

User and Safety Manual

Ogemray SW40 PbS

25A Smart Switch with Power Measurement



Safety Instructions

For safe and correct use, read this manual and all accompanying documents. Keep them for future reference. Failure to follow installation instructions may result in malfunction, danger to health and life, violation of law, and/or voiding of legal and commercial warranties (if any). Shelly Europe Ltd. is not responsible for any loss or damage caused by improper installation

- ⚠ This sign indicates a safety instruction.
- (i) This sign indicates important information.
- ⚠ **ATTENTION!** Danger of electric current. The connection of the device to the mains must be carried out carefully by a qualified electrician.
- ⚠ Before connecting the device, switch off the fuses. Use a suitable appliance to make sure that there is no voltage in the cables you are going to connect. When you are sure that there is no voltage, proceed with the installation of the device.
- ⚠ **ATTENTION!** Before making any changes to the connections, make sure that there is no voltage in the terminals and cables you will be handling.
- ⚠ Connect the device only to electrical circuits and appliances that comply with applicable regulatory requirements. A short circuit in the mains or in a connected appliance may cause fire, damage to the device, or electric shock.
- ⚠ **WARNING!** The device should only be used to operate electrical appliances and circuits that comply with current safety standards and requirements.
- ⚠ Do not connect the device to appliances that exceed the specified maximum electrical load.
- ⚠ **ATTENTION!** Connect the device only in the manner described in these instructions. Any other method may result in damage and/or injury.
- ⚠ The device and appliances connected to it must be protected by an automatic fuse in accordance with standard EN60898-1 (shut-off characteristic B or C, 25A rated current, min. 6 kA interruption, energy limiting class 3).
- ⚠ **WARNING!** Do not use the device if it shows signs of damage or defect.
- ⚠ **CAUTION!** Do not attempt to repair the device yourself.
- ⚠ **WARNING!** The device is intended for indoor use only.
- ⚠ **CAUTION!** Keep the device free of dust and moisture.
- ⚠ Do not allow children to play with the device. Keep the devices (mobile phones, tablets, computers) used for remote control away from children.

Product Description

The Ogemray 25A (the device) is a smart key with power measurement. It works with AC power supply. The device has a built-in web interface for monitoring, management, and setup.

The web interface is accessible on <http://192.168.33.1>, with a direct connection to the device's access point or its IP address when accessing from the same network.

The device can also connect to other devices or automation systems if they are on the same network infrastructure. Shelly Europe Ltd. provides APIs for devices, their integration and cloud control. For more information, visit: <https://shelly-api-docs.shelly.cloud/>

To keep the device secure, Shelly Europe Ltd. provides the latest firmware versions free of charge. Updates can be accessed through the app or web interface. Shelly Europe Ltd. recommends that you periodically check for available updates and install them in a timely manner to ensure stable and secure operation of the device.

Installation Instructions

- (i) To connect the device, it is recommended to use solid single-core wires or stranded wires with lugs. The conductors must have insulation with a heat resistance of not lower than PVC T105°C (221°F).
- ⊘ Do not use buttons or switches with built-in LED lights or neon lights.
- (i) When connecting wires to the terminals of the device, observe the specified cross-section and length of the bare part. Do not connect multiple wires in the same terminal.
- (i) For security reasons, after successfully connecting the device to the desired Wi-Fi network, we recommend that you disable or password protect its Access Point (Access Point / AP).
- (i) To return the device to factory settings, press and hold the Control/Reset button for 10 seconds.
- (i) To activate the access point and Bluetooth connection of the device, press and hold the Control/Reset button for 5 seconds.
- ⊘ Do not use the L terminal(s) of the device to power other devices.

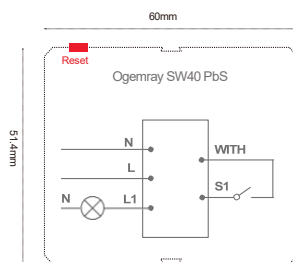


Fig 1. Wiring diagram

Legend

- L1: Cargo Outlet
- S1: Key/Bud Entry
- L: Phase (110-240 V~)
- N: Zero
- COM: key/button output

Fig. 1:

1. Connect the load chain ktm terminal on device L1.
2. Connect the phase wire to terminal L.
3. Connect the neutral wire to the N terminal on the device
4. Connect a key or button to the S1 and COM terminals on the device.

Technical specifications

Physically

- Dimensions (HxWxD): 60x52.4x24 mm / 2.36x2.06x0.94 in
- Weight: 52 g / 1.83 oz
- Maximum screw terminal torque: 0.4 Nm / 3.5 lbin
- Wire cross-section: 2.5 to 6.0 mm² / 14 to 9 AWG (single-core, stranded and cable lugs)
- Length of the bare part of the wire: 6 to 7 mm / 0.24 to 0.28 in
- Housing Material: Plastic

On a working environment

- Operating Ambient Temperature: -20°C to 40°C / -5°F to 105°F
- Humidity: 30% to 70% RH
- Max. Altitude: 2000 m / 6562 ft

Electric

- Power supply: 110 – 240 V~ 50/60Hz
- Consumption: < 1.2 W

Features of output circuits

- Max. switching voltage: 240 V~
- Max. switching current: 25 A
- Max. Power: 6000 W

Sensors, meters and

- Voltmeter (AC): Yes
- Ammeter (AC): Yes

Wi-Fi

- Minutes: 802.11 b/g/n
- Frequency band: 2412 - 2472 MHz
- Max. radio frequency power: < 20 dBm
- Range: Up to 50 m / 165 ft outdoors, up to 30 m / 99 ft indoors (depending on conditions)

Bluetooth

- Minutes: 5.0
- Frequency band: 2402 - 2480 MHz
- Max. radio frequency power: < 4 dBm
- Range: Up to 30 m / 100 ft outdoors, up to 10 m / 33 ft indoors (depending on conditions)

Microcontroller

- CPU: ESP-Shelly-C38F
- Flash memory: 8 MB

Firmware functionalities

- Schedules: 20
- Webhooks (URL actions): 20 with up to 5 webhook URLs
- Wi-Fi range extender : Yes
- BLE Gateway: Да
- Scripts: Yes
- MQTT: Yes.
- Encryption: Yes

Integration with Shelly Cloud

The device can be monitored, managed, and configured through the Shelly Cloud home automation service. You can use the service through the mobile application for Android, iOS or Harmony OS, or through any Internet browser at:

<https://control.shelly.cloud/>

If you choose to use the device with the Shelly Cloud app and service, you can find instructions on how to connect the device to the cloud and manage it through the Shelly app in the app guide: <https://shelly.link/app-guide>

Troubleshooting

In case problems arise with the installation or operation of the device, check for possible causes and solutions on the page: <https://shelly.link/Ogemray25A>

Declaration of Conformity

Hereby, Shenzhen Ogemray Technology Co., LTD declares that the Ogemray SW40 PbS smart key device is in compliance with the requirements of 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/ogemray-sr25a-doc>

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Changes to the contact information are published by the Importer on the official website.

Disposal and recycling

Do not dispose of the product in household waste. Recycle the product to prevent damage to the environment and health and to promote resource conservation. Dispose of the product in a suitable waste collection location at your own risk.

Resellers from whom the Device is purchased are required to accept waste electrical and electronic equipment (WEEE) free of charge for proper disposal.

Some electronic products may store personal data. The User is responsible for deleting this data before disposing of the Device. To erase, reset the device to factory settings.

