

**TX3130**  
**Wireless Smoke Detector**

**User Manual**



## 1. Summarize

TX3130 Wireless Smoke Detector is used to detect the smoke from the fire disaster. The detector adopts MCU with excellent performance. The device is built in special program to identify fire disaster and fire forecast base on the environment performance. Built in 433MHz communication chipset to connect to gateway, widely used in home automation, store security and other fire safety monitoring. Support strong noise with bellling to notify the alarm. Support anti-noise.

## 2. Character

1. Signal automatic compensation, detect the change of environment to ignore the miss-alarm.
2. Self-checking function.
3. Faulty alarm, firm alarm, battery notification.
4. 433MHz wireless network.
5. Easy installation and maintaining.
6. Real time to monitor the alarm system for gateway.
7. Low power consumption and long service life.
8. Full seal protection technology

## 3. Technical Spec

Voltage	DC 3V
Current	Monitor<20uA, Alarm<30mA
Alarm Bell	45~75dB
Communication	433MHz Wireless
Transmit Power	<20dBm
Connect Distance	<50m
Indicator	Normal: Every 75s green flash, no belling Alarm: Keep red light, continue belling Faulty: Every 45s yellow flash, short belling
Operating Environment	-10°C~+55°C, Less than 95%(non-condensing)
Material/Colour	ABS/White Glossy finishing
Dimensions	100.3mm×46.8mm
Weight	149g

## 4. Construction and Working System

The detector adopts infrared scattering to detect fire. you can't get any signal in non-smoke environment, Once the fire is growing, the smoke run into detector's house, infrared tube receive this signal, then device identify the level. If confirm the fire, device will output alarm notification with belling and flash right now, make sure people know immediately. Also, 433MHz communication chipset send this information to gateway. trigger other devices in the same gateway notification in the same time.

## 5. Installation

### 5.1 Correct Installation

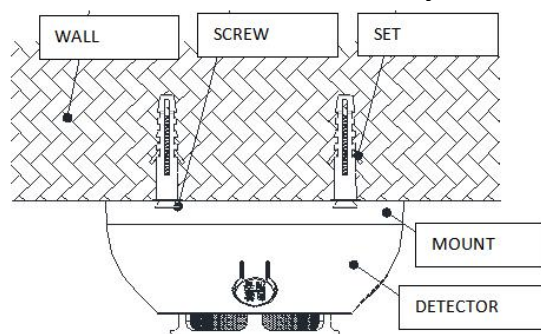
- Make sure the detector can get the fire information quickly and correctly. Suggest to install the detector in the middle of the room.
- Make sure the detector is far away from the wall or other shelter.
- While the install place is tilted, make sure the detector is far away the angle.
- The air of install environment must be flowing, make sure the detector can receive information quickly and correctly.
- Less than 50m far away from gateway to ensure receiving 433MHz signal.

### 5.2 Wrong installation

- The temperature is under  $10^{\circ}\text{C}$  or higher than  $55^{\circ}\text{C}$ , the humidity is out of 95% RH.
- The environment is full of dust, smoke or fog, like kitchen, garage, hot water room etc. The alarm will be not correct.
- The air is not flowing. Once the fire happened, the detector will slowly get the signal.
- The place with strong air flowing. Once the fire happened, the detector will hardly get the signal.

### 5.3 Installation Introduction

- Fix the mount with  $3.5 \times 3.5$ FA screw
- Rotate the detector into the mount, make sure they are complete combination



Picture 3 Installation

## 6. Connection and Test

### Indicator and operation

- Power on with the battery, the indicator will make a flash.
- Press “checking” button 4 seconds, the device will have a flash if the network connection is successful. Short press “checking” button the device will have a flash with belling “DI”, it means network connection status is quit.
- Seperate the device from mount, the device will flash every 45 seconds with “DI” belling.
- Press “Checking” button, the indicator will flash 3 seconds with continue belling.
- While device get fire information, the indicator will keep red light and keep continue belling.
- While battery is lower than 2.7V, the device will flash every 45 seconds with “DI” belling.
- Alarm linkage from other device in the same gateway. keep continue belling. While Press the “checking” button, the indicator keep red light and stop belling.

## 7. FAE

ISSUE	METHOD
No respond with “checking” button	Checking the battery
Can not get the network connect success indicator	Make sure the 433MHz signal is ready

## 8. Notice

- Please check devices frequently. Make sure the devices working normally.
- Please cover up the devices if you are decorating house.
- The battery can support up to 3 years normally , but keep alarm and weak signal will make it expend quickly.
- While something wrong with the devices, please don’t repair the devices by yourself. Connect us or your distributor, we will help you to identify what is the exact problem.