

User and safety guide

Ogemray SW40 PbS

25A Smart switch with power measurement
Referred to in this document as "the Device"

POWERED BY

Shelly

Safety information

For safe and proper use, read this guide, and any other documents accompanying this product. Keep them for future reference. Failure to follow the installation procedures can lead to malfunction, danger to health and life, violation of law, and/or refusal of legal and commercial guarantees (if any). Shelly Europe Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure to follow the user and safety instructions in this guide.

 This sign indicates safety information.

 This sign indicates an important note.

⚠ WARNING! Risk of electric shock. Installation of the Device to the power grid must be performed carefully by a qualified electrician.

⚠ WARNING! Before installing the Device, turn the circuit breakers off. Use a suitable test device to make sure there is no voltage on the wires you want to connect. When you are sure that there is no voltage, proceed to the installation.

⚠ WARNING! Before making any changes to the connections, ensure there is no voltage present at the Device terminals.

⚠ 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 may be connected to and control only electric circuits and appliances that comply with the applicable standards and safety norms.

⚠ CAUTION! Do not connect the Device to appliances that exceed the specified maximum electric load.

⚠ CAUTION! Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.

⚠ 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, 25 A rated current, min. 6 kA interrupting rating, energy limiting class 3).

⚠ CAUTION! Do not use the Device if it shows any sign of damage or defect.

⚠ CAUTION! Do not attempt to repair the Device yourself.

⚠ CAUTION! The Device is intended only for indoor use.

⚠ CAUTION! Keep the Device away from dirt and moisture.

⚠ CAUTION! Do not allow children to play with the buttons/switches connected to the Device. Keep the devices (mobile phones, tablets, PCs) for remote control of Shelly away from children.

Product description

Ogemray 25A (the Device) is a smartswitch with power measurement. It operates AC power. The Device has an embedded web interface used to monitor, control, and adjust the Device. The web interface is accessible at <http://192.168.33.1> when connected directly to the Device access point or at its IP address when you and the Device are connected to the same network. The Device can access and interact with other smart devices or automation systems if they are in the same network infrastructure. Shelly Europe Ltd. provides APIs for the devices, their integration, and cloud control. For more information, visit <https://shelly-api-docs.shelly.cloud>.

 The Device comes with factory-installed firmware. To keep it updated and secure, Shelly Europe Ltd. provides the latest firmware updates free of charge. Access the updates through either the embedded web interface or the Shelly Smart Control mobile application. Installation of firmware updates is the user's responsibility. Shelly Europe Ltd. shall not be liable for any lack of conformity of the Device caused by the failure of the user to install the available updates in a timely manner.

Installation instructions

 To connect the Device, we recommend using solid single-core wires or stranded wires with ferrules. The wires should have insulation with increased heat resistance, not less than PVC T105°C (221°F).

 Do not use buttons or switches with built-in LED or neon glow lamps.

 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.

 For security reasons, after you successfully connect the Device to the local Wi-Fi network, we recommend that you disable or password-protect the Device AP (Access Point).

 To perform a factory reset of the Device, press and hold the Control button for 10 seconds.

 To enable the access point and the Bluetooth, press and hold the Control button for 5 seconds.

 Do not use L terminal(s) of the device to power other devices.

Wiring diagram

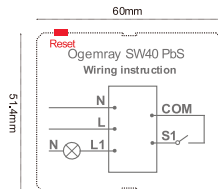


Fig.1. 110-240 V~ Power supply

Legend

Device terminals

- **L1:** Load circuit output terminal
- **S1:** Switch input terminal (controlling L1)
- **L:** Live terminal (110-240 V~)
- **N:** Neutral terminal
- **COM**

1. Connect the load circuit to the L1 terminal of the Device.
2. Connect the Live wire to an L terminal of the Device.
3. Connect the Neutral wire to an N terminal of the Device
4. Connect a switch or button to S1 and COM terminals of the Device.



Specifications

Physical

- Size (HxWxD): 60x52.4x24 mm / 2.36x2.06x0.94 in
- Weight: 52 g / 1.83 oz
- Screw terminals max torque: 0.4 Nm / 3.5 lbin
- Conductor cross section: 2.5 to 6.0 mm² / 14 to 9 AWG (solid, stranded, and bootlace ferrules)
- Conductor stripped length: 6 to 7 mm / 0.24 to 0.28 in
- Shell material: Plastic

Environmental

- Ambient working temperature: -20°C to 40°C / -5°F to 105°F
- Humidity: 30% to 70% RH
- Max. altitude: 2000 m / 6562 ft

Electrical

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

Output circuits ratings

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

Sensors, meters

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

Radio

Wi-Fi

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

Bluetooth

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

Microcontroller unit

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

Firmware capabilities

- Schedules: 20
- Webhooks (URL actions): 20 with 5 URLs per hook
- Wi-Fi range extender: Yes
- BLE Gateway: Yes
- Scripting: Yes
- MQTT: Yes
- Encryption: Yes

Shelly Cloud inclusion

The Device can be monitored, controlled, and set up through our **Shelly Cloud** home automation service. You can use the service through either our Android, iOS, or HarmonyOS mobile application or through any internet browser at <https://control.shelly.cloud/>.

If you choose to use the Device with the application and Shelly Cloud service, you can find instructions on how to connect the Device to the Cloud and control it from the Shelly app in the application guide:

<https://shelly.link/app-guide>.

Troubleshooting

In case you encounter problems with the installation or operation of the Device, check its knowledge base page:

<https://shelly.link/Ogemray25A>

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Official website: <https://www.shelly.com>

Changes in 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 environmental and health damage and to promote resource conservation. Dispose of the product at an appropriate waste collection point at your own responsibility.

Resellers, from which the Device was 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. For deletion, reset the device to its factory settings.



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