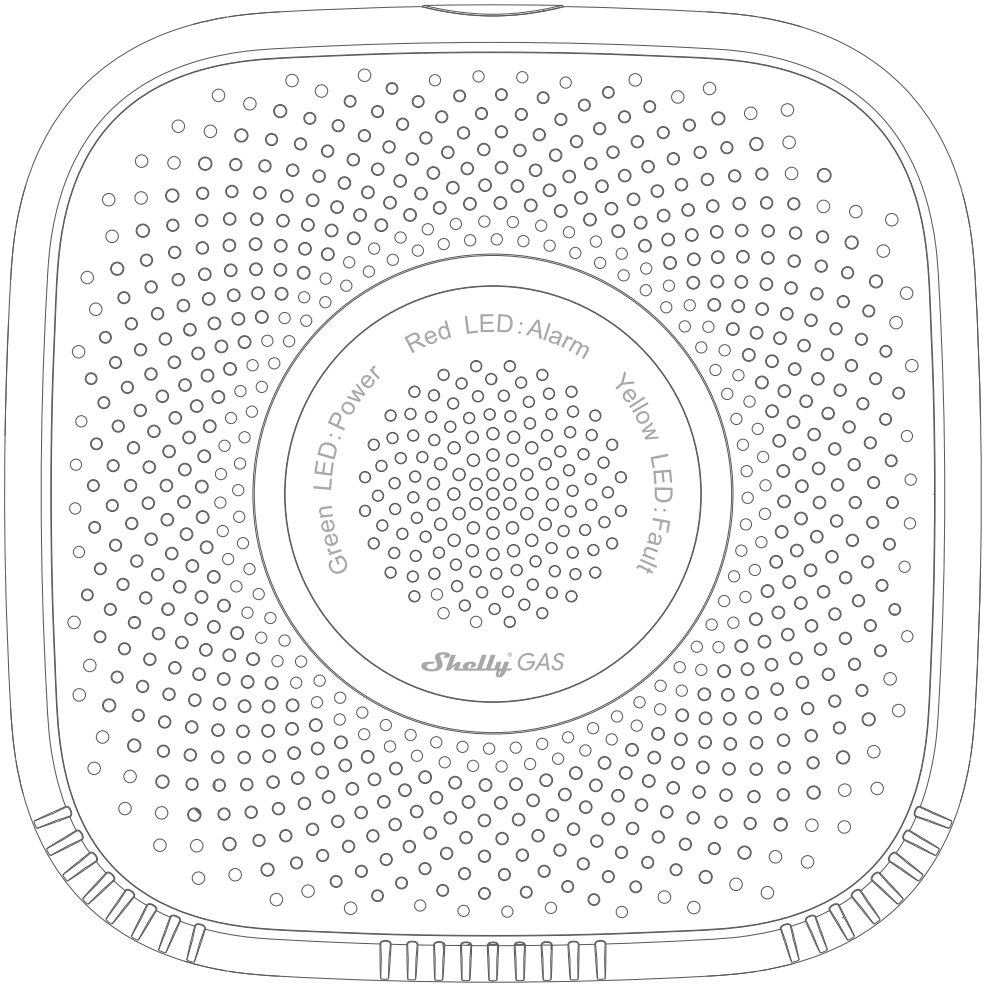
Shelly® GAS

The most innovative Wi-Fi combustible gas sensor



USER GUIDE

User guide

Shelly Gas by Allterco Robotics is intended to be placed, where combustible gas* is used in order to detect and alarm potential gas leakages in the room/area. Shelly Gas is powered directly from the grid. Shelly may work as a standalone device or as an accessory to a home automation controller.

* Shelly Gas comes in two variants - **Shelly Gas CNG** and **Shelly Gas LPG.** They are two separate products intended for different type of gas detection. If you are not sure about your Shelly Gas gas detection type is please check the markings on the back of the product.

Specification

Power supply: 110-230V ±10% 50/60Hz AC

Gas types detected:

• Shelly GAS CNG - compressed natural gas

• Shelly Gas LPG - liquefied petroleum gas

Complies with EU standards:

• RE Directive 2014/53/EU

• LVD 2014/35/EU

• EMC 2004/108/WE

• RoHS2 2011/65/UE

Working temperature: 0° ÷ 40 °C

Radio signal power: 1mW

Radio protocol: WiFi 802.11 b/g/n

Frequency: 2400 – 2500 MHz;

Operational range:

• up to 50 m outdoors

• up to 30 m indoors

Dimensions (HxWxL):

• Without plug - 90x90x38 mm

• With plug - 90x90x60 mm

Electrical consumption: < 1 W

Alarm Sound: 70dB (at 1m)

Wi-Fi LED states

- **STA mode with cloud connection** - static
- **STA mode without cloud connection** - static, blink each 5 sec
- **STA mode without interner connection** - static, blink each 3 sec
- **AP mode** - blink once per second

Sound alarms

- **Sensor warm up starts upon power on** - two short beeps per second.

- **Success of sensor warming up** - one long beep per second
- **Sensor fault** - long beep once per second until sensor is recovered from fault
- **Device self test** - three short beeps twice per second
- **Mild gas leak** - long beep once per second, until gas leakage is not present or if switching to “Heavy gas leak” mode
- **Heavy gas leak** - The device beeps for five seconds with one second pause until gas leakage is not present
- **Successful self test** - long beep once per second

Installation Instructions

!CAUTION - Before beginning the installation 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 which complies with all applicable regulations. Short circuit in the power grid may damage it.

!CAUTION - Do not allow children to play with the device, especially with the Power Button. Keep the devices for remote control of Shelly (mobile phones, tablets, PCs) away from children.

Initial Inclusion

Place Shelly into the power socket, in the room where you want to use it.

- For **CNG** gas detection the Shelly Gas CNG unit is best to be placed 0.3~1m below ceiling vertically and 1.5m away from the natural gas source.
- For **LPG** gas detection the Shelly Gas LPG unit is best to be placed 0.3m above floor, and within 1.5m from gas source.

The device will make a self test, and in the first 3 minutes the LED ring should turn in a sequence: green->orange->red. After the self test is finished, the LED ring should turn green and the WiFi LED should be blinking, once per second. This means that the device is calibrated and is in AP mode.

Factory Reset

You can return your Shelly Gas to its Factory Settings by pressing and holding the reset button for 10 seconds. Upon successful factory reset the WiFi LED will blink once per second.

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 (mobile phones, tablets etc.). They can be in the same WiFi network or they can use remote access (through the Internet - Shelly Cloud). Shelly® has an integrated web server, through which the User may adjust, control and monitor the Device. An API can be provided by the Manufacturer. The User can register and access the Shelly Cloud, using either Android or iOS mobile applications, or any internet browser and the web site: **https://my.shelly.cloud/.**

Control your home with your voice

All Shelly devices are compatible with Amazons' Alexa and Googles' assistant. Please see our step-by-step guides on:
https://shelly.cloud/compatibility/Alexa
https://shelly.cloud/compatibility/Assistant

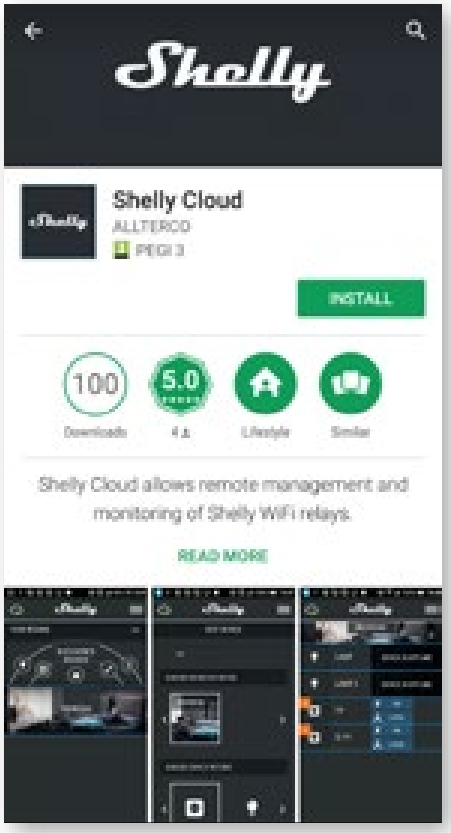
SHELLY® CLOUD MOBILE APPLICATION

Download on the App Store

GET IT ON Google Play

The Shelly Cloud mobile application

Shelly Cloud gives you opportunity to control and adjust all Shelly® devices from anywhere in the world. The only thing you need is connection to the Internet and our mobile application, installed on your smartphone or tablet. To install the application please visit Google Play or App Store.



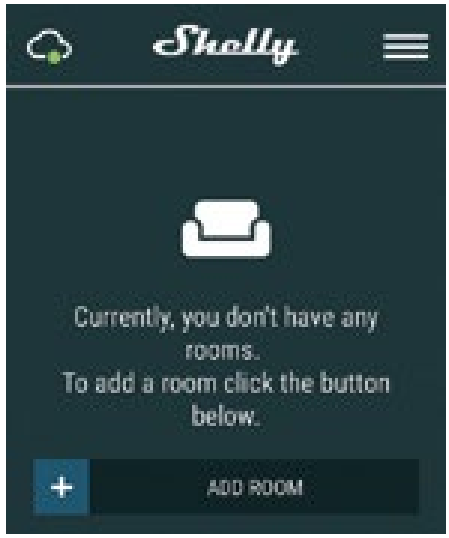
Registration

The first time you open 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 on how 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 forgot your password.



After registering, create your first room (or rooms), where you are going to add and use your Shelly devices. Shelly Cloud allows easy control and monitoring using a mobile phone, tablet or PC.

Device Inclusion

To add a new Shelly device, connect it to the power grid following the Installation Instructions included with the Device.

Step 1

Place your Shelly into the power socket, in the room where you want to use it. The WiFi LED should be blinking, once per second.

WARNING: If the WiFi LED is not blinking once per second, press and hold the reset button for at least 10 seconds. The WiFi LED should be blinking, once per second. 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 Menu at the top right corner of the main screen and click “Add Device”. Type the name and password for the WiFi network, to which you want to add Shelly.

Step 3

If using **iOS**: you will see the following screen(left):
On your iOS device open Settings > WiFi and connect to the WiFi network created by Shelly, e.g. ShellySmoke-35FA58.
If using **Android**: your phone will automatically scan(right) and include all new Shelly devices in the WiFi network, that you defined.

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:
Select Discovered Devices and choose the Shelly device you want to include in your account.

Step 6:
Enter a name for the Device. Choose a Room, in which the device has to be positioned. You can choose an icon or upload 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 devices 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 the details menu of the device, click on it's name. From there you may control the device, as well as edit its appearance and settings.

Self Test

Sensor Self Test - Make a self-test of the device.

Mute

Mute the device, when the alarm is on. You can not mute the device, if the alarm is not triggered.

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.**

Restrict Login

Restrict the web interface of Shely with a Username and Password. After typing the details in the respective fields, press **Restrict Shelly.**

Settings

Volume

Define the alarm volume level of the device, when the alarm is triggered. Possible range: 1 ~ 11.

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

Restart your Shelly 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 editing press **Save Device**.

THE EMBEDDED WEB INTERFACE

Even without the mobile app Shelly can be set and controlled through a browser and connection of a mobile phone or tablet.

Abbreviations used

- **Shelly-ID** – 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 **ShellyGas-35FA58.**
- **Access Point (AP)** – in this mode in Shelly creates its own WiFi network.
- **Client Mode (CM)** – in thismode in Shelly connects to another WiFi network.

Installation/Initial inclusion

Step 1

Place Shelly into the power socket, in the room where you want to use it. The device will make a self test, and in the first 3 minutes the LED ring should turn in a sequence: **green->orange->red**. After the self test is finished, the LED ring should turn green and the WiFi LED should be blinking, once per second. This means that the device is calibrated and is in AP mode.

CAUTION! If the WiFi LED is not blinking once per second, press and hold the reset button for at least 10 seconds. The WiFi LED should be blinking, once per second. If not, please repeat or contact our customer support at: **support@shelly.cloud**

Step 2

When WiFi LED is blinking once per second, Shelly has created a WiFi network, with name such as **ShellyGas-35FA58**. Connect to it.

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.

- Current alarm status
- Current PPM* count
- Connection to Cloud
- Present time
- Settings

* PPM - intensity of combustible gas in the area

Self test

Make a self-test of the device.

Mute

Mute the device, when the alarm is on. You can not mute the device, if the alarm is not triggered.

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word. 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)
- Via MQTT

Cloud

You can Activate/Deactivate the connection to Shelly Cloud.

ATTENTION! To reset the device, press and hold the Button for at least 10 seconds. Upon successful factory reset, Shelly will make a lond sound.

Settings

Time Zone and Geo-location

Enable or Disable the automatic detection of Time Zone and Geo-location. If Disabled you can define it manually.

Volume

Define the alarm volume level of the device, when the alarm is triggered. Possible range: 1 ~ 11.

Firmware Upgrade

Shows present firmware version. If a newer version is available, you can update your Shelly by clicking Upload to install it.

Factory reset

Return Shelly to its factory settings.

Device Reboot

Reboots the device.

Device Info

Shows your device ID. In Client Mode shows also your WiFi network name and WiFi signal strength.

Additional Features

Shelly allows control via HTTP from any other device, home automation controller, mobile app or server.

For more information about the REST control protocol, please visit **www.shelly.cloud** or send a request to **developers@shelly.cloud**.

Warnings and safety information
All information regarding the use of the product can be found in the user manual. Before using it, read its contents and follow the instructions contained therein.
Also read the following information before use:
Warnings for use
Hazard to children:
●The product is not intended for children and is not intended for play.
●The controls may contain small parts that pose a choking hazard.
●Keep the device out of the reach of children and ensure that they do not have access to any small parts.
Risk of electric shock:
●Control devices connected to the power supply should be installed by a qualified professional in accordance with the operating instructions.
●Ensure that the unit is disconnected from the power source before installation or maintenance.
●Use only original or manufacturer-recommended power supplies, cables and other components.
●Do not handle the equipment with wet hands to avoid electric shock.
Risk of damage to the equipment:
●Avoid installing the controls in areas exposed to moisture, extreme temperatures or direct sunlight unless they are rated for such conditions.
●Do not attempt to open or modify the control devices yourself to avoid damaging electronic components and voiding the warranty.
●Do not expose the devices to impacts, falls, strong shocks or other factors that may damage them.
Risk of misuse:
●Ensure that the control devices are used in accordance with their intended use and the manufacturer's recommendations.
●If the devices are integrated into a smart home system, ensure that they are correctly configured in the control application to avoid operating errors.
●For devices with built-in buttons, avoid excessive pressure that could damage the internal mechanisms.
Wireless connectivity
Data protection:
●Control devices often use Wi-Fi, Zigbee, Bluetooth or other communication technologies. Secure them with a password and, if possible, enable connection encryption to prevent unauthorised access.
●Regularly update the software of devices and associated control applications to protect data from unauthorised access.
●Avoid using public Wi-Fi networks to manage control devices to increase data security.
Access management:
●Restrict access to applications and control devices to trusted users only.
●Regularly review the list of devices connected to the system and remove those that are no longer in use or may pose a potential threat.
●For devices with remote control functionality, use the notification function for unauthorised access attempts where possible.
Information on correct use
Installation and configuration:
●Before installation, ensure that the control device is compatible with the system in which it is to operate and with other devices in the smart home network.
●If the device needs to be installed in a wall, make sure the installation location is dry, safe and in accordance with the operating instructions.
●Check that the devices are mounted in a location that provides a stable connection to the network.
Maintenance and cleaning:
●Regularly check the control devices for visible damage, such as cracks in the housing, damaged wires or dirty contacts.
●Clean the devices with a soft, dry cloth. Do not use water or chemicals that may damage their electronics.
●For battery-powered devices, regularly check the condition of the batteries and replace them according to the manufacturer's recommendations.
●For battery-powered devices, regularly check the charge level and charge them according to the manufacturer's recommendations.
Safety of use:
●If the device operates unstably (e.g. flashing indicators, unresponsive to commands), immediately disconnect it from the power supply and contact the manufacturer or service centre.
Additional precautions
Service and repair:
●If you have any problems with the unit, contact an authorised service centre.
●Do not attempt to repair the controls yourself to avoid further damage or loss of warranty.
Safe disposal:
●Dispose of used devices in accordance with local electronic waste regulations.
●Do not dispose of the device in municipal waste - take it to an electronics collection point.
If you require any further information about the product, please contact customer service (e-mail: hurt@innpro.pl, website: https://innpro.pl/) or any other specialist.

EU REP
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