User manual

wireless smoke detector
Model: WSDxxx

1. Description

The Smart Smoke Sensor is a wireless, battery-powered sensor to detect smoke. It can be used in commercial, industrial or residential buildings. Since there is nowire needed, it can be easily and simply installed on walls and ceilings.

The sensor has a photoelectric sensor embedded to sense the smoke a loud buzzer to generate sound alarm.

The sensor connects to Sigfox network. With this linkage, you can receive notification or check its status on Sigfox network when events occur. Therefore, you will be able to response by actions instantly toprotect your home and property.

With SensingTEKcloud system, you can set your desired triggerevent action to control the other SensingTEK Smart Peripheral when the smoke isdetected. For example, to trigger alarm or siren.

2. Features

• Photoelectric smoke alarm

• Removable smoke chamber for easy maintenance

• Automatic calibration and self-test

• Low battery and malfunction are under full supervision

• Manual test button helps to verify battery status and alarm operation

• Aesthetically appealing professional detector design

• Notification sent to smart phone or table when smoke detector alarm

• Easy to install, move and maintain

• Alarm mode - SensingTEK cloud system will link smoke detector with other devices suchas motion sensor. The smoke detector will alarm when motion sensor detectmoving objects

LED indicator

Test Button

3. Specification

Item	Description
RF Module	902.14MHz
Battery Power	Rating Voltage: DC 3V for Lithium battery
Battery type	CR123A
Smoke Sensitivity & Alarm Pattern UL217	1.31%/ft ~ 2.28%/ft ;Temporal Three Pattern
Smoke Sensitivity & Alarm Pattern EN 14604	0.105 dB/m ~ 0.156dB/m ;Temporal Three Pattern
Smoke Sensitivity UL268	Recognized component
Current drain	Standby: MAX 15uA/SD360, MAX 10uA/RF module
	Start: MAX 3.5mA
	Alarm: MAX 100 mA/SD360, MAX 60mA/RF module
I/O	Action button for Pairing, self test
	LED indicator for sending, alarm, and warning
indoor/Outdoor	indoor
Sigfox Transmission range	25km for open space
Operating Temperature	0 ~ 40ºC
Operating Humidity	10% ~ 85% RH
Self-test	yes
Dimension	120(Diameter) x 53 mm

4. LED status

| `	LED status
Sigfoxnetwork status	**Blue LED** **1.** Blinking : Power ON **2.** LED OFF: Standby Mode **3.** Flash once: Send alarm signal.
Test mode	After pressing test button for around 1 second, the buzzer sounds and **Red LED** flashes continuously
Smoke Alarm Mode	When smoke detector senses smoke, the buzzersounds an audible alarm with 3 beeps, pause 1.5 seconds, then 3 beeps.The **Red LED** will flash continuously and rapidly
Low battery	Buzzer chirps once in 43 seconds with **Yellow LED** flashing
Tamper	When bracket is removed from detector, the **YellowLED** is steadily on and buzzer sounds temporarily until the detector is mounted back to the bracket. The detector will be also alarmed if the detector is not mounted in the bracket within 3 minutes untilthe bracket is mounted

5. Accessories

• One CR123A battery
  • Two screws
  • Two plastic wall plugs

6. System Required

  • iOS - iOS 8.0 and above Ready devices.
  • Android - Android 4.3 above Ready devices

7.

• Before starting to use Dexatek Smart Smoke Sensor, please make sure you haveΣCentral/Smart gateway and ΣCasa App installed. If you don't have ΣCasa App onyour smart phone, please download from Google Play for Android phone or Applestore for iPhone.

  • Installing your Smart Smoke Sensor
(1) At the place where you are going to install your Smart Smoke Sensor, draw a horizontalline six inches long
(2) Remove the mounting bracket from your unit by rotating it counterclockwise
(3) Place the bracket so that the two longest hold slots are aligned on the line. In each ofkeyhole slots, drawing a mark to locate a mounting plug and screw
(4) Remove the bracket
(5) Using a 3/16-inch (5mm) drill bit, drills two holes at the marks and insert plastic wallplugs. Put the Smart Smoke Sensor away from plastic dust on it when you drill holds formounting
(6) Using the two screws and plastic wall plugs (all supplied), attach the bracket to the wall
(7) Line up the slot of the bracket and the Smart Smoke Sensor. Push the sensor onto themounting bracket on turn it clockwise to fix it into the place. Pull onward on the SmartSmoke Sensor to make sure it is securely attached to the mounting bracket

Mounting bracket

Test / Silence Button
&
Power / Smoke Alarm
LED indicator
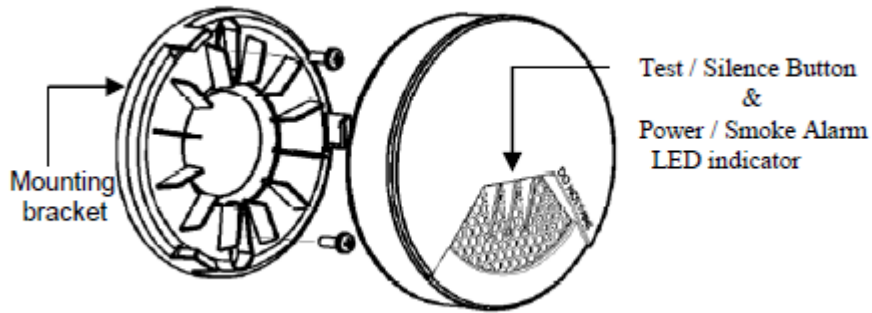
CAUTION: This smoke alarm comes with cover latches that will prevent the smokealarm cover from closing if battery is not installed. This tells you that the smoke alarmwill not work until a new battery is properly installed.

NOTE: alarm horn will beep once after the detector is installed with battery and mounted with bracket 2~4 seconds. This means the smoke alarm is working normallyand also indicates that the battery is positioned properly. Close cover, and then pressthe test button, holding it down for about 3 seconds until the horn sounds. The hornshould sound a loud, pulsating alarm. This means the unit is working properly.

• Battery Installation

(1) Open battery compartment (see figure as below)

(2) Install battery into compartment and make sure the "+" and "-" ends of each battery are aligned properly

(3) After battery is installed in compartment, you will hear a chirp which indicates the unit is receiving battery power

(4) After battery is replaced, please press test button immediately to check if it alarms properly

Removable cover of smoke chamber

Battery compartment

Tamper Switch
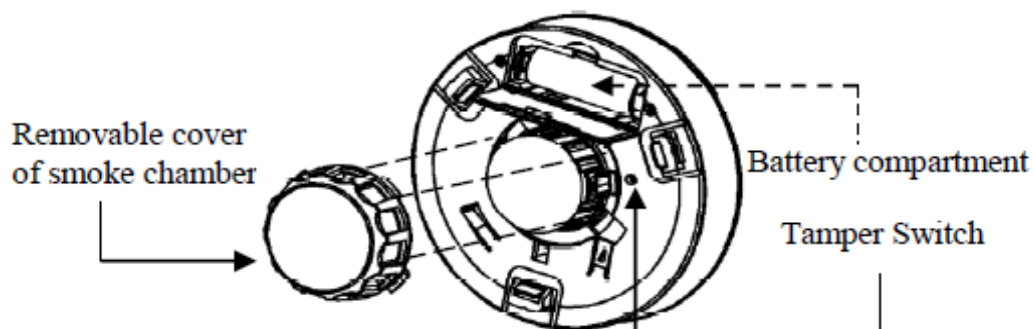
NOTE: If nuisance alarms keep coming from the unit, you should check whether the smoke alarm unit's location is adequate. Refer to section "WHERE TO INSTALL SMOKE ALARMS" Move your smoke alarm if it is not located properly. Clean the unit as described above.

FCC Statement

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

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 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.