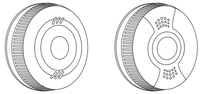
WiFi+RF Interconnected Smoke Detector User's Manual

Model: S100A-CR-W



Model: S100B-CR-W Model: S100C-CR-W

PLEASE READ CAREFULLY AND SAVE!

1. Introduction

The WiFi+RF Interconnected Smoke Detector is produced by using infrared photoelectric sensor with special structure design, reliable MCU, and SMT chip processing technology. It is characterized by high sensitivity, stability and reliability, low power consumption, beauty, durability, and easy-to-use. It is suitable for smoke detection in factories, homes, stores, machine rooms, warehouses and other places. It is not suitable for use in the following places:
(1) Places with smoke retention under normal conditions.
(2) Places with heavy dust, water mist, steam, oil mist pollution and corrosive gas.
(3) Places with relative humidity greater than 95%.
(4) Places with ventilation speed greater than 5m/s.
(5) The product cannot be installed in the corner of the building.

2. Product Introduction

The alarm adopts a photoelectric sensor with a special structure design and a reliable MCU, which can effectively detect the smoke generated in the initial smoldering stage or after the fire. When the smoke enters the alarm, the light source will produce scattered light, and the receiving element will feel the light intensity (there is a certain linear relationship between the received light intensity and the smoke concentration). The alarm will continuously collect, analyze and judge the field parameters. When it is confirmed that the light intensity of the field data reaches the predetermined threshold, the red LED light will light up and the buzzer will start to alarm.
When the smoke disappears, the alarm will automatically return to the normal working state.

3. Technical Parameters

Decibel: >85dB(3m)	Working voltage: DC3V
Static current: ≤25uA	Alarm current: ≤300mA
Low battery: 2.6+-0.1V (<2.6V WiFi disconnected)	Operation temperature: -10℃~-55℃
Relative Humidity: ≤95%RH (40℃±2℃,Non-condensing)	The failure of the three indicator lights does not affect the normal use of the alarm
Alarm LED light: Red WiFi LED Light: Blue RF Wireless LED Light: Green	Output form: Audible and Visual alarm
	RF mode: FSK
RF FREQ: 433.92MHz	WiFi: 2.4GHz
RF Distance: Open sky ≤100 meters	Battery life about 10 years (There may be differences due to different usage environments)
RF Indoor ≤50 meters (according to the environment)	
RF wireless devices support up to 30 pieces	Silent time: About 15 minutes
Standard: EN 14604:2005 EN 14604:2005/AC:2008	APP: Tuya / Smart Life
	N.W: 139g (Contains battery)

4. Download the App

1. ISO iPhone: Download "Smart Life" from Google Play.
2. Android: Download "Smart Life" from app store.
3. Open the Smart Life app and create a new account.
4. Register and log in.

Scan to download the app

Create a new account

5. Connection instruction

1. Press the switch button, you will hear the sound and light reaction. Waiting for 30 seconds before doing the following operations.
2. Make sure your smartphone connects to the WIFI (only 2.4GHz WIFI is supported) and turn on Bluetooth.

1) Contact Sensor(WiFi)

1. Press and hold the RESET button for 3-5 seconds until the Blue light is flashing quickly (Figure 2) .

2. Click "+" in the upper right to Add Device.

3. You will see the devices are ready to connect.

4. Click"Add"--Enter wifi and password—"Next"---"Done".

2) Notification setting

1. Click "me" in the lower right corner.
Click "⚙" in the upright corner and turn on "Touch Tone on Pacnel".
Click "App Notification" and turn on "Device Alert".
Click phone "Setting" -- Notification -- smart life -- "Allow notification".

3) Sharing Device

1. You can share the smart smoke detector with your family, they will receive the notification too:
2. Click "⤴" in the upper right of the device interface.
3. Click "Share Device" -- "Add Share" -- "Share with the account" -- enter the accounts you want to share with -- "Done".

6. RF Create a group in the first use (i.e. 1/2)

Take any two alarms that need to be set up as groups and number them as " 1" and " 2" respectively.
1. Devices must work with the same frequency.
2. The distance between the two devices is about 30-50CM.
3.Make sure the smoke detector remains powered on before pairing the smoke detectors with each other. If there is no power, please press the power switch once, after hearing the sound and seeing the light, wait for 30 seconds before pairing.
4. Press the "RESET button" three times, the green LED lights up means it is in networking mode.
5. Press the "RESET button" of 1 or 2 again, you will hear three "Dl" sounds, which means the connection starts.
6. The green LED of 1 and 2 flashing three times slowly, which means that the connection is successful.

[Notes and Notices]
1. RESET button. (Figure 1)
2. Green light.
3. Complete the connection within one minute. If exceeds one minute, the product identifies as timeout, you need to re-connect.

Figure 1

7. Added more alarms to Group (3 - N)

1. Take the 3 (or N) alarm.
2. Press the "RESET button" three times.
3. Select any alarm (1 or 2) that has been set up in a group, press the "RESET button" of 1 and wait for the connection after three "Dl" sounds.
4. The new alarms' green led flashing three times slowly, the device is successfully connected to 1.
5. Repeat the above steps to add more devices.

[Notes and Notices]
1. If there are many alarms to be added, please add them in batches(8-9 pcs in one batch), otherwise, network failure due to the time exceeding one minute.
2. Maximum 30 devices in a group.

8. Exit the group

Press the "RESET button" twice quickly, after the green LED flashes twice, press and hold the "RESET button" until the green light flashes quickly, meaning it has successfully exited the group.

9. The state of LED in RF connection

1. Powered on the device which was successfully connected: two "Dl" sounds the green light flashes three times.
2. Powered on the device which wasn' t connected: two "Dl" sounds the green light flashes once.
3. Connecting: the green on.
4. Exited connection: the green light flashes six times.
5. Successful connection: the green light flashes slowly three times.
6. Connection time-out exits: the green light off.

10. Description of interconnected smoke silencing

1. Press the TEST/HUSH button of host, the host and extension silencing together. When there are multiple hosts, they can't mute each other, you can only manually press the TEST/HUSH button to make them silent.
2. When the host is alarming, all the extensions will alarm too.
3. When press the APP hush or remote control hush button, only the extensions will be silent.
4. Press the TEST/HUSH button of extensions, all extensions will silence (The host still alarming means fire in that room).
5. When smoke is detected by extension during the silencing period, the extension will be automatically upgraded to the host, and other paired devices will alarm.

11. LED lights and buzzer status

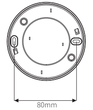
Operating state	TEST/HUSH button (host)	RESET button	RF Green indicator light (bottom)	buzzer	Red indicator light (front)
Not connected, when powered on	/	/	Lights once and then off	Dl Dl	On for 1 second and then off
After interconnection, when powered on	/	/	Flash slowly for three times and then off	Dl Dl	On for 1 second and then off
Pairing	/	30 seconds after the battery is installed, press three times quickly	Always on	/	/
	/	Press again on other alarms	No signal, always on	Alarm three times	And then off
Check whether the network is connected	/	Press three times quickly	Long bright, no interconnection	/	/
	/		Long bright, flash slowly for three times and then off		
Delete a single interconnection		Press two times quickly, then hold	Flash twice, flash six times, and then off	/	/
Self-check test after interconnection	Press it once	/	/	Alarm about 15 seconds and then stop	Flashing about 15 seconds and then off
How to silence if alarming	Press host	/	/	All devices are silent	The light follows the host state
	Press extension	/	/	All the extensions are silent. The host keeps alarming	The light follows the host state

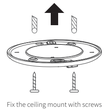
12. Installation and Test

For general places, when the space height is less than 6m, the alarm with a protection area of 60m. The alarm shall be mounted on the ceiling.
1. Remove the ceiling mount.

Rotate the alarm anticlockwise out of the ceiling mount

2. Drill two holes with a spacing of 80mm on the ceiling with a suitable drill, and then stick the included anchors in the holes and mount the ceiling install with both screws.

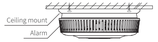




Fix the ceiling mount with screws

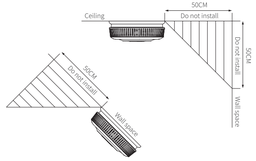
3. Press the TEST / HUSH button, all paired smoke detectors will alarm and LED flash, and the APP will receive the notification. If not: Please check the power switch is ON or not, the battery voltage is too low (less than 2.6V ±0.1V) or smoke detectors not paired successfully.
4. After testing, simply screw the detector in the ceiling mount until you hear a "click".

Turn the alarm clockwise until you hear a "click"



13. Installation instructions

The alarm can be installed on the ceiling or tilted. If it is to be installed on sloping or diamond-shaped roofs, the tilt Angle should not be greater than 45° and a distance of 50cm is preferable.



Slanting installation Ceiling installation

14. Operation instructions

1. Normal state: The red LED lights up once every 56 seconds.
2. Fault state: When the battery is less than 2.6V ± 0.1V, the red LED lights up once every 56 seconds, and the alarm emits a "Dl" sound, indicating that the battery is low.
3. Alarm status: When the smoke concentration reaches the alarm value, the red LED light flashes and the all the smoke alarms(was connected) will alarm and phone will get notification.
4. Self-check status: The alarm shall be self-checked regularly. When the button is pressed for about 1 second, the red LED light flashes and the alarm emits alarm sound and your phone receives a notification. After waiting for about 15 seconds, the alarm will automatically return to the normal working state.
5. Silence state: In the alarm state, press the Test/Hush button, and the alarm will enter the silence state, alarming will stop and the red LED light will flash. After the silencing state is maintained for about 15 minutes, the alarm will automatically exit the silencing state. If there is still smoke, it will alarm again.
Warning: The silencing function is a temporary measure taken when someone needs to smoke or other operations may trigger the alarm.

15. Common faults and solutions

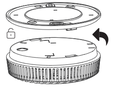
Fault	Cause analysis	Solutions
False alarm	There is a lot of smoke in the room or water vapor	1. Remove the alarm from ceiling mount. Reinstall after the smoke and steam are eliminated 2. Install the smoke alarm in a new location
A "Dl" sound	Battery is low	Replace the product.
No alarm Or emit "Dl" twice	Circuit failure	Discussing with supplier
No alarm when press Test/Hush button	The alarm and ceiling mount are not installed correctly	Simply screw the detector in the ceiling mount until you hear a "click"

16. Maintenance

Please contact the supplier as soon as possible in case of use failure during use, and do not disassemble and repair without permission to avoid accidents.

17. Low Battery

Low battery warning: When the product emits a "Dl" alarm sound and LED light flash every 56 seconds, it indicates that the battery will be depleted.
The low battery warning status can last about 30 days.
The product battery is non replaceable, so please replace the product as soon as possible.



Rotate the alarm anticlockwise out of the ceiling mount

18. Product maintenance

1. It is recommended to press the test button to test every month to check the alarm function of the smoke detector. If the smoke detector fails to alarm or has a delayed alarm, it needs to be replaced.
2. It is recommended to use the actual smoke test once a year. If the smoke detector fails to alarm or has a delayed alarm, it needs to be replaced.
3. It is recommended to remove the smoke detector once a year, turn off the power or then use a vacuum cleaner to clean the shell of the smoke detector.

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FCC Caution：

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.