds (this procedure puts the Device in LEARN MODE™). The Device must receive on/off signal 3 times, which means pressing the push-button 3 times, or toggling the switch on and off 3 times.
5. The blue LED will be blinking in Mode 2 during the adding process.
6. The loads connected to O1 and O2 will be blinking 1s on/1s off/1s on/1s off if the Device is successfully added to a Z-Wave™ network.
7. The green LED will be blinking in Mode 1 if the Device is successfully added to a Z-Wave™ network.

NOTE! In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

CAUTION! Do not use the Device in situations in which life and/or variables are solely dependent on its functioning. If the Device is not recognized by your gateway or appears insecure, you may need to change the Device type manually and ensure that your gateway supports Z-Wave Plus™ multi-level devices.

ORDERING CODE: QNSW-002P16XX
XX – Values define product version per region.

DECLARATION OF CONFORMITY

Hereby, Shelly Europe Ltd. (former Alterco Robotics EOOD) declares that the radio equipment type Wave 2PM is in compliance 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/Wave2PM-Doc>

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Address: 103 Cherni vrab Blvd., 1407 Sofia, Bulgaria
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Support: <https://support.shelly.cloud/>
Web: <https://www.shelly.com/>

Changes in the contact data are published by the Manufacturer at the official website: <https://www.shelly.com/>

FACTORY RESET

After Factory reset, all custom parameters and stored values (kWh, associations, routings, etc.) will return to their default state. HOME ID and NODE ID assigned to the Device will be deleted. Use this reset procedure only when the gateway is missing or otherwise inoperable.

Factory reset with a switch/push-button:
Note! In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

1. Connect the Device to a power supply.
2. Check if the green LED is blinking in Mode 1. If so, the Device is added to a Z-Wave™ network.
3. Enable add/remove mode on the gateway.
4. To enter the Setting mode, quickly press and hold the S button on the Device until the LED turns Solid blue.
5. Quickly release and then press and hold (> 2s) the S button on the Device until the blue LED starts blinking in Mode 3. Releasing the S button will start the LEARN MODE.
6. The blue LED will be blinking in Mode 2 during the removing process.
7. The loads connected to O1 and O2 will be blinking 1s on/1s off/1s on/1s off if the Device is successfully removed from a Z-Wave™ network.
8. The blue LED will be blinking in Mode 1 if the Device is successfully removed from a Z-Wave™ network.

Note! In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

NOTE! In case of Security 2 (S2) adding (inclusion), a dialog will appear asking you to confirm the corresponding PIN Code (5 underlined digits) that are written on the DSK label on the side of the Device and on the DSK label inserted in the packaging.

IMPORTANT!: The PIN Code must not be lost.

Removing (exclusion) with a switch/push-button:

1. Connect the Device to a power supply.
2. Check if the green LED is blinking in Mode 1. If so, the Device is added to a Z-Wave™ network.
3. Enable add/remove mode on the gateway.
4. Toggle the switch/push-button connected to the SW1 or SW2 terminal 3 times within 3 seconds (this procedure puts the Device in LEARN MODE™). The Device must receive on/off signal 3 times, which means pressing the push-button 3 times, or toggling the switch on and off 3 times.
5. The blue LED will be blinking in Mode 2 during the removing process.
6. The loads connected to O1 and O2 will be blinking 1s on/1s off/1s on/1s off if the Device is successfully removed from a Z-Wave™ network.
7. The blue LED will be blinking in Mode 1 if the Device is successfully removed from a Z-Wave™ network.

Removing (exclusion) with the S button:

1. Connect the Device to a power supply.
2. Check if the green LED is blinking in Mode 1. If so, the Device is added to a Z-Wave™ network.
3. Enable add/remove mode on the gateway.
4. To enter the Setting mode, quickly press and hold the S button on the Device until the LED turns Solid blue.
5. Quickly release and then press and hold (> 2s) the S button on the Device until the blue LED starts blinking in Mode 3. Releasing the S button will start the LEARN MODE.
6. The blue LED will be blinking in Mode 2 during the removing process.
7. The loads connected to O1 and O2 will be blinking 1s on/1s off/1s on/1s off if the Device is successfully removed from a Z-Wave™ network.
8. The blue LED will be blinking in Mode 1 if the Device is successfully removed from a Z-Wave™ network.

Note! In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

FACTORY RESET

After Factory reset, all custom parameters and stored values (kWh, associations, routings, etc.) will return to their default state. HOME ID and NODE ID assigned to the Device will be deleted. Use this reset procedure only when the gateway is missing or otherwise inoperable.

Factory reset with a switch/push-button:

Note! In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

1. Connect the Device to a power supply.
2. Toggle the switch/push-button connected to the SW1 or SW2 terminal 5 times within 3 seconds. The Device must receive on/off signal 5 times, which means pressing the push-button 5 times, or toggling the switch on and off 5 times.
3. During factory reset, the LED will turn solid green for about 1s, then the blue and red LED will start blinking in Mode 3 for approx. 2s.
4. The blue LED will be blinking in Mode 1 if the Factory reset is successful.

Factory reset with the S button:

Note! Factory reset with the S button is possible anytime.

1. To enter the Setting mode, quickly press and hold the S button on the Device until the LED turns Solid blue.
2. Press the S button multiple times until the LED turns Solid red.
3. Press and hold (> 2s) S button on the Device until the red LED starts blinking in Mode 3. Releasing the S button will start the factory reset.
4. During factory reset, the LED will turn solid green for about 1s, then the blue and red LED will start blinking in Mode 3 for approx. 2s.
5. The blue LED will be blinking in Mode 1 if the Factory reset is successful.

NOTE: For more information about this Device refer to the Extended User Guide available at: <https://kb.shelly.cloud/>

LED SIGNALIZATION

	LED blinking modes
Mode 1	0,5s On/2s Off
Mode 2	0,5s On/0,5s Off
Mode 3	0,1s On/0,1s Off
Mode 4	(1x to 6x - 0,2s On/0,2s Off) + 2s Off
Mode 5	0,2s On blue/0,2s On red

Normal mode	Colour	LED mode
Removed/Excluded	Blue	Mode 1
Added/Included	Green	Mode 1
Setting mode (with S button)		
Adding/Removing (Inclusion/Exclusion) menu selected	Blue	Solid
Adding/Removing (Inclusion/Exclusion) menu - while pressing S button - Adding/Removing (Inclusion/Exclusion) process selected	Blue	Mode 3

Factory reset menu selected	Red	Solid
Factory reset - while pressing S button - Factory reset process selected	Red	Mode 3
Setting in progress - mode		
Factory reset and reboot	Blue / Red / Green	**
Adding/Removing (Inclusion/Exclusion)	Blue	Mode 2
Checking power supply 230 V AC frequency or 24 V DC voltage	Blue / Red	Mode 5
OTA firmware updating	Blue / Red	Mode 2

Alarm mode		
Overcurrent detected O (01 + 02)	Red	Mode 4(1x)
Overheat detected	Red	Mode 4(2x)
Power supply fault (power supply 230 V AC frequency or 24 V DC voltage fault)	Red	Mode 4(3x)
Overcurrent detected O1	Red	Mode 4(4x)
Overcurrent detected O2	Red	Mode 4(5x)

** LED will turn solid green for about 1s, then the blue and red LED will start blinking in Mode 3 for approx. 2s.

LED will turn off 30 minutes after the power cycle. Every time you press on the S button, the LED will turn on for 30 minutes. If alarm is active, LED will not turn off.

OPERATIONAL INSTRUCTIONS

If the SW1 and SW2 are configured as a switch (default), toggle the switch will change the outputs O1 and O2 states to opposite states - on, off, on, etc.

If the SW1 and SW2 are configured as a push-button in the Device settings, each press of the push-button will change the outputs O1 and O2 states to opposite states - on, off, on, etc.

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)

SPECIFICATIONS

Power supply	110-240V AC / 24V DC +/- 10%
Power consumption	+0.3 W
Power measurement (W)	Yes
Max. switching voltage AC	240 V
Max. switching current AC	10 A per channel, 16 A total, 18 A total peak
Max. switching voltage DC	30 V
Max. switching current DC	10 A
Overheating protection	Yes
Overcurrent 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	868,4 MHz; 865,2 MHz; 869,0 MHz; 921,4 MHz; 908,4 MHz; 916 MHz; 919,8 MHz; 922,5 MHz; 919,2/921,9/923,7 MHz; 868,1 MHz; 920,9 MHz
Maximum radio frequency power transmitted in frequency band(s)	< 25 mW
Size (H x W x D)	37x42x16 ±0.5 mm / 1.46x1.65x0.63 ±0.02 in
Weight	29 g / 1.02 oz.

Mounting	Wall console
Screw terminals max. torque	0.4 Nm / 3.5 lb in
Conductor cross section	0.5 to 1.5 mm ² / 20 to 16 AWG
Conductor stripped length	5 to 6 mm / 0.20 to 0.24 in
Shell material	Plastic
Color	Black
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 variables are solely dependent on its functioning. If the Device is not recognized by your gateway or appears insecure, you may need to change the Device type manually and ensure that your gateway supports Z-Wave Plus™ multi-level devices.

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DE

Benutzer- und Sicherheitshandbuch

Smarter Z-Wave™-Switch mit 2-Kanal und Leistungsmessung

BITTE VOR GEBRAUCH DURCHLESEN

Dieses Dokument enthält wichtige technische und sicherheitsrelevante Informationen über das Gerät und seine sichere Verwendung.

ACHTUNG! Bevor Sie mit der Installation beginnen, lesen Sie bitte die Begleitdokumentation sorgfältig und vollständig durch. Die Nichtbeachtung der empfohlenen Verfahren kann zu Fehlfunktionen, Lebensgefahr oder Gesetzesverstößen führen. Shelly Europe Ltd. haftet nicht für Verluste oder Schäden im Falle einer falschen Installation oder Bedienung dieses Geräts.

Factory reset with a switch/push-button:
Note! In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

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NOTE: For more information about this Device refer to the Extended User Guide available at: <https://kb.shelly.cloud/>

CAUTION! Do not shorten the antenna.

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

RECOMMENDATION: Connect the Device using 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 connecting the wires.

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.

If you want to use the Device with a push-button, refer to the Fig. 2 and Fig. 4. For a switch, refer to the Fig. 1 and Fig. 3.

CAUTION! Use only one phase AC circuit. Do not use mixed AC and DC circuits.

For AC circuits connect both L terminals to the Live wire and the N1 terminal to the Neutral wire. Connect the first load circuits to the O1 terminal and the Neutral wire. Connect the second load circuits to the O2 terminal and the Neutral wire. Connect the first switch/push-button to the SW1 terminal and the Live wire. Connect the second switch/push-button to the SW2 terminal and the Live wire.

For DC circuits connect both L terminals to the GND wire and the + terminal to the Positive wire. Connect the first load circuits to the O1 terminal and the Positive wire. Connect the second load circuits to the O2 terminal and the Positive wire. Connect the first switch/push-button to the SW1 terminal and the GND wire. Connect the second switch/push-button to the SW2 terminal and the GND wire.

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 µF / 100 Ω / 1/2 W / 600 V AC) should be connected parallel to the appliance.

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Shelly

QUBINO

Wave 2PM

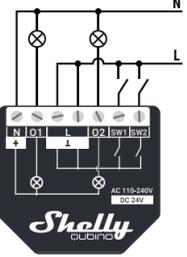


Fig.1/
Abb.1/
Imagen 1/
Image 1

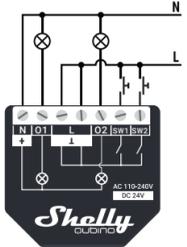


Fig.2/
Abb.2/
Imagen 2/
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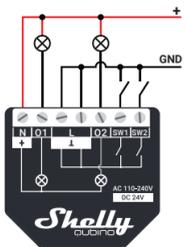


Fig.3/
Abb.3/
Imagen 3/
Image 3

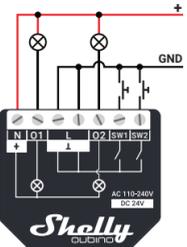


Fig.4/
Abb.4/
Imagen 4/
Image 4



Fig.5/
Abb.5/
Imagen 5/
Image 5

LEGENDA

Terminali del Dispositivo:

- N: Terminale neutro
 - L: Terminale sotto tensione (110-240 V CA)
 - O1: Terminale di uscita del circuito di carico 1
 - O2: Terminale di uscita del circuito di carico 2
 - SW1: Terminale di ingresso interruttore/pulsante (controllo O1)
 - SW2: Terminale di ingresso interruttore/pulsante (controllo O1)
 - + : Terminale positivo 24 V CC
 - : Terminale di terra 24 V CC
 - S: Pulsante S (Fig. 5)
- Fili:**
- N: Filo neutro
 - L: Filo sotto tensione (110-240 V CA)
 - + : Filo del positivo 24 V CC
 - : GND: Filo di terra 24 V CC

SP

LEVENDA

Terminali del Dispositivo:

- N: Terminale neutro
 - L: Terminale linea (110 - 240 V CA)
 - O1: Terminale di uscita del circuito 1
 - O2: Terminale di uscita del circuito 2
 - SW1: Terminale di entrata di interruttore/pulsador (Control de O1)
 - SW2: Terminale di entrata di interruttore/pulsador (Control de O2)
 - + : 24 V CC terminal positivo
 - : 24 V CC terminal di terra
 - S: Pulsante S (Imagen 5)
- Fili:**
- N: Filo neutro
 - L: Cable de fase (110 - 240 V CA)
 - + : 24 V CC cable positivo
 - : GND: 24 V CC cable de tierra

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LEGENDE

Bornes du Dispositif :

- N : Borne pour le Neutre
 - L : Borne pour la Phase (110-240 V CA)
 - O1: Borne de sortie du circuit de charge 1
 - O2: Borne de sortie du circuit de charge 2
 - SW1 : Borne d'entrée pour interrupteur/bouton-poussoir (contrôle O1)
 - SW2 : Borne d'entrée pour interrupteur/bouton-poussoir (contrôle O2)
 - + : Borne positive de 24 V CC
 - : Borne de terre 24 V CC
 - S: Le bouton S (Image 5)
- Fils :**
- N : Fil neutre
 - L : Fil phase (110 - 240 V CA)
 - + : Fil positif 24 V CC
 - : GND : Fil de terre de 24 V CC



RIPISTINO DI FABBRICA

Dopo il ripristino delle impostazioni di fabbrica, tutti i parametri personalizzati e i valori memorizzati (kWh, associazioni, instradamenti, etc.) torneranno allo stato predefinito. HOME ID e NODE ID assegnati al Dispositivo verranno eliminati. Utilizzare questa procedura di ripristino solo quando il gateway è mancante o altrimenti non funzionante.

Ripristino delle impostazioni di fabbrica con l'interruttore/pulsante:

- Notai il ripristino delle impostazioni di fabbrica con l'interruttore/pulsante è possibile solo entro il primo minuto dopo che il Dispositivo è stato collegato all'alimentazione.
- Collegare il Dispositivo a un'alimentazione.
- Azionare 5 volte l'interruttore/pulsante collegato al terminale SW1 o SW2 entro 3 secondi. Il Dispositivo deve ricevere il segnale di accensione/spegnimento 5 volte, il che significa premere il pulsante 5 volte o accendere e spegnere l'interruttore 5 volte.
- Durante il ripristino delle impostazioni di fabbrica, il LED diventerà verde fisso per circa 1 secondo, quindi i LED blu e rosso inizieranno a lampeggiare in modalità 3 per circa 2s.
- Il LED blu lampeggerà in modalità 1 se il ripristino delle impostazioni di fabbrica ha esito positivo.

Ripristino delle impostazioni di fabbrica con il pulsante S:

- Notai il reset di fabbrica con il pulsante S è possibile in qualsiasi momento.
- Per accedere alla modalità di impostazione, premere rapidamente e tenere premuto il pulsante S sul Dispositivo finché il LED non diventa blu fisso.
 - Premere più volte il pulsante S fino a quando il LED diventa rosso fisso.
 - Tenere premuto (> 2s) il pulsante S sul Dispositivo finché il LED rosso non inizia a lampeggiare in modalità 3. Il rilascio del pulsante S avvia il ripristino delle impostazioni di fabbrica.
 - Durante il ripristino delle impostazioni di fabbrica, il LED diventerà verde fisso per circa 1s, quindi i LED blu e rosso inizieranno a lampeggiare in modalità 3 per circa 2s.
 - Il LED blu lampeggerà in modalità 1 se il ripristino delle impostazioni di fabbrica ha esito positivo.

NOTA: per ulteriori informazioni su questo dispositivo, fare riferimento alla Guida utente estesa disponibile su: <https://kb.shelly.cloud/>

SEGNALAZIONE LED

Modalità di lampeggio del LED	
Modalità 1	0,5s On/2s Off
Modalità 2	0,5s On/0,5s Off
Modalità 3	0,1s On/0,1s Off
Modalità 4	(1x a 6x - 0,2s On/0,2s Off) + 2s Off
Modalità 5	0,2s On blu/0,2s On rosso

Modalità normale	Colore	Modalità LED
Rimosso/Escluso	Blu	Modalità 1
Aggiunto/Incluso	Verde	Modalità 1
Modalità di impostazione (con pulsante S)		
Menu aggiunta/rimozione (inclusione/esclusione) selezionato	Blu	Fisso
Menu aggiunta/rimozione (inclusione/esclusione) - mentre si preme il pulsante S - Processo di aggiunta/rimozione (inclusione/esclusione) selezionato	Blu	Modalità 3
Menu di ripristino delle impostazioni di fabbrica selezionato	Rosso	Fisso
Ripristino delle impostazioni di fabbrica - mentre si preme il pulsante S - Processo di ripristino delle impostazioni di fabbrica selezionato	Rosso	Modalità 3

Modalità "Impostazione in corso".		
Ripristino delle impostazioni di fabbrica e riavvio	B l u / Rosso/Verde	**
Aggiunta/Rimozione (Inclusione/Esclusione)	Blu	Modalità 2
Controllo dell'alimentazione Frequenza 230 V CA o tensione 24 V CC	B l u / Rosso	Modalità 5
Aggiornamento Firmware OTA	B l u / Rosso	Modalità 2

Modalità allarme		
Sovraccorrente rilevata O (O1 + O2)	Rosso	Modalità 4 (1x)
Surriscaldamento rilevato	Rosso	Modalità 4 (2x)
Guasto alimentazione (frequenza alimentazione 230 V CA o guasto tensione 24 V CC)	Rosso	Modalità 4 (3x)
Sovraccorrente rilevata O1	Rosso	Modalità 4 (4x)
Sovraccorrente rilevata O2	Rosso	Modalità 4 (5x)

** Il LED diventerà verde fisso per circa 1s, quindi i LED blu e rosso inizieranno a lampeggiare in modalità 3 per circa 2s.

Il LED si spegnerà 30 minuti dopo il ciclo di alimentazione. Ogni volta che si preme il pulsante S, il LED si accenderà per 30 minuti. Se l'allarme è attivo, il LED non si spegne.

ISTRUZIONI OPERATIVE

Si SW1 e SW2 sono configurati come interruttori (predefinito), ogni attivazione dell'interruttore cambierà lo stato delle uscite O1 e O2 negli stati opposti: on, off, on, ecc.

Se SW1 e SW2 sono configurati come pulsanti nella configurazione del Dispositivo, ogni pressione del pulsante cambierà lo stato delle uscite O1 e O2 negli stessi opposti: on, off, on, ecc.

TIPI DI CARICO SUPPORTATI

- Carico resistivo (lampadine a incandescenza, dispositivi di riscaldamento)
- Carico capacitivo (banchi di condensatori, apparecchiatura elettronica, condensatori di avviamento motore)
- Carico induttivo con RC Snubber (driver luci LED, trasformatori, ventole, frigoriferi, condizionatori d'aria)

Specifiche	
Alimentazione elettrica	110-240 V CA / 24 V CC +/- 10%
Consumo di energia	< 0.3 W
Misurazione della potenza (W)	SI
Massimo. tensione di commutazione CA	240 V
Massimo. corrente alternata di commutazione	10 A per canale, 16 A totali, 18 A al polo totale
Massimo. tensione di commutazione CC	30 V
Massimo. corrente di commutazione CC	10 A
Protezione da sovriscaldamento	SI
Protezione da sovraccorrente	SI
Distanza	fino a 40 m al chiuso (131 piedi) (dipende dalle condizioni locali)
Ripetitore Z-Wave™	SI
Processore	Z-Wave™ S800
Bandi di frequenza Z-Wave™	868,4 MHz; 865,2 MHz; 869,0 MHz; 921,4 MHz; 908,4 MHz; 916 MHz; 919,8 MHz; 922,5 MHz; 919,7-921,7-923,7 MHz; 868,1 MHz; 920,9 MHz
Potenza massima in radiofrequenza trasmessa nelle bande di frequenza	< 25 mW
Dimensioni (A x L x P)	37x42x16 ±0,5 mm / 1,46x1,65x0,63 ±0,02 in
Peso	29 g / 1,02 oz.
Montaggio	Quadro elettrico
Morsetti a vite max. coppia	0,4 Nm / 3,5 lbin
Sezione del conduttore	da 0,5 a 1,5 mm ² / da 20 a 16 AWG
lunghezza spelta del conduttore	da 5 a 6 mm / da 0,20 a 0,24 pollici
Materiale guscio	Plastica
Colore	Nero
Temperatura ambiente	-20°C a 40°C / da -5°F a 105°F
Umidità	Dal 30% al 70% RH
Massima altitudine	2000 m / 6562 ft.

AVVISO IMPORTANTE

La comunicazione wireless Z-Wave™ potrebbe non essere sempre affidabile al 100%. Questo Dispositivo non deve essere utilizzato in situazioni in cui la vita e/o gli oggetti di valore dipendono esclusivamente dai suoi funzionalità. Se il Dispositivo non viene riconosciuto dal gateway o viene visualizzato in modo errato, potrebbe essere necessario modificare manualmente il tipo di dispositivo e assicurarsi che il gateway supporti i dispositivi multivivello Z-Wave Plus™.

CODICE DI ORDINAZIONE: QNSW-002P16XX

XX - I valori definiscono la versione del prodotto per regione.

DICHIARAZIONE DI CONFORMITÀ

Con la presente, Shelly Europe Ltd. (ex Alterco Robotics EOOD) dichiara che il tipo di apparecchiatura radio Wave 2PM è conforme alla Direttiva 2014/53/UE, 2014/30/UE, 2014/30/UE, 2011/65/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo internet: <https://shelly.link/Wave2PM-Doc>

PRODUTTORE:

Shelly Europe Ltd.
Indirizzo: 103 Cheri vrah Blvd., 1407 Sofia, Bulgaria
Tel.: +359 2 988 7435
E-mail: zwave-shelly@shelly.cloud
Supporto: <https://support.shelly.cloud/>
Sito web ufficiale: <https://www.shelly.com>

Le modifiche ai dati di contatto sono pubblicate dal Produttore sul sito Web ufficiale: <https://www.shelly.com>

SP

MANUAL DE USO Y SEGURIDAD

Interrupor inteligente Z-Wave™ de 2 circuitos con función de medición de potencia

LEA ANTES DE UTILIZAR

Este documento contiene información técnica y de seguridad importante sobre el Dispositivo, su uso y su instalación segura.

⚠️ **ATENCIÓN:** Antes de utilizar el dispositivo, lea atentamente y por completo esta guía y cualquier otro documento que acompañe al Dispositivo. El incumplimiento de los procedimientos de instalación podría provocar un mal funcionamiento, peligro para su salud y su vida, violación de la ley o denegación de la garantía legal y/o comercial (o la hubiera). Shelly Europe Ltd. no se responsabiliza de ninguna pérdida o daño en caso de instalación incorrecta o funcionamiento inadecuado de este Dispositivo por no haber seguido las instrucciones de uso y seguridad de esta guía.

TERMINOLOGÍA

Gateway – Un gateway Z-Wave™ controlador doméstico Z-Wave™ también denominado controlador Z-Wave™, controlador principal Z-Wave™ o hub Z-Wave™. Shelly Europe Ltd. no se responsabiliza de control por una red de hogar inteligente Z-Wave™. Se utilizará el término "gateway" en este documento.

Botón S – El botón de servicio Z-Wave™, que se encuentra en los dispositivos Z-Wave™, se utiliza para diversas funciones como la inclusión (añadir), exclusión (eliminar) y el restablecimiento del dispositivo a su configuración predefinida de fábrica. El término "Botón S" se utiliza en este documento.

Dispositivo – En este documento, el término "Dispositivo" se utilizará para referirse al dispositivo Wave 2PM.

SOBRE SHELLY QUBINO

Shelly Qubino es una línea de dispositivos controlados por microprocesador, que permiten el control remoto de circuitos eléctricos desde un dispositivo móvil, tablet, ordenador o sistema doméstico. Funcionan bajo el protocolo de comunicación inalámbrica Z-Wave™ a través de un gateway. Cuando el gateway está conectado a internet puedes controlar los dispositivos Shelly Qubino desde remoto desde cualquier parte. Los dispositivos Shelly Qubino pueden ser utilizados en cualquier red Z-Wave™ con otros dispositivos certificados Z-Wave™ de otros fabricantes. Todos los nodos que estén operativos en la red funcionarán como repetidores sin importar su fabricante para mejorar la fiabilidad de la red. Los dispositivos están diseñados para funcionar con generaciones antiguas de dispositivos Z-Wave™ y gateways.

SOBRE WAVE 2PM

El Dispositivo Wave 2PM es un solo producto que permite el control remoto de dos dispositivos tales como bombillas, ventiladores y calefactores infrarrojos. Encendido o apagado dos cargas independientes y mide el consumo por separado y total. El Dispositivo es compatible con todo tipo de controladores y pulsadores.

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apagado/1s encendido/1s apagado si el Dispositivo se añadió correctamente a una red Z-Wave™.

7. El LED verde parpadeará en Modo 1 si el Dispositivo se ha añadido correctamente a una red Z-Wave™.

"El estado LEARN MODE permite al Dispositivo recibir información del gateway sobre la red.

Añadir (inclusión) con el Botón S:

- Conecte el Dispositivo a la fuente de alimentación.
- Verifique si el LED azul está parpadeando en el Modo 1. Si es así, el Dispositivo está añadido a una red Z-Wave™.
- Active el modo añadir/eliminar en el gateway.
- Para ingresar al modo de ajustes, presione rápidamente y mantenga presionado el Botón S en el Dispositivo hasta que el LED se vuelva de color azul sólido.
- Soltar rápidamente y después pulsar y mantener (> 2s) el Botón S del Dispositivo hasta que el LED azul comience a parpadear en Modo 3. Soltar el Botón S comenzará el Learn mode.
- El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadido).
- Las cargas conectadas a O1 y O2 parpadearán 1s encendido/1s apagado/1s encendido/1s apagado si el Dispositivo se añadió correctamente a una red Z-Wave™.
- El LED verde parpadeará en Modo 1 si el Dispositivo se ha añadido correctamente a una red Z-Wave™.

Nota: En el modo de ajustes, el Dispositivo tiene un tiempo de espera de 10 segundos antes de volver a ingresar al modo normal.

Nota: En caso de hacer la añadir (inclusión) con Security 2 (S2), aparecerá un diálogo pidiendo el código PIN correspondiente (5 dígitos subrayados) de la etiqueta DSK que esta fijada en el lateral del Dispositivo y en la etiqueta DSK dentro del embalaje.

IMPORTANTE: No pierda el código PIN.

Eliminar (exclusión) con el interruptor/pulsador:

- Conecte el Dispositivo a la fuente de alimentación.
- Compruebe si el LED verde esta parpadeando en Modo 1. Si es así el Dispositivo está añadido a la red Z-Wave™.
- Active el modo añadir/eliminar en el gateway.
- Accione el interruptor/presione el Pulsador conectado al terminal SW1 o SW2, 3 veces dentro de 3 segundos (este procedimiento pone al Dispositivo en LEARN MODE™). El Dispositivo debe recibir la señal de encendido/apagado 3 veces, lo que significa presionar el pulsador 3 veces o accionar el interruptor de encendido y apagado 3 veces.
- El LED azul parpadeará en el Modo 2 durante el proceso de exclusión (eliminación).

Las cargas conectadas a O1 y O2 parpadearán 1s encendido/1s apagado/1s encendido/1s apagado si el Dispositivo se eliminó correctamente de una red Z-Wave™.

7. El LED verde estará parpadeando en Modo 1 si el Dispositivo es correctamente eliminado de una red Z-Wave™.

Eliminar (exclusión) con el Botón S:

- Conecte el Dispositivo a la fuente de alimentación.
- Compruebe si el LED verde esta parpadeando en Modo 1. Si es así el Dispositivo está añadido a la red Z-Wave™.
- Active el modo añadir/eliminar en el gateway.
- Para ingresar al modo de ajustes, presione rápidamente y mantenga presionado el Botón S en el Dispositivo hasta que el LED se vuelva de color azul sólido.
- Soltar rápidamente y después pulsar y mantener (> 2s) el Botón S del Dispositivo hasta que el LED azul comience a parpadear en Modo 3. Soltar el Botón S comenzará el Learn mode.
- El LED azul parpadeará en el Modo 2 durante el proceso de exclusión (eliminación).

Las cargas conectadas a O1 y O2 parpadearán 1s encendido/1s apagado/1s encendido/1s apagado si el Dispositivo se eliminó correctamente de una red Z-Wave™.

7. El LED verde estará parpadeando en Modo 1 si el Dispositivo es correctamente eliminado de una red Z-Wave™.

Eliminar (exclusión) con el Botón S:

- Conecte el Dis