

Shelly Plus Smoke



Device identification

- Device name: **Shelly Plus Smoke**
- Device model: **SNSN-0031Z**
- Device SSID: **ShellyPlusSmoke-XXXXXX**

Short description

Shelly Plus Smoke (**the Device**) is a smart photoelectric smoke alarm, which is effective at detecting slow fires that smolder for hours before bursting into flames.

Sources of these fires may include burning cigarettes left on couches or bedding.

Features

- Battery operated
- LED indication
- Low battery warning
- Alarm pause (Hush mode)
- Test function
- Easy Installation
- DIN EN 14604 certified

Main applications

- Residential

Connectivity

- Wi-Fi
- Bluetooth

Each connectivity option can be enabled or disabled by the user.

User interface

Inputs

- One push button
 - Press and hold for 3 sec to test the Device.
 - Press briefly to silence an alarm.
 - Press briefly 3 times to put the Device in Setup mode for 2 minutes.
 - Press briefly 5 times to factory reset. Device stays in Setup mode for 2 minutes.

Outputs

- LED indication
 - Normal operation: Red light flashes once every 53 seconds.
 - Testing: 3 red light flashes.
 - Alarm: Continuous red light flashes.
 - Malfunction: Red light flashes twice every 53 seconds
 - Hushed alarm: Red light flashes once every 10 seconds.
 - Low battery warning: Red light flashes once every 53 seconds (with sound).
 - Hushed low battery warning: Red light flashes once every 53 seconds (with no sound).
 - Device in Setup mode: Green light flashes quickly.
 - Device in Setup mode for 2 minute: Green light flashes slowly.
- Buzzer
 - Button pressed: 1 short beep.
 - Testing: 3 short beeps.
 - Alarm: Continuous loud beeps.

- Low battery warning: Short beep once every 53 seconds.

Specifications

Type	Value
Physical	
Size (DxH):	86x31 ±0.5 mm / 3.39x1.22 ±0.02 in
Weight:	95 ±1 g / 3.35 ±0.05 oz
Mounting:	Ceiling
Shell material:	Plastic
Color:	White
Device lifespan:	10 years
Environmental	
Ambient temperature:	-0 °C to 55 °C / 32 °F to 131 °F
Humidity:	30 % to 95 % RH
Electrical	
Power supply voltage AC:	N/A
Power supply voltage DC:	1x 3 V CR123A/CR17335 battery
Battery lifespan:	5 years (with original battery)
Sensors, meters	
Smoke sensor:	Photoelectric
Radio	
RF band:	2400 - 2495 MHz
Max. RF power:	<20 dBm
Wi-Fi protocol:	802.11 b/g/n

Wi-Fi Range:	Up to 30 m / 100 ft indoors and 50 m / 160 ft outdoors (Depends on local conditions)
Bluetooth Protocol:	4.2
Bluetooth Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
MCU	
CPU:	ESP32-U4WDH
Flash:	4 MB
Firmware capabilities	
Webhooks (URL actions):	10 with 2 URLs per hook
Scripting:	No
MQTT:	Yes
CoAP:	No

Troubleshooting

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Web interface guide

[Read the Shelly Plus Smoke web interface guide.](#)

Components and APIs

- [This device](#)
- [All Shelly devices and services](#)

Compliance

[Shelly Plus Smoke Alarm multilingual EU declaration of conformity 210 2025-10-15.pdf](#)

[Shelly Plus Smoke Alarm UK PSTI ACT Statement of compliance.pdf](#)

[Compliance archive](#)

[Shelly Plus Smoke multilingual EU declaration of conformity 10 2023-08-21.pdf](#)

[Shelly Plus Smoke Alarm multilingual EU declaration of conformity 99 2025-07-21.pdf](#)

Battery material safety data sheet

[HCB-WI-MSDS-01-003](#)

Printed user guides

[Shelly Plus Smoke multilingual printed user and safety guide.pdf](#)

- [Ръководство за употреба и безопасност](#)

[Shelly Plus Smoke networking guide](#)

- [Ръководство за мрежова конфигурация](#)

Installation guides

- [Shelly Plus Smoke User and Safety Guide](#)