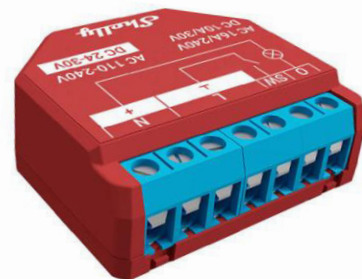# Shelly *PLUS* 1PM

TRACK THE POWER CONCUMPTION
Shelly Plus 1PM has an integrated precise power meter that allow you to measure the power consumption and features free data storage for analysis.

HEATING CONTROL ON SCHEDULE
Set Shelly Plus 1PM to turn on the heating appliances in your house an hour before you come from work. Remotely monitor the power consumption of your heaters to make sure they're running and warming up.

APPLIANCES AUTOMATION
Get precise measurement of the power consumption of your home appliances and switch them on/off remotely, no matter where you are.

Power metering with data storage
Provides precise monitoring of the power consumption.

Wi-Fi operated
Connect Shelly Plus 1 PM to your Wi-Fi network.

Bluetooth
Add devices quickly and easily via Bluetooth connection, using Shelly Cloud App.

Extremely fast processor
For immediate command execution and notification

Enhanced safety
Over-temperature protection for prevention of failures.

Enhanced security
MQTT and WSS support, TLS certificate support and management for a broad range of use cases.

Improved API interface
Broad range of cloud connections and local integrations.

No hub required
Control directly without a hub through your smartphone with Shelly Cloud App
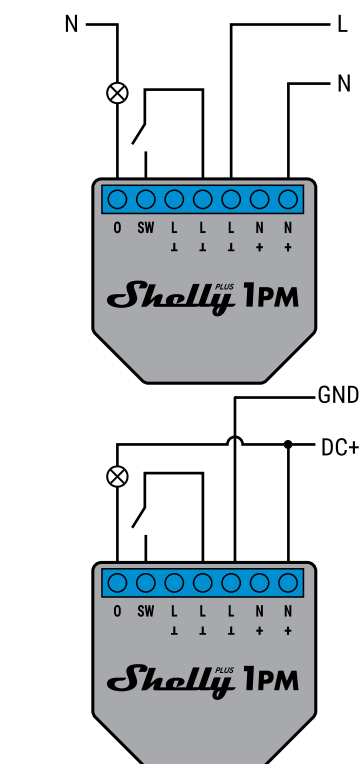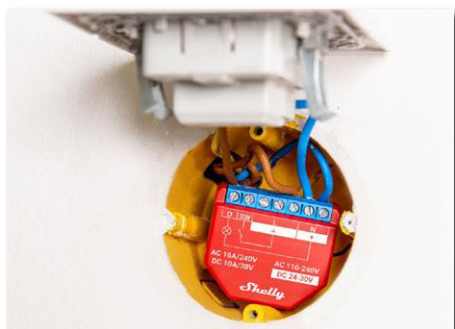
Highly compatible
Use with your preferred home automation platforms and voice assistants.

NEXT GENERATION APPLIANCES CONTROL WITH PRECISE POWER METERING

Small enough to fit behind any wall switch or wall socket, **Shelly Plus 1PM** is designed for retrofit applications and can be installed in less than 10 minutes. From automatization of the lights to electrical appliances control, Shelly Plus 1PM provides precise power metering and free cloud data storage.

TECHNICAL SPECIFICATIONS

Power supply	• 110-240V, 50/60Hz AC • 24-30V DC
Max load per channel	16A
Complies with EU standards:	• RE Directive 2014/53/EU • LVD 2014/35/EU • EMC 2014/30/EU • RoHS2 2011/65/EU
Working temperature	-20°C ÷ 40°C
Radio signal power	1mW
Wireless/WiFi Protocol	802.11 b/g/n (2.4 GHz)
Frequency:	2412 - 2472 MHz
Operational range (depending on local construction)	• up to 50 m outdoors • up to 30 m indoors
Dimensions (HxWxL)	42x37x17 mm
Electrical consumption	< 1.2 W
Wire cross section range	0.5 ÷ 1.5 mm²

Legend
Terminals:
N: Neutral terminal
L: Live (110-240V) terminal
O: Output terminal
SW: Switch terminal
+: DC positive terminal
⊥: DC ground terminal
Wires:
N: Neutral wire
L: Live (110-240V) wire
GND: DC ground wire
DC+: DC positive (24-30 V) wire