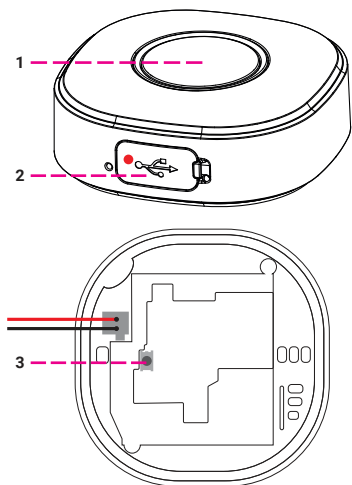# Shelly® button1

WiFi BUTTON SWITCH USER GUIDE

LEGEND
1. Button
2. USB port
3. Reset button

The WiFi battery operated button switch, Shelly Button1 may send commands for control of other devices, over the Internet. You can place it anywhere, and move it at any time. Shelly may work as a standalone Device or as an accessory to another home automation controller.

Specification

Power supply(charger)*: 1A/5V DC
Complies with EU standards:
• RE Directive 2014/53/EU
• LVD 2014/35/EU
• EMC 2004/108/WE
• RoHS2 2011/65/UE
Working temperature: −20°C up to 40°C
Radio signal power: 1mW
Radio protocol: WiFi 802.11 b/g/n
Frequency: 2400 − 2500 MHz;
Operational range (depending on local construction):
• up to 30 m outdoors
• up to 15 m indoors
Dimensions (HxWxL): 45,5 x 45,5 x 17 mm
Electrical consumption: < 1 W

*Charger not included

Technical Information

• Control through WiFi from a mobile phone, PC, automation system or any other Device supporting HTTP and/or UDP protocol.
• Microprocessor management.
CAUTION! When the device is connected to a charger, it is also constantly active and sends the command immediately.
CAUTION! Do not allow children to play with the button/switch of the Device. Keep the Devices for remote control of Shelly (mobile phones, tablets, PCs) away from children.

Introduction to Shelly®

Shelly® is a family of innovative Devices, which allow remote control of electric appliances through mobile phone, PC or home automation system. Shelly® uses WiFi to connect to the devices controlling it. They can be in the same WiFi network or they can use remote access (through the Internet). Shelly® may work standalone, without being managed by a home automation controller, in the local WiFi network, as well as through a cloud service, from everywhere the User has Internet access.

Shelly® has an integrated web server, through which the User may adjust, control and monitor the Device. Shelly® has two WiFi modes - access Point (AP) and Client Mode (CM). To operate in Client Mode, a WiFi router must be located within the range of the Device. Shelly® devices can communicate directly with other WiFi devices through HTTP protocol.
An API can be provided by the Manufacturer. Shelly® devices may be available for monitor and control even if the User is outside the range of the local WiFi network, as long as the WiFi router is connected to the Internet. The cloud function could be used, which is activated through the web server of the Device or through the settings in the Shelly Cloud mobile application.
The User can register and access Shelly Cloud, using either Android or iOS mobile applications, or any internet browser and the web site: **https://my.Shelly.cloud/.**

Installation Instructions

CAUTION! Danger of electrocution. Keep the device away from moisture and any liquids! The device should not be used in areas with high humidity.
CAUTION! Danger of electrocution. Even when the Device is turned off, it is possible to have voltage across its clamps. Every change in the connection of the clamps has to be done after ensuring all local power is powered off/disconnected.
CAUTION! Before using the device please read the accompanying documentation carefully and completely. Failure to follow recommended procedures could lead to malfunction, danger to your life or violation of the law. Allterco Robotics is not responsible for any loss or damage in case of incorrect installation or operation of this Device.
CAUTION! Use the Device only with power grid and appliances which comply with all applicable regulations. short circuit in the power grid or any appliance connected to the Device may damage the Device.
RECOMMENDATION! The Device may be connected (wirelessly) to and may control electric circuits and appliances. Proceed with caution! Irresponsible attitude could lead to malfunction, danger to your life or violation of the law.

In order to add the device to your WiFi network, please connect it to a charger first. Upon connecting it to a charger, the device will create a WiFi Access Point.

For more information about the Bridge, please visit:
http://shelly-api-docs.shelly.cloud/#shelly-family-overview or contact us at: **developers@shelly.cloud**
You may choose if you want to use Shelly with the Shelly Cloud mobile application and Shelly Cloud service. You can also familiarize yourself with the instructions for Management and Control through the embedded Web interface.

Control your home with your voice

All Shelly devices are compatible with Amazon Echo and Google Home. Please see our step-by-step guide on:
https://shelly.cloud/compatibility/Alexa
https://shelly.cloud/compatibility/Assistant

Shelly Cloud gives you opportunity to control and adjust all Shelly® Devices from anywhere in the world. You only need an internet connection and our mobile application, installed on your smartphone or tablet. To install the application please visit Google Play (Android - left screenshot) or App Store (iOS - right screenshot) and install the Shelly Cloud app.
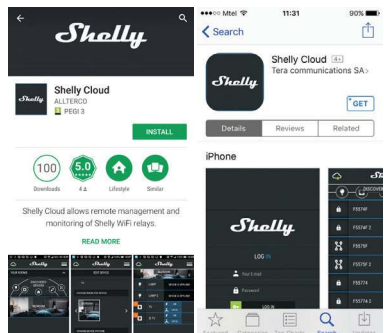
Registration

The first time you load the Shelly Cloud mobile app, you have to create an account which can manage all your Shelly® devices.

Forgotten Password

In case you forget or lose your password, just enter the e-mail address you have used in your registration. You will then receive instructions to change your password.
WARNING! Be careful when you type your e-mail address during the registration, as it will be used in case you forget your password.

First steps

After registering, create your first room (or rooms), where you are going to add and use your Shelly devices.
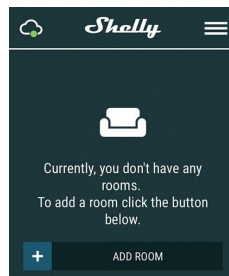
Shelly Cloud gives you opportunity to create scenes for automatic turning on or off of the Devices at predefined hours or based on other parameters like temperature, humidity, light etc. (with available sensor in Shelly Cloud). Shelly Cloud allows easy control and monitoring using a mobile phone, tablet or PC.

Device Inclusion

To add a new Shelly device turn it on and follow the steps for Device inclusion.

Step 1
After the installation of Shelly following the Installation Instructions and the power is turned on, Shelly will create its own WiFi Access Point (AP).
WARNING! In case the Device has not created its own AP Wi-Fi network with SSID like **shellybutton1-35FA58**, please check if the Device is connected accordingly to the Installation Instructions. If you still do not see an active Wi-Fi network with SSID like **shellybutton1-35FA58** or you want to add the Device to another Wi-Fi network, reset the Device. You will need to remove the back cover of the Device. The reset button is below the battery. Carefully move the battery and hold the reset button for 10 seconds. Shelly should return to AP mode. If not, please repeat or contact our customer support at **support@Shelly.cloud**
Step 2
Choose "Add Device".
In order to add more Devices later, use the app menu

at the top right corner of the main screen and click "Add Device". Type the name (SSID) and password for the WiFi network, to which you want to add the Device.

Step 3
**If using iOS:** you will see the following screen:

Press the home button of your iPhone/iPad/iPod. Open Settings > WiFi and connect to the WiFi network created by Shelly, e.g. **shellybutton1-35FA58**.
If using Android: your phone/tablet will automatically scan and include all new Shelly Devices in the WiFi network that you are connected to.

Upon successful Device Inclusion to the WiFi network you will see the following pop-up:
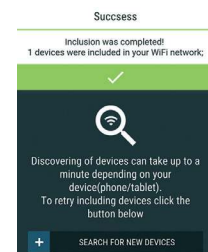
Step 4:
Approximately 30 seconds after discovery of any new Devices on the local WiFi network, a list will be displayed by default in the "Discovered Devices" room.

Step 5:
Enter Discovered Devices and choose the Device you want to include in your account.

Step 6:
Enter a name for the Device (in the Device Name field). Choose a Room, in which the Device has to be positioned. You can choose an icon or add a picture to make it easier to recognize. Press "Save Device".
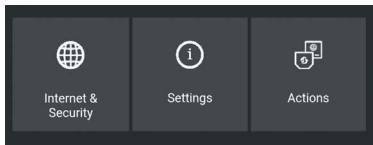
Step 7:
To enable connection to the Shelly Cloud service for remote control and monitoring of the Device, press "YES" on the following pop-up.
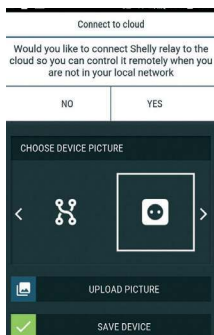
Shelly Device Settings
After your Shelly device is included in the app, you can control it, change its settings and automate the way it works. To enter at the details menu of the respective Device, simply click on it's name. From the details menu you may control the Device, as well as edit its appearance and settings.

Internet/Security
WiFi Mode - Client: Allows the device to connect to an available WiFi network. After typing the details in the respective fields, press Connect.
WiFi Client Backup: Allows the device to connect to an available WiFi network, as a secondary (backup), if your primary WiFi network becomes unavailable. After typing the details in the respective fields, press Set.
WiFi Mode - Acess Point: Configure Shelly to create a Wi-Fi Access point. After typing the details in the respective fields, press Create Access Point.
Cloud: Enable or Disable connection to the Cloud service.
Restrict Login: Restrict the web interface of Shelly with a Username and Password. After typing the

details in the respective fields, press Restrict Shelly.
Actions
Shelly Button1 may send commands for control of other Shelly devices, by using a set of URL endpoints. All URL actions can be found at: https://shelly-api-docs.shelly.cloud/
• Button Short Press: To send a command to an URL, when the button is pressed once.
• Button Long Press: To send a command to an URL, when the button is pressed and hold.
• Button 2x Short Press: To send a command to an URL, when the button is pressed two times.
• Button 3x Short Press: To send a command to an URL, when the button is pressed three times.

Settings
Longpush Duration
• Max - the maximum time, that the button is pressed and hold, in order to triger Longpush command. Range for max (in ms): 800-2000
Multipush
The maximum time, between pushes, when triggering a multipush action. Range: 200-2000
Firmware Update
Update the firmware of Shelly, when a new version is released.
Time Zone and Geo-location
Enable or Disable the automatic detection of Time Zone and Geo-location.
Factory Reset
Return Shelly to its factory default settings.
Device Reboot
Reboots the Device
Device Information
• Device ID - Unique ID of Shelly
• Device IP - The IP of Shelly in your Wi-Fi network
Edit Device
• Device Name
• Device Room
• Device Picture
When you are done, press **Save Device.**

The Embedded Web Interface
Even without the mobile app, Shelly can be set and controlled through a browser and WiFi connection of a mobile phone, tablet or PC.
Abbreviations Used:
• **Shelly-ID** – the unique name of the Device. It consists of 6 or more characters. It may include numbers and letters, for example 35FA58.
• **SSID** – the name of the WiFi network, created by the Device, for example shellybutton1-35FA58.
• **Access Point (AP)** – the mode in which the Device creates its own WiFi connection point with the respective name (SSID).
• **Client Mode (CM)** – the mode in which the Device is connected to another WiFi network.

Installation/Initial inclusion
Step 1
Install Shelly to the power grid following the schemes described above and place it into the console. After turning the power on Shelly will create its own WiFi network (AP).
WARNING! In case the Device has not created its' own AP WiFi network with SSID like **shellyix3-35FA58**, please check if the Device is connected accordingly to the Instalation Instructions. If you still do not see an active WiFi network with SSID like **shelly-ix3-35FA58** or you want to add the Device to another Wi-Fi network, reset the Device. You will need to have physicall access to the Device. Press and hold the reset button, for 10 seconds. After 5 seconds, the LED should start blinking fast, after 10 seconds it should blink faster. Release the button. Shelly should return to AP mode. If not, please repeat or contact our customer support at: support@Shelly.cloud
Step 2
When Shelly has created an own WiFi network (own AP), with name (SSID) such as **shellybutton1-35FA58**. Connect to it with your phone, tablet or PC.
Step 3
Type 192.168.33.1 into the address field of your browser to load the web interface of Shelly.
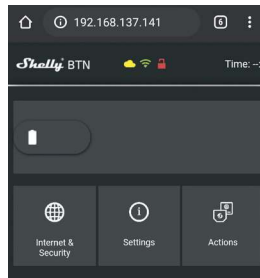
General - Home Page
This is the home page of the embedded web interface. Here you will see information about:
• Battery percentage

• Connection to Cloud
• Present time
• Settings

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Cloud: Enable or Disable connection to the Cloud service.
Restrict Login: Restrict the web interface of Shelly with a Username and Password. After typing the details in the respective fields, press Restrict Shelly.
SNTP Server: You can change the default SNTP server. Enter the address, and click Save.
Advanced - Developer Settings: Here you can change the action execution via CoAP (CoIOT) or via MQTT.
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•

Additional Information
The device is battery powered, with a "wake" and "sleep" mode.
The majority of the time Shelly Button will be in "sleep" mode when on battery power, to provide a longer battery life. When you press the button, it "wakes up", sends the command you need and it goes in "sleep" mode, to preserve power.
When the device is constantly connected to a charger, it sends the command immediately.
• When on battery power - the average latency is around **2 seconds**.
• When on USB power - the device is always connected, and there is no latency.

The reaction times of the device are dependent on internet connection and signal strength.

You can see the latest version of this User Guide in .PDF by scanning the QR code or you can find it in the User manual section of our website: https://shelly.cloud/support/user-manuals/

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