

Shelly Shelly Plus Add-On



Shelly Plus Add-On Instruction Manual

Wi-Fi & Bluetooth Add-On for Shelly Plus Devices

1. INTRODUCTION

The Shelly Plus Add-On is a versatile accessory designed to expand the functionality of your Shelly Plus devices. It acts as a galvanically isolated sensor interface, enabling the connection of various external sensors to your Shelly Plus relays. This allows for precise measurement of environmental parameters such as temperature and humidity, as well as integration with other analog and digital sensors for advanced home automation scenarios.

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Shelly Plus Add-On.

2. SAFETY INFORMATION

Please read this user guide carefully before installing or using the device. Failure to follow these instructions may lead to malfunction, danger to your health and life, violation of law, or refusal of legal and commercial guarantee. Shelly is not responsible for any loss or damage in case of incorrect installation or operation of this device.

- Ensure the device is installed by a qualified electrician or person with appropriate knowledge.
- Disconnect power to the Shelly Plus device before connecting the Add-On or any sensors.
- Do not expose the device to water or high humidity.
- Use the device only with Shelly Plus devices as intended.
- Observe all local and national safety regulations during installation and operation.

3. WHAT'S IN THE BOX

- 1 x Shelly Plus Add-On
- User manual

4. SPECIFICATIONS

Feature	Specification
Model Number	3800235266427
Dimensions (L x W x H)	1.46 x 1.65 x 1.46 inches (37mm x 42mm x 37mm)
Weight	13 Grams (0.46 ounces)
Material	Plastic
Connectivity	Wi-Fi, Bluetooth
Sensor Support	Up to 5 DS18B20 temperature sensors, 1 DHT22 humidity sensor, NTC resistors (10 k Ω nominal, β =4000 K), Photoresistors, PIR sensors, Soil moisture sensors, Ultrasonic proximity sensors, Capacitive liquid level sensors, Sound detectors, Analog sensors (0-10 V output)
Inputs	Analog Input, Digital Input

The Shelly Plus Add-On is designed for compact integration with Shelly Plus devices.



5. SETUP AND INSTALLATION

The Shelly Plus Add-On is designed to be easily connected to compatible Shelly Plus devices. Ensure the main Shelly Plus device is powered off before proceeding with any connections.

5.1 Connecting the Add-On to a Shelly Plus Device

The Add-On typically snaps onto the main Shelly Plus device. Refer to the specific Shelly Plus device manual for exact connection points.

5.2 Sensor Wiring

The Shelly Plus Add-On provides terminals for various sensor types:

- **1-Wire Terminals (VCC, DATA, GND):** For DS18B20 temperature sensors (up to 5) or DHT22 humidity sensors (1).
- **Analog Input (GND, ANALOG IN):** For analog sensors with 0-10V output.
- **Digital Input (GND, DIGITAL IN):** For digital sensors like reed switches or PIR sensors.
- **VREF OUT / VREF + R1 OUT:** For NTC resistors and other specific sensor types.



Image: Detailed wiring diagrams for connecting various sensors (DS18B20, DHT22, analog, digital) to the Shelly Plus Add-On.

5.3 Initial Configuration

After physical installation, power on the Shelly Plus device. Use the Shelly Smart Control App to discover and configure the Add-On and connected sensors. The app allows you to manage settings and integrate the sensors into your home automation system.

6. OPERATING INSTRUCTIONS

The Shelly Plus Add-On extends the capabilities of your Shelly Plus device, enabling a wide range of automation possibilities based on sensor data.

6.1 Temperature and Humidity Monitoring

Connect DS18B20 sensors for temperature or a DHT22 sensor for both temperature and humidity. The Shelly Smart Control App will display the readings, allowing you to create automation rules based on these values.

Measure and control **precisely**

- Shelly Plus Add-on is a galvanically isolated sensor interface for all Shelly Plus relays

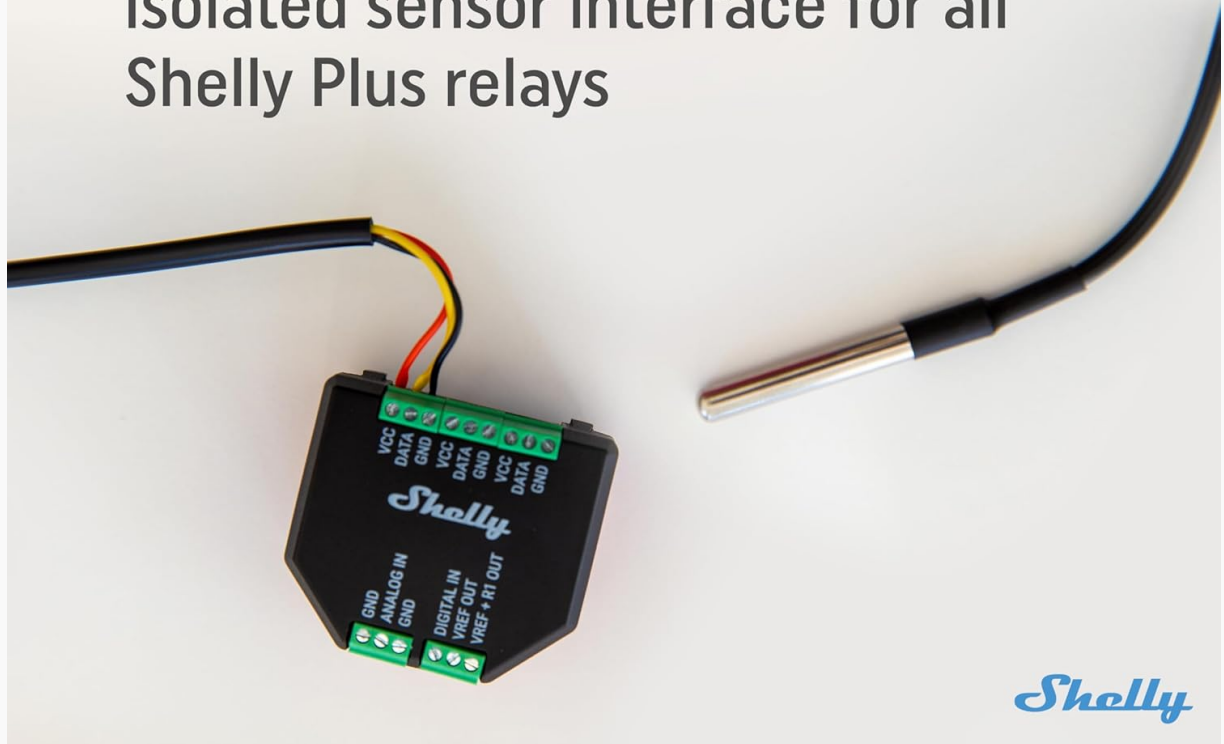


Image: Shelly Plus Add-On connected to a temperature probe, illustrating precise measurement capabilities.

6.2 Automation Scenarios

- **Smart Irrigation:** Combine with a soil moisture sensor to activate irrigation only when necessary, optimizing water usage.
- **Aquarium Temperature Control:** Use two DS18B20 sensors to monitor aquarium temperature and trigger heating/cooling systems via a connected Shelly Plus relay.
- **Garage Door Status:** Connect a reed-switch sensor to the digital input to monitor the open/closed state of your garage door.

Garage door **position**

- Connect a reed-switch sensor to Shelly Plus Addon's digital sensor
- Follow the state of your garage door

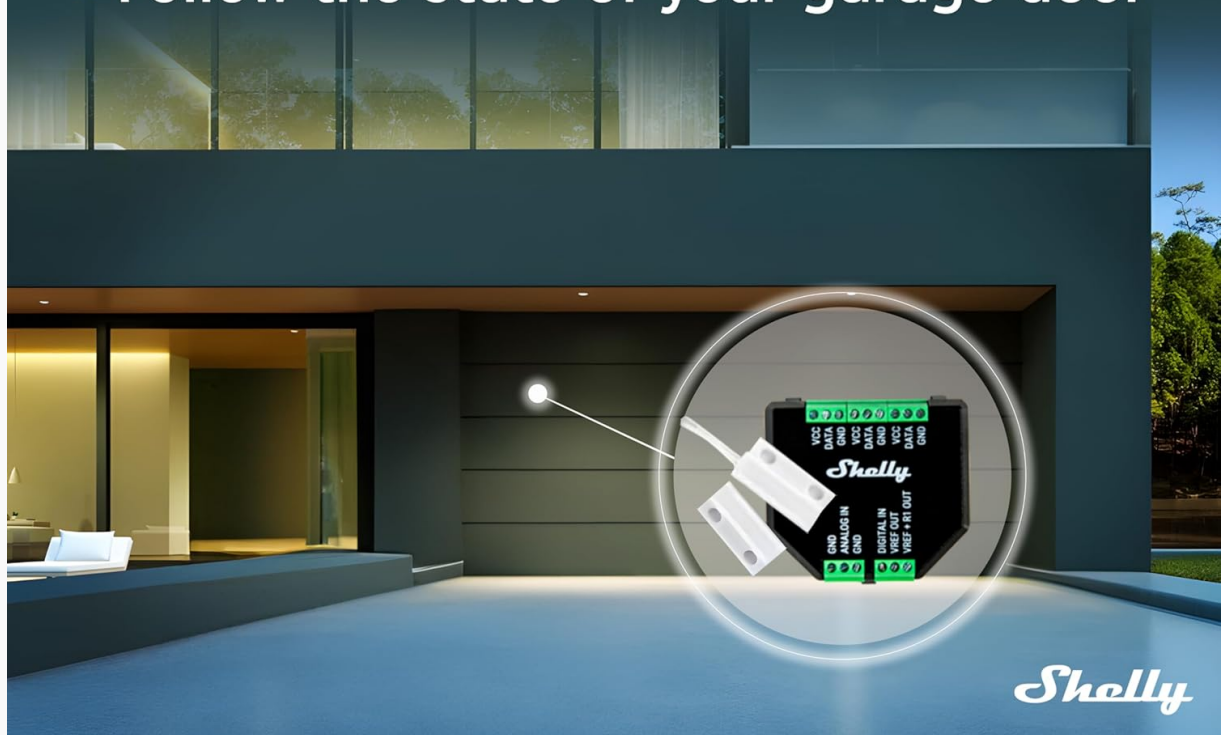


Image: Illustration of the Shelly Plus Add-On connected to a reed-switch sensor to monitor garage door position.

- **Motion-Activated Lighting:** Connect a PIR sensor to the digital input to automatically control lights in frequently used areas.

Control lights

- Shelly Plus Add-on can be connected to a PIR sensor to light up rooms that you occasionally use
- Entering the room, the light will come on for as long as you need



Image: An office setting where a Shelly Plus Add-On, connected to a PIR sensor, controls room lighting.

6.3 Smart Schedules

Utilize the Shelly Smart Control App to set up schedules and scenes based on sensor data. This allows for maintaining comfortable and healthy environments by automatically adjusting devices connected to your Shelly Plus relays.

Smart schedules

- Maintain a comfortable and healthy environment
- Control temperature and humidity



Image: A graphical representation of a smart home interface on a smartphone, demonstrating control over temperature and humidity through smart schedules.

7. MAINTENANCE

To ensure optimal performance and longevity of your Shelly Plus Add-On:

- Keep the device clean and free from dust. Use a dry, soft cloth for cleaning.
- Regularly check for firmware updates through the Shelly Smart Control App to benefit from new features and improvements.
- Ensure all sensor connections are secure and free from corrosion.

8. TROUBLESHOOTING

If you encounter issues with your Shelly Plus Add-On, consider the following:

- **Device not detected:** Ensure the Add-On is correctly seated on the Shelly Plus device and that the main device is powered on. Check the Shelly Plus device's manual for proper installation.
- **Sensor readings are incorrect or missing:** Verify that the sensors are correctly wired to the Add-On terminals. Check sensor specifications and ensure compatibility. Restart the Shelly Plus device.

- **Connectivity issues:** Ensure your Shelly Plus device has a stable Wi-Fi connection. Check your router and network settings.
- **App issues:** Ensure your Shelly Smart Control App is updated to the latest version. Try restarting the app or your mobile device.

For more detailed troubleshooting, refer to the Shelly support resources.

9. WARRANTY AND SUPPORT

Shelly provides a **3-year device warranty** for the Shelly Plus Add-On. For technical support, product specifications, guidelines, and community forums, please visit the official Shelly support page.





[Visit Shelly Support](#)





Image: QR code linking to the Shelly support page for easy access to assistance.

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Related Documents - Shelly Plus Add-On

	<p>Shelly Plus Add-on: User and Safety Guide for Sensor Interface</p> <p>Comprehensive user and safety guide for the Shelly Plus Add-on, a galvanically isolated sensor interface for Shelly Plus devices. Learn about installation, connections, specifications, and safety precautions.</p>
	<p>Shelly Plus Add-on User and Safety Guide</p> <p>Comprehensive user and safety guide for the Shelly Plus Add-on, detailing installation, specifications, and safe usage. Learn how to connect sensors and integrate with Shelly Plus devices.</p>
	<p>Shelly Plus Uni User and Safety Guide</p> <p>Comprehensive user and safety guide for the Shelly Plus Uni smart module, detailing its features, installation, specifications, and compliance. Learn how to safely connect and operate this versatile IoT device.</p>
	<p>Shelly Plus Add-on User and Safety Guide</p> <p>Comprehensive guide for the Shelly Plus Add-on, detailing installation, specifications, and safety precautions for connecting sensors and digital signals to Shelly Plus devices.</p>

	<p>Shelly Uni Universal Wi-Fi Sensor Input - User and Safety Guide</p> <p>User and safety guide for the Shelly Uni, a universal Wi-Fi sensor input and 2-channel solid-state switch. Learn about its features, wiring, specifications, and safety precautions for smart home integration.</p>
	<p>Shelly Plus UNI WiFi General Purpose Controller User Manual</p> <p>Comprehensive user manual for the Shelly Plus UNI WiFi general-purpose controller, detailing its features, installation, safety guidelines, and technical specifications. Learn how to connect sensors, control appliances, and integrate with smart home systems.</p>