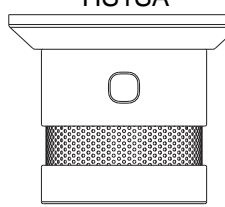


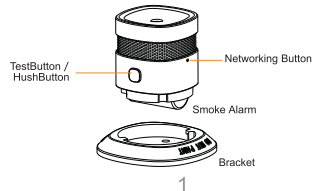
Smart Smoke Sensor

User Manual
HS1SA



*Please read the user manual carefully before operation. The guide picture is for reference only. Please in kind prevail.

This product is a smart photoelectric smoke sensor, with ultra-low-power ZigBee wireless network technology design. It is capable of real-time detecting the presence of smoke, once detect danger of fire smoke, red LED flashes rapidly and detectors sound alarm once detecting smoke fire danger, can alert you and your family timely. It can be widely used in household, lounge, coffee house, dancing hall any other places need fire alarm monitoring. Free tool installation, once stick once use.

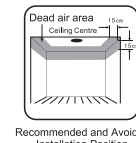
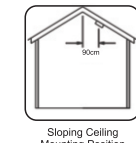


Technical

- Operating Voltage: DC3V (CR123A lithium battery)
- Static Current: $\leq 10\mu A$
- Alarm Current: $\leq 60mA$
- Alarm Indication: Red LED
- Sound Level: $\geq 80dB/3m$
- Networking Way: ZigBee Ad-Hoc Networking
- Distance Of Ad-Hoc Network $\geq 70m$ (open area)
- Working Temperature: $-10^{\circ}C \sim +50^{\circ}C$
- Working Humidity: $\leq 95\%RH$
- Dimension: $60 \times 60 \times 49.2mm$

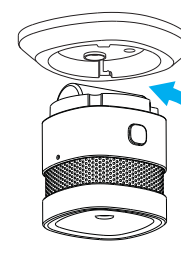
Installation

- Flat ceiling mounting**
The preferred location to install smoke sensor is in the centre of the ceiling, because smoke, heat and combustible products rise to ceiling and will laterally spread. Keep at least 30cm distance from lights or decorations, and at least 15 cm away from walls and corners.
- Sloping ceiling mounting**
If ceiling is sloping, please install the smoke sensor at horizontal distance 90cm away from the ceiling top.


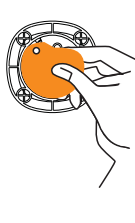
Installation

- Pls put smart hub into the center of alarm.
- Pls shorten the distance between smart hub and alarm.
- Pls reduce barriers between smart hub and alarms.
- Avoid installing in places with high noise area or high frequency interference, like places near from metal air conditioner, heater devices, current circuit breaker control box.
- Building materials with metal net or metal bar may reduce the wireless transmission distance, like reinforced concrete wall.
- Damping of the signal makes direct ratio with barrier, if the materials of the barrier is homogeneous.



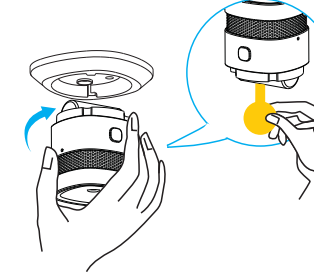
Installation

- Installation one: fixed the bracket into ceiling using screws.
- Installation two: remove the double-sided adhesive and stick alarm into ceiling.






Installation

- Remove the battery insulating strip to make detector on power, and clockwise rotating alarm into bracket.

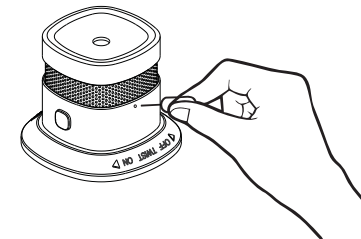


Networking



- Click  on the APP interface, and enter the networking mode. (Pls take user manual of smart hub for reference)

Networking



- Adding network: according to APP prompt, press the button for 2 seconds after the networking equipment, green flash, APP interface prompted, networking success.
- Disconnect network: press the networking button for 5 seconds to disconnect the network, after the green light flashes slowly for 3 seconds, which indicates network is disconnected successfully.

LED State and Alarm

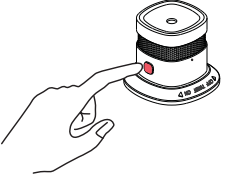
State	LED	Sound Alarm
Standby	red LED flash every 53 seconds	NO
Test	red LED flash quickly	rapid "Di-Di-Di"
Alarm	red LED flash quickly	rapid "Di-Di-Di"
Hush	red LED flash every 10 seconds	NO
Low Power	red LED flash one time	"Di" every 53 seconds
Fault	red LED flash twice every 53 seconds	"Di-Di" twice every 53 seconds

From 1

FAQ

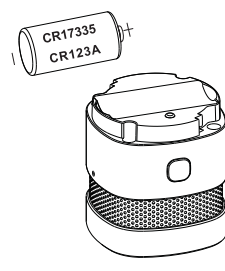
Phenomenon	Analysis	Treatment
Power on and alarm	There is large dust or vapour	power on after cleaning dust or vapour
Power on with about "Di-Di"	Low power	Change same battery
Buzzer do not alarm or small sound	Low power	Change same battery
Press test button but no alarm	power connect of battery, or battery polarity invert	Install battery and pay attention to battery polarity
Device off line	Low power	Change same battery
smart device too far away from smart hub	Low power	Change same battery
Alarm device not quit from network	3. Add repeater	2. Shorten distance between smart hub and smart device, press test button or power on again.
Networking failed	Alarm device not quit from network	Quit network test before networking
gateway do not enter network state	Make sure gateway under networking state	

Testing



Press and hold the test panel Test/Mute button for 3 seconds, as above picture shows, until alarm status (see status table). Testing is recommended to be done at least once a week. Do not use flame for testing. Once the alarm is sure to please pay attention.

Testing



- Please replace battery correctly, following the battery positive and negative electrode. Attention to environmental protection and dispose used battery properly.

Warning

- Do not install alarm devices in places with high temperature, high humidity, heavy oil fume, and keep nearby environment clean.
- Avoid install in places near from heavy oil paint, diluent or other colloid suspended solids, in case of any influence for normal detecting of alarm devices.
- This product is household usage smart smoke alarm, which can make sound and flash smart alarm when fire happens, but can not put out a fire.

Announcement
*The guide picture is for reference only. Please in kind prevail.
*Factory has had right for explanation if there is any inconsistency between practical use and user instruction, as technology is improving form time to time.

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.