

User manual

FDT-420SH(Fixed Heat Detector)

The FDT-420SH is a low profile and compatible size, it utilizes the Intelligent RF technology for Heat detector potentially harmful heat particles.

It is micro-process controlled with 100% reliability. The Disaster & Safety allocated frequency band wireless technology is secure and powered by Signal optimization algorithm providing to multi communication paths to each wireless device.

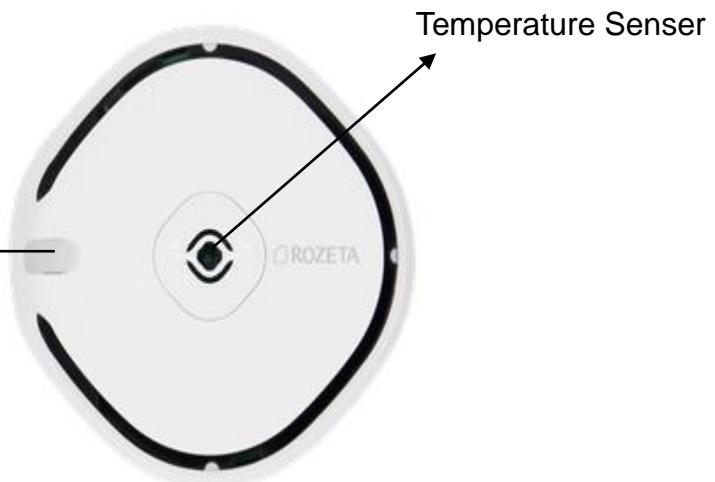
The FDT-420SH is designed to be placed on a wall or ceiling and easy installation to reduce installation fee and cost effective.



Product Information

LLamp& Button

- RED : Lights on when a fire occurs
- GREEN : Blinks during wireless communication (transmission)
- ORANGE: Blinks during wireless communication (reception), Low battery warning



Manufacturer use

Battery connection

Battery installed

Specification

FDT-420SH Sensor Specification



No.	Item	Specification	Remarks
1	Product Name	Heat Detector	
2	Model	FDT-420SH	
3	CPU Core	ARM 32-bit Cortex-M0+	
4	Frequency Band	433.0650Mhz ~ 434.5900Mhz / GFSK method, 122Channel	
5	RX Power	4mW	
6	Wireless Reception Sensitivity	-128dBm	
7	Radio Range	1Km (Open area)	
8	Battery	Lithium Primary Battery (CR17450x2) /DC 3V, 4800mAh or Lithium Primary Battery (CR17450x3) /DC 3V, 7200mAh	
9	Current Consumption	Normal 4uA / 45mA Under(@RF TX)	
10	Operating Temperature	-10°C ~ 70°C	
11	Weight	190g	
12	Dimension (W * H * D / mm)	109 * 109 * 47	
13	Detector Type	Fixed Heat Temperature Detector (70°C)	
14	FCC ID	2BKAH-FDT-420SH	

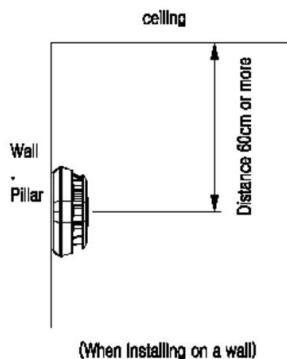
Function

- Capability to transmit RF signals to the RF receiver device
- Ability to transmit multiple RF signals from the sensor extension terminals to the RF receiver device
- Repeater function that transmits RF signals from other devices or RF receiving devices
- Always ON the wireless transmitter to prevent problems with the sensor's low battery.
- Broadcasting function to notify the alarm signal to other devices
- If the wireless transmitter shuts down the power at all times (power outage), you can immediately notify the administrator who entered that contact via text and phone.
- Continuous signal standby mode to prevent malfunction in the event of fire detection
- Operation check function of radio transmitter
- The Alarm management mode is in place to repeat the notification after a fire detection, a certain time alarm, and an automatic erase.
- Operation check function of radio transmitter
- For early fire prevention purposes, the temperature and humidity of the room can be checked through the app in real time (regular power).

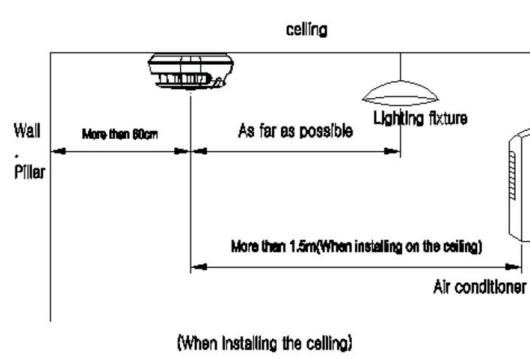
Chapter 3. Product Installation

3.1 Installation Method

1) How to fix the wall



2) How to fix the ceiling



3.2 Installation Precautions

- When installing the ceiling, install at least 0.6 meters away from the wall or post.
- When installing walls, install at least 0.6 meters away from the ceiling.
- Install as far away as possible from the following devices: (ventilation fans, air conditioners, lighting equipment)

● 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.

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.

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

This device should be installed and operated with minimum 20 cm between the radiator and your body.





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