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Shelly Gen3 Wi-Fi Smart Power Meter PM Mini User Guide

Contents

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USER AND SAFETY GUIDE Wi-Fi smart power meter Shelly PM Mini Gen3

Read before use This document contains important technical and safety information about the device, its safe

use, and installation.

CAUTION! Before you start the installation, read carefully and entirely this guide carefully and any other documents accompanying the device. Failure to follow the installation procedures can lead to malfunction, danger to your health and life, violation of law, 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.

Product Description

Shelly PM Mini Gen3 (the Device) is a small form factor smart power meter, which allows remote monitoring of electric appliances' power consumption. It can be retrofitted into standard electrical wall boxes, behind power sockets and light switches or other places with limited space. The Device can be accessed, controlled, and monitored remotely from any place where the User has internet connectivity, as long as the device is connected to a Wi-Fi router and the Internet. The Device has an embedded web interface that you can use to monitor, control the Device, and adjust its settings. The web interface is accessible at **http://192.168.33.1** when you are connected directly to the Device access point or at its IP address when you and the Device are connected to the same network.

NOTICE: The Device comes with a factory-installed firmware. To keep it up-to-date and secure, Shelly Europe Ltd. provides the latest firmware updates free of charge. You can access the updates through either the embedded web interface or the Shelly Smart Control mobile application, where you can find details about the latest firmware version. The choice to install or not the firmware updates is the user's sole 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 promptly.
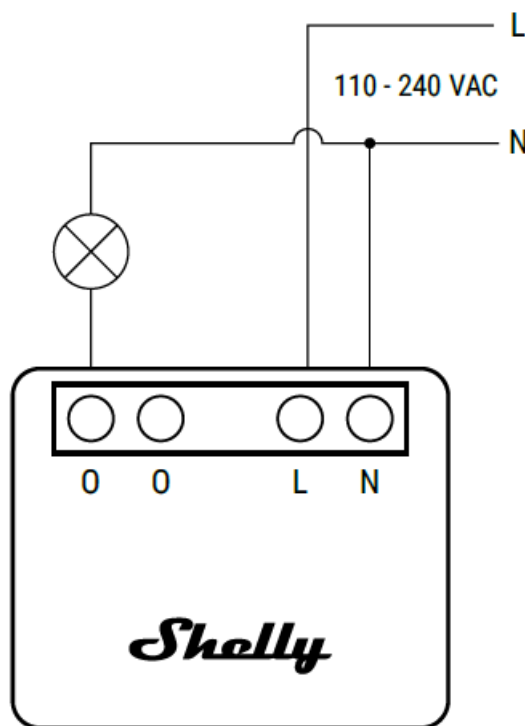
Schematic

Fig. 1

Legend Device terminals:

- O: Output terminals (bridged internally)

- L: Live (110-240V) terminals
- N: Neutral terminals

Wires

- N: Neutral wire
- L: Live wire (110 – 240 VAC) Installation Instructions

CAUTION

- Danger of electrocution. Mounting/installation of the Device to the power grid has to be performed with caution, by a qualified electrician.
- Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the Device terminals.
- Do not use the device if it shows any sign of damage or defect.
- Do not open the device. It does not contain any parts that can be maintained by the user. For safety and licensing reasons, unauthorized change and/or modification of the device is not permitted.
- 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.
- No SELV/PELV circuits may be connected to the terminals of the inputs and outputs, including the extension inputs.
- Do not connect the Device to appliances exceeding the given max load!
- Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.
- The Device is intended for indoor use only.
- Keep the Device away from liquids and moisture. Do not use the device in places with high humidity.
- The Device has to be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 10 A rated current, min. 6 kA interrupting rating, energy limiting class 3).
- 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 connect the wires.

RECOMMENDATION:

- Connect the Device using solid sin-gle-core wires or stranded wires with ferrules.
- Connect the load to any of the O terminals of the Device and the Neutral wire, as shown in Fig. 1. Connect the Live wire to an L terminal of the Device.
- Connect the Neutral wire to an N terminal of the Device.

Initial Inclusion

If you choose to use the Device with the Shelly Smart Control mobile application and cloud service, instructions on how to connect the Device to the Cloud and control it through the Shelly Smart Control app can be found in the mobile application guide. The Shelly mobile application and Shelly Cloud service are not conditions for the Device to function properly. This Device can be used standalone or with various other home automation platforms and

protocols.

Specification

- Dimensions (HxWxD): 29x34x16 mm / 1.34×1.11×0.63 in
- Ambient temperature: -20 °C to 40 °C / -5 °F to 105 °F
- Humidity 30 % to 70 % RH
- Max. altitude 2000 m / 6562 ft
- Power supply: 110 – 240 VAC, 50/60Hz
- Electrical consumption: < 1.2 W
- Max. measurement current AC: 16 A
- Max. measurement power: 3840 W
- RF band: 2400 – 2495 MHz
- Max. RF power: < 20 dBm
- Wi-Fi protocol: 802.11 b/g/n
- Wi-Fi operational range (depending on local conditions):
    - up to 50 m / 160 ft outdoors
    - up to 30 m / 100 ft indoors
- Bluetooth protocol: 4.2
- Bluetooth operational range (depending on local conditions):
    - up to 30 m / 100 ft outdoors
    - up to 10 m / 33 ft indoors
- CPU: ESP-Shelly-C38F
- Flash: 8 MB
- Webhooks (URL actions): 20 with 5 URLs per hook
- Scripting: Yes
- MQTT: Yes

Declaration of conformity

Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly PM Mini Gen3 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/pm_mini_gen3_DoC** Manufacturer: Shelly Europe Ltd.

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Documents / Resources

	[Shelly Gen3 Wi-Fi Smart Power Meter PM Mini](#) [pdf] User Guide Gen3 Wi-Fi Smart Power Meter PM Mini, Gen3, Wi-Fi Smart Power Meter PM Mini, Power Meter PM Mini, Meter PM Mini, Mini

References

- ↻ **[Shelly - Shelly](#)**
- ↻ **[Easy Smart Home Automation](#)**
- **[User Manual](#)**