

SL-DG01

EN

Wi-Fi Gas Detector Smart Life

► User manual



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Product Description

The Wi-Fi gas leakage detector is using for the detection of fire that may happen or have happened. It adopts semi-conductor gas sensor, with high stability and sensitivity and many other functions. It is a micro-innovation on the basis of traditional gas sensor technology. Beside, it provides a new cloud system service by working with Tuya cloud platform that can not only be used for traditional fire protection system, but also a precaution of gas leakage. The detector provides live sound and light alarms, also inform alarm situation via Wi-Fi network. It is applicable for kitchens and the indoor area with potentiality of gas leakage.

Electrical Specifications

1. Working Voltage: AC100-240V 50/60 Hz
2. Average Consumption: <2W
3. Alarm Sound: 75dB/m
4. Alarm Density: 6%LEL±3%LEL(natural gas)
5. Networking: WiFi2.4G – 802.11 b/g/n
6. Control Output: Solenoid valve output(12V/100Kpa)
7. Alarm Output: Relay output NC/NO optional (Default NC)
8. Working Environment: -10°C ~+50°C
9. Working Humidity: 10%~95% RH

Appearance Instruction



- Green LED: Power/ WiFi Status
- Button: Test /Reset Button
- Yellow LED: Fault
- Red LED: Alarm
- Buzzer: Alarm Buzzer

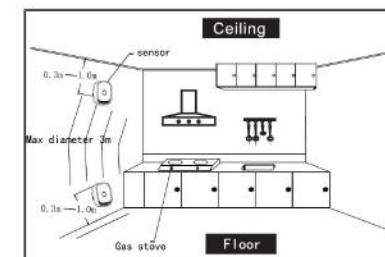
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Warm Prompt

1. The shell surface has a slight fever when working in the normal condition.
2. Please remove the detector while house decoration.
3. Avoid spraying aerosol around the sensor.
4. Oil adhesion on the inlet and outlet may affect the sensitivity of gas detector. Clean the detector every 3 months with detergent(based on specific oil). Do not let detergent enter the internal of it. Remember to retest it after the clean.
5. The semi-conductor of the detector have 5-year lifetime, please replace detector timely.
6. Please do not use lighter to do the test, avoid to damage the gas sensor.
7. For your safety, please use detector properly, be vigilant to prevent occurrence of danger.

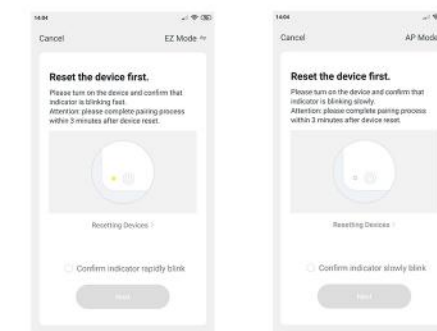
Functional Diagram

Before the installation, please confirm the density of the detecting gas is heavier or lighter than air. If the detecting gas is heavier than air: like LPG., etc, install 0.3-1m higher than the floor, in a 1.5m radius around the gas source. If the detecting gas is lighter than air: like natural gas, manufactured gas, marsh gas., etc, install 0.3-1m lower than the ceiling, in a 1.5m radius around the gas source.



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The green LED flashes fast indicates that it is in EZ mode configuration mode. If the green LED flashes slowly, it indicates it is in the AP configuration mode. There are two modes displays in the APP interface which can be switched to each other before configuration start. As below:



Input the Wi-Fi SSID and password according to the APP prompt to start the connection, wait about 60 seconds to complete the device's network configuration and its connection to the Tuya cloud server, synchronization with the APP. It will jump to the APP operation and monitoring interface directly when the device add completely. You can modify the device name or share the device to other people through the APP directly. The device operation interface can see its status, alarm, offline and alarm release, etc., check history records and other setting options.

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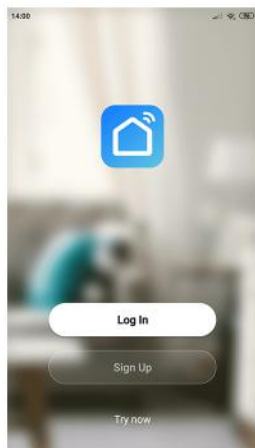
APP Instruction

1. Download "smart life" APP

Search "smart life" in application market to download and install the APP.

2. Registration

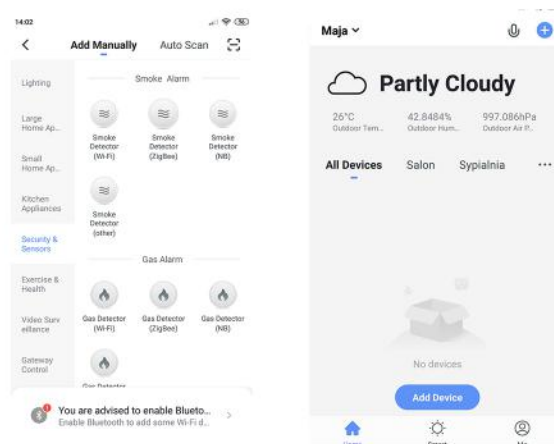
Click the APP and register an account according to the wizard.



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3. Add Or Delete Devices

Click the APP and log in, click Add Device --> Security Sensor --> Sensor (Wi-Fi)



Power on the detector, the buzzer "beep" one time, circuit enter into preheating state. The yellow LED flashes 1 time per second for 3 minutes and enter into normal working status. Please do not test gas when the detector is preheating. The green LED will keeps on flashing if the detector doesn't connect to the cloud server. Press "Test/Reset" button in the detector, and hold on 5 seconds to enter into Wi-Fi configuration state.

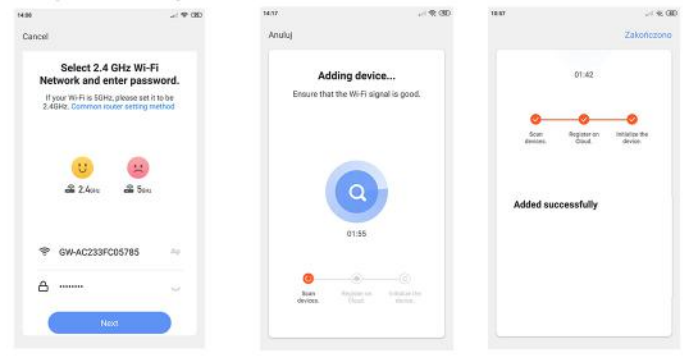
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Remarks:
Ensure the device and APP work under the same Wi-Fi network to make sure the validity of the device which is set through EZ mode or AP mode, then the device information recognized by the APP is valid. When the EZ mode does not work due to the Wi-Fi network condition, choose AP mode to complete the configuration.

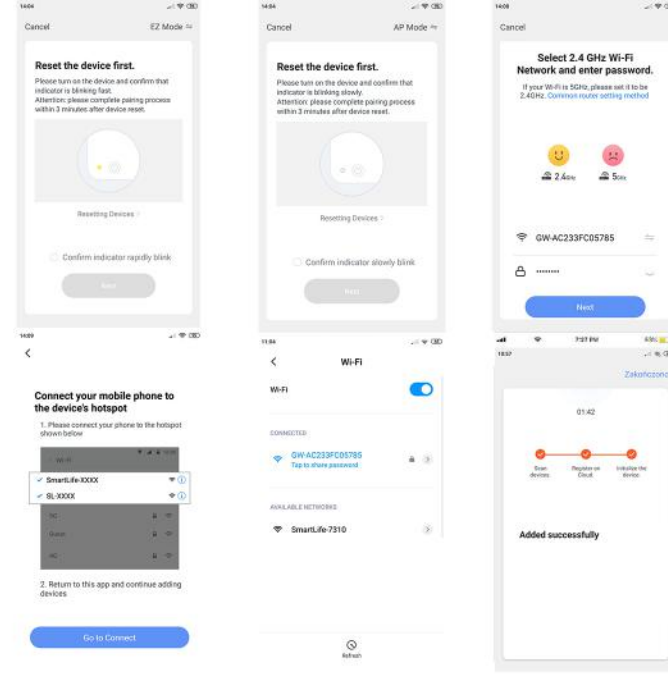
EZ Mode

When configuring in EZ mode, make sure that the Wi-Fi network connect to the Internet normally, then ensure the APP and the device work in the same Wi-Fi network. Input the SSID and password to connect the device with cloud server to accomplish the configuration. If need to use different Wi-Fi network, choose "Change network" through the APP.



AP mode

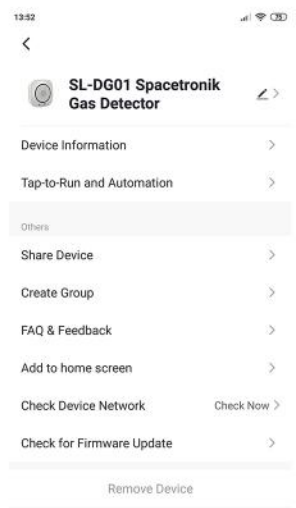
When configuring in AP mode, make sure that the Wi-Fi network connect to the internet normally, then ensure the APP and the device work in the same Wi-Fi network. Input the SSID and password, the device use to run the APP (mobile or tablet) connect to the Wi-Fi network "SmartLife-xxxx" in the AP mode (select by the Wi-Fi Network list), it will return to the APP when connect successfully and complete the configuration automatically.



When the device is added to the Tuya smart user account, the LED goes out, the APP jumps to the operation interface, indicates that the device is added successfully. If not succeed, repeat the steps until add it successfully.

Delete Device

Select the "Edit" icon to enter into the operation interface. Click "Remove device" to delete it.



Gas Leakage Detection Alarm

When the detector detects the concentration reaches the preset gas degree, red led flashes, solenoid output, relay output and displays different status according to the states. The alarm data is pushed to the cloud server, the cloud server pushes the alarm information to the APP simultaneously. The APP interface displays as below:

Other Operations

Other operations of the device and APP, please pay attention to the design and updates of the APP and the device.

Light State & Product Test

State	Color	Light	Alarm sound
Power	Green	Normally on	No
Alarm	Red	Flashing	"di"alarm
Malfunction	Yellow	Normally on	Long buzzing

Test button of this detector is used for test if the LED indicator, buzzer, relay, and solenoid valve can work properly. Press button shortly, all the LED flashes alternately, buzzer alarms, solenoid and relay output. Repress the button to exit the test mode. The test lasts 30 seconds, then exit the test mode automatically. There is self test function in the APP to accomplish the test for your choice.
Notice: The green LED will flash if not connect to the network cloud succeed.

Wiring Instructions

SIG- : Solenoid valve negative electrode
SIG+ : Solenoid valve positive electrode
Out 1/Out2: Relay NC(NO)/COM
AC power: AC100V-240V input



Frequency band: 2412 – 2472 Mhz
Maximum radio-frequency power: 17 dBm

Hereby DMTrade Mikolaj Tomaszewski declares under our sole responsibility that the product SL-DG01 is in conformity with following directives: RED (2014/53/EU), RoHS (2011/65/EU + 2015/863/EU). Full document (declaration of conformity) is available for download from www.dntrade.pl.

The WEEE symbol (the crossed-out wheeled bin) using indicates that this product is not home waste. Appropriate waste management aids in avoiding consequences which are harmful for people and environment and result from dangerous materials used in the device, as well as improper storage and processing. Segregated household waste collection aids recycle materials and components of which the device was made. In order to get detailed information about recycling this product please contact your retailer or a local authority.

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