



Wave 2PM



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

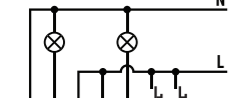


Fig. 2/
Abb. 2/
Image 2/
Image 2

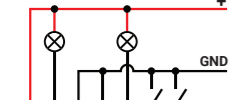


Fig. 3/
Abb. 3/
Image 3/
Image 3

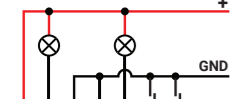


Fig. 4/
Abb. 4/
Image 4/
Image 4



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

EN

LEGEND

Device terminals:

- N: Neutral terminal
- L: Live terminals (110-240 V AC)
- 01: Load circuit 1 output terminal
- 02: Load circuit 2 output terminal
- SW1: Switch/push-button input terminal (controlling O1)
- SW2: Switch/push-button input terminal (controlling O2)
- 24 V DC positive terminal
- 24 V DC ground terminals
- S: S button (Fig. 5)

Wires:

- N: Neutral wire
- L: Live wire (110-240 V AC)
- 24 V DC positive wire
- GND: 24 V DC ground wire

DE

LEGENDE

Geräteanschlüsse:

- N: Klemme für Neutralleiter
- L: Klemmen für Phase (110-240 V AC)
- 01: Ausgangsklemme des Lastkreises 1
- 02: Ausgangsklemme des Lastkreises 2
- SW1: Schalter/Tastereingangklemme (Steuerung O1)
- SW2: Schalter/Tastereingangklemme (Steuerung O2)
- 24 V DC positive Anschlussklemmen
- 24 V DC Erdungsklemmen
- S: Die S-Taste (Abb. 5)

Kabel:

- N: Neutralleiter
- L: Phasenleiter (110-240 V AC)
- 24 V DC Pluspulsable
- GND: 24 V DC Massekabel

IT

Terminali del Dispositivo:

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

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



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). Alterco Robotics EOOD 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 (including) and removing (exclusion) devices, and resetting the device to 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 main operations outside 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 (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 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 all circuits) and its power consumption is measured individually and in total (AC only).

It can be retrofitted into standard electrical wall boxes, behind power sockets 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: Do not 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 connecting the wires.

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 N 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 Neutral wire. Connect the second switch/push-button to the SW2 terminal and the Live wire.

For DC circuits connect both L terminals to the Live 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 / 10 D / 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. Check if the blue LED is blinking in Mode 1. If so, the Device is not added to a Z-Wave™ network.

4. Toggling 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.

Adding (inclusion) with a switch/push-button:

1. Connect the Device to a power supply.

2. Check if the blue LED is blinking in Mode 1. If so, the Device is not 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 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.

Adding (inclusion) with the S button:

1. Connect the Device to a power supply.

2. Check if the blue LED is blinking in Mode 1. If so, the Device is not 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.

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.

Note! In case of Security 2 (S2) adding (inclusion), a dialog will appear asking you to enter 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 BE USED.

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! Factory reset with the switch/push-button is only possible within the first minute after the Device is connected to a power supply.

1. Connect the Device to a power supply.

2. Toggle the switch/push-button connected to the SW1 or SW2 terminal 5 times within 5 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

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 B l u e / R e d / G r e e n **

Adding/Removing (Inclusion/Exclusion) Blue Mode 2

Checking power supply 230 V AC frequency or 24 V DC voltage B l u e / R e d Mode 5

OTA firmware updating B l u e / R e d Mode 2

Alarm mode

Overcurrent detected O1 (O1 + O2) 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 O2 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), each toggle of the switch will change the outputs O1 and O2 states to the 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; 919,7-921,7-923,7 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 lbin
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

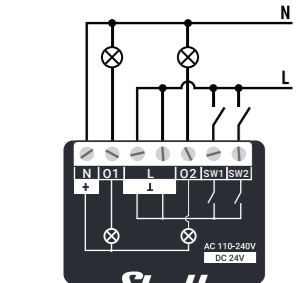


Fig. 1/
Abb. 1/
Imagen 1/
Image 1

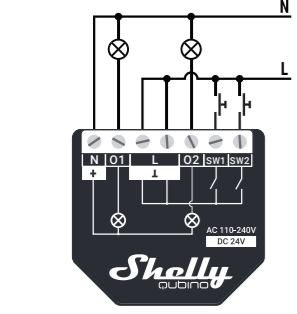


Fig. 2/
Abb. 2/
Imagen 2/
Image 2

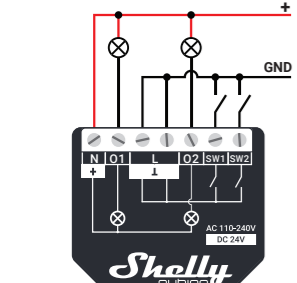


Fig. 3/
Abb. 3/
Imagen 3/
Image 3

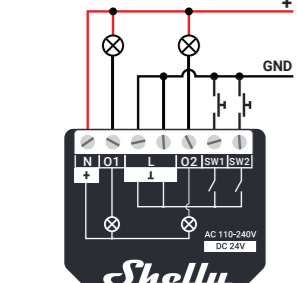


Fig. 4/
Abb. 4/
Imagen 4/
Image 4



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

IT

LEGENDA

- Terminali del Dispositivo:**
- N: Terminale neutro
 - L: Terminali sotto tensione (110-240 V CA)
 - O1: Terminali di uscita del circuito di carico 1
 - O2: Terminali di uscita del circuito di carico 2
 - SW1: Terminali di ingresso interruttore/pulsante (controllo 01)
 - SW2: Terminali di ingresso interruttore/pulsante (controllo 02)
 - : Terminali positivi 24 V CC
 - : Terminali di terra 24 V CC
 - S: Pulsante S (Fig. 5)
- Fili:**
- N: Filo neutro
 - L: Filo sotto tensione (110-240 V CA)
 - O1: Filo del positivo 24 V CC
 - GND: Filo di terra 24 V CC

LEVENDA

- Terminali del Dispositivo:**
- N: Terminal neutro
 - L: Terminali linea (110 - 240 V CA)
 - O1: Terminal de salida del circuito 1
 - O2: Terminal de salida del circuito 2
 - SW1: Terminal de entrada de interruptor/pulsador (Control de 01)
 - SW2: Terminal de entrada de interruptor/pulsador (Control de 02)
 - : 24 V CC terminal positivo
 - : 24 V CC terminal de tierra
 - S: Botón S (Imagen 5)
- Cableado:**
- N: Cable neutro
 - L: Cable de fase (110 - 240 V CA)
 - : 24 V CC cable positivo
 - GND: 24 V CC cable de tierra

SP

LEGNÉ

- Bornes du Dispositif :**
- N : Borne pour le Neutre
 - L : Bornes 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 01)
 - SW2 : Borne d'entrée pour interrupteur/bouton-poussoir (contrôle 02)
 - : Borne positive de 24 V CC
 - : Bornes de terre 24 V CC
 - S : Le bouton S (Image 5)
- Fils :**
- N : Fil neutre
 - L : Fil phase (110–240 V CA)
 - : Fil positif de 24 V CC
 - GND : Fil de terre de 24 V CC

PRIPISTINO DE FABBRICA

Dopo il ripristino delle impostazioni di fabbrica, tutti i parametri personalizzati e i valori memorizzati (kWh, associazioni, indiramenti, ecc.) 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:

- Nota!** 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 il 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:

Nota! 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 il 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.

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)	B l u / Rosso	Modalità 2
Controllo dell'alimentazione Frequenza 230V CA o tensione 24 V CC	B l u / Rosso	Modalità 5
Aggiornamento Firmware OTA	B l u / Rosso	Modalità 2
Modalità allarme		
Sovracorrente rilevata O (01 + 02)	Rosso	Modalità 4 (1x)
Surriscaldamento rilevato	Rosso	Modalità 4 (2x)
Guasto allimentazione (frequenza alimentazione 230 V CA o guasto tensione 24 V CC)	Rosso	Modalità 4 (3x)
Sovracorrente rilevata O1	Rosso	Modalità 4 (4x)
Sovracorrente rilevata O2	Rosso	Modalità 4 (5x)

**Il LED diventerà verde fisso per circa 1s, quindi il 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

Se 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.

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 stati opposti: on, off, on, ecc.

TIPi DI CARICO SUPPORTATI

- Carico resistivo (lampadine a incandescenza, dispositivi di riscaldamento)
- Carico capacitivo (banchi di condensatori, apparecchiature elettroniche, condensatori di avviamento motore)
- Carico induttivo con RC Snubber (driver luci LED, trasformatori, ventilatori, 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 totali di picco
Massimo. tensione di commutazione CC	30 V
Massimo. corrente di commutazione CC	10 A
Protezione da surriscaldamento	SI
Protezione da sovracorrente	SI
Distanza	fino a 40 m al chiuso (131 piedi) (dipende dalle condizioni locali)
Ripetitore Z-Wave™	SI
Processore	Z-Wave™ S800
Bande 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 mm² / da 20 a 16 AWG
Lunghezza spelata del conduttore	da 5 a 6 mm / da 0,20 a 0,24 pollici
Materiale guscio	Plastica
Colore	Nero
Temperatura ambiente	Da -20°C a 40°C / da -5°F a 105°F
Umidità	Da 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 dal suo funzionamento. Se il Dispositivo non viene riconosciuto dal gateway, viene visualizzato in modo errato, potrebbe essere necessario modificare manualmente il tipo di dispositivo e assicurarsi che il gateway supporti i dispositivi multiview Z-Wave Plus™.

CODICE DI ORDINAZIONE: QNSW-002P16XX

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

DICHIARAZIONE DI CONFORMITÀ

Con la presente, Alterco Robotics EOOD dichiara che il tipo di apparecchiatura radio Wave 2PM è conforme alla Direttiva 2014/53/UE, 2014/35/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:

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

MANUAL DE USO Y SEGURIDAD

Interruptor 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 comenzar la instalación, lea atentamente y por completo la documentación adjunta. El incumplimiento de los procedimientos recomendados puede provocar un mal funcionamiento, un peligro para su vida o una violación de la ley. Alterco Robotics EOOD no se hace responsable de cualquier pérdida o daño debido a una instalación o uso inadecuado de este Dispositivo.

TERMINOLOGÍA

Gateway – Un gateway Z-Wave™ controlador domotico Z-Wave™ también denominado controlador Z-Wave™, controlador principal Z-Wave™ o hub Z-Wave™, etc. es el dispositivo que sirve de centro de control para una red de hogar inteligente Z-Wave™. Se utiliza 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 predeterminada 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 de forma remota 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 cómo se fabriquen 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. Enciende o apaga dos cargas independientes y mide su consumo por separado y todo. El Dispositivo es compatible con todo tipo de computadores y pulsadores.

DIAGRAMA ELÉCTRICO (110-240 V CA / 24 V CC)

Referido a los esquemas (Imagen 1-4) en esta guía.

ISTRUCCIONES DE INSTALACIÓN

El Dispositivo puede controlar varios tipos de cargas (por ejemplo bombillas). Cada circuito puede soportar cargas de hasta 10 A (con un total de 16 A sumando ambos circuitos) y el consumo eléctrico se mide individualmente y en total (solo CA).

Pueden instalarse en un cuadro eléctrico, detrás de los enchufes e interruptores de luz o en otros lugares con poco espacio.

¡ATENCIÓN! Peligro de inflamación de la red. Los dispositivos están diseñados para la red eléctrica debe ser realizado con cuidado, por un electricista cualificado.

¡ATENCIÓN! Peligro de descarga eléctrica. Cualquier modificación de las conexiones debe realizarse después de asegurarse de que no hay tensión en los terminales del Dispositivo.

¡ATENCIÓN! Use el Dispositivo solo con una fuente de alimentación y un equipo que cumplan con todas las normas aplicables. Un cortocircuito en la red eléctrica o en cualquier aparato conectado al Dispositivo puede dañarlo.

¡ATENCIÓN! No conecte el Dispositivo a aparatos que superen la carga máxima indicada.

¡ATENCIÓN! No cortar la antena.

¡RECOMENDACIÓN! Ubicar la antena tan lejos como sea posible de elementos metálicos que puedan causar interferencias en la señal.

¡ATENCIÓN! Conecte el Dispositivo sólo de la manera indicada en estas instrucciones. Cualquier otro método puede causar daños y/o lesiones.

¡ATENCIÓN! No instale el Dispositivo en un lugar donde pueda mojarse.

¡ATENCIÓN! No utilice el Dispositivo si está dañado.

¡ATENCIÓN! No intente manipular o reparar el Dispositivo usted mismo.

¡RECOMENDACIÓN! Conecte el Dispositivo con cables monoconductores sólidos con una resistencia térmica del aislamiento superior a la del PVC 1105°C (221°F).

¡ATENCIÓN! Antes de iniciar la instalación/montaje del Dispositivo, compruebe que los disyuntores están desconectados y que no haya tensión en sus bornes. Esto puede hacerse con un medidor de fase o un multímetro. Cuando esté seguro de que no hay tensión, puede proceder a conectar los cables.

Si desea utilizar el Dispositivo con un pulsador, consulte la Fig. 2 y la Fig. 4. Para un interruptor, consulte la Fig. 1 y la Fig. 3.

¡ATENCIÓN! Utilice únicamente un circuito monofásico de corriente alterna (CA). No utilice circuitos mixtos de CA y CC.

Para los circuitos de CA, conecte los dos terminales L al cable de fase y el terminal N al cable neutro. Conecte los primeros circuitos de carga al terminal O1 y al cable de neutro. Conecte los segundos circuitos de carga al terminal O2 y al cable de neutro. Conecte el primer interruptor/pulsador al terminal SW1 y el cable GND. Conecte el segundo interruptor/pulsador al terminal SW2 y al cable de neutro.

Para los circuitos de CC, conecte los dos terminales L al cable GND y el terminal + al cable positivo. Conecte los primeros circuitos de carga al terminal O1 y al cable positivo. Conecte los segundos circuitos de carga al terminal O2 y al cable positivo. Conecte el primer interruptor/pulsador al terminal SW1 y el cable GND. Conecte el segundo interruptor/pulsador al terminal SW2 y al cable GND.

¡RECOMENDACIÓN! En el caso de los aparatos inductivos que provocan picos de tensión durante el encendido y el apagado, como los motores eléctricos, los ventiladores, las aspiradoras y otros similares, debe conectarse un amortiguador RC (0,1 µF / 100 Ω / 1/2 W / 600 V CA) en paralelo al aparato.

¡ATENCIÓN! No permita que los niños jueguen con los botones/interruptores conectados al Dispositivo. Mantenga los dispositivos que permiten el control remoto de Shelly Qubino (teléfonos móviles, tabletas, ordenadores) fuera del alcance de los niños.

añADIR/ELIMINAR (INCLUSIÓN/ EXCLUSIÓN) Z-WAVE™

Añadir (Inclusión) SmartStart:

Si su gateway proporciona inclusión SmartStart, los productos habilitados con SmartStart se pueden agregar a una red Z-Wave™ escaneando el código QR de Z-Wave™ presente en el Dispositivo. No se requiere ninguna acción adicional y el dispositivo SmartStart se agregará automáticamente dentro de los 10 minutos posteriores a su encendido en la cercanía de la. Cuando está en modo normal.

1. Con la aplicación del gateway, escanee el código QR de la etiqueta de identificación y agregue la Device Specific Key (DSK) de Security 2 (S2) a la lista de aprovisionamiento en el gateway.

2. Conecte el Dispositivo a la fuente de alimentación.

3. Verifique si el LED azul está parpadeando en el Modo 1. Si es así, el Dispositivo no está añadido a una red Z-Wave™.

4. La inclusión (añadir) comenzará automáticamente unos segundos después de alimentar el Dispositivo, y el Dispositivo se añadirá a la red Z-Wave™ automáticamente.

5. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

6. 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™.

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

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

9. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

10. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

11. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

12. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

13. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

14. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

15. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

16. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

17. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

18. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

19. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

20. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

21. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

22. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

23. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

24. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

25. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

26. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

27. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

28. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

29. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

30. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

31. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

32. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

33. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

34. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

35. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

36. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

37. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

38. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

39. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

40. El LED azul parpadeará en el Modo 2 durante el proceso de inclusión (añadir).

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

Añadir (Inclusión) con el Botón S:

1. Conecte el Dispositivo a la fuente de alimentación.

2. Verifique si el LED azul está parpadeando en el Modo 1. Si es así, el Dispositivo no está añadido a una red Z-Wave™.

3