HST-HD301

Standalone Smoke Detector

User Manual

Please read the instructions carefully before use

I.Overview

Photoelectric fire smoke detector(smoke detector,in short) is built with infrared photoelectric sensor with unique structural design,, reliable MCU and SMT manufacturing processes, featuring high sensitivity, high durability, low power consumption and ease of use. It's widely used in homes, shops, factories and warehouses for fire prevention purposes.

Not recommended for spaces with:

- stagnant smoke under normal conditions.
- big dust particles, fog, vapor, fume, corrosive air.
- relative humidity over 95%.
- ventilating air speed of over 5m/s.

II.Working Principles

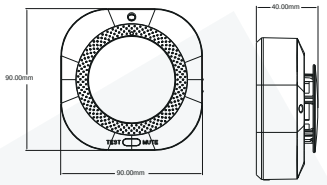
This detector is designed to detect smoke from fire at its smoulder stage or after it breaks out. When smoke moves into the sensing chamber and triggers light scattering, the variation on illuminance received by light sensing component has linear correlation with the smoke density. The detector constantly collects, analyzes and determines the data. When the illuminance reaches preset alarm activation threshold the red LED light of the alarm flashes continuously, the buzzer sounds "beep beep beep", and at the same time, it will send a wireless signal to the alarm host to notify the user to deal with the alarm immediately;

When the smoke in the environment where the alarm is working disappears, the alarm automatically returns to normal working condition.

III.Technical Specifications

Rated voltage: DC3V (2 × 1.5V AA batteries)
Static current: ＜ 15uA
Alarm current: ＜ 60mA
Low voltage threshold: 2.5V ± 0.1V
Sound pressure level:>85dB (3 meters in front)
Smoke detection indicator : normal, alarm, under voltage, etc
Indicator : red indicator
RF Frequency： 433.92Mhz/330K/1527
Installation hole spacing: 60mm
Working temperature: -10 ℃~+50 ℃
Relative humidity: ≤ 95% RH (40 ± 2)
Output form: Sound and light alarm
Product weight: approximately 120g (with battery)
Dimensions: 90mm × 40mm (including mounting plate)

IV.External dimensions



V.Installation & Debugging

Installation Position:
Detection range covers around 20m² for regular spaces with the height of no more than 6m. Please install the detector onto the ceiling.
Installation Steps:

- Twist the rear plate anticlockwise off the detector.
- Aligning the 2 holes on the rear plate, and drill 2 holes on the ceiling, with 60mm in between. Then screw the rear plate onto the ceiling with the provided anchors and screws (refer to Figure 1).
- Load 2pcs 1.5V AA dry batteries into the battery compartment on the detector (pay attention to the '+'/'-'end).

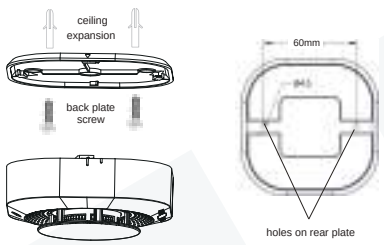


Figure 1

VI. Operation Instructions

1. Standby : The red LED indicator flashes approxi-mate-ly every 60 seconds, indicating that the alarm is in normal standby stata.
2. Smoke alarm: When the smoke detector detects that the smoke particles generated by combustion reach the alarm threshold, the alarm enters the alarm state, the buzzer emits a "beep beep" sound, and the red LED indicator flashes，and at the same time, it will send a wireless signal to the alarm host to notify the user todeal with the alarm immediately; When the alarm detects smoke below its alarm threshold, tthe alarm automatically returns to normal stata.
3. Mute function: In the alarm state, press the test button, the alarm will enter the mute state. In the mute state, the alarm sound stops and the red indicator light flashes rapidly， After the muffling state is maintained for about 10min, the alarm will automatically exit the muffling state, and if there is still smoke at this time, the alarm will be activated again.

Reminder: The mute function is a temporary measure taken when guests need to smoke or perform other operations that may trigger the alarm.

⚠ Warning: Warning: Be sure to use the mute function while ensuring safety.

4. Low battery warning: The red LED indicator flashes once every 55 seconds and the buzzer beeps at the same time, indicating that the devices battery is low. When the alarm sends a low battery fault, it will send a wireless signal to the alarm host to notify the user of the battery low battery； When the battery is low, please replace it with a new one in time.
5. Test mode:The alarm should be checked regularly. When the test button is pressed, the red indicator flashes and an alarm sound is emitted; After releasing the button, the alarm automatically returns to normal standby stata.The alarm will send out a wireless signal when testing the alarm, which is convenient for users to test the wireless function of the alarm.

VII. Troubleshooting

- When detector sounds 'Di' every 55s it indicates low power, please replace the batteries.
- Constant false alarms: dust contamination. Please clean the maze with your vacuum cleaner(the plastic part in black).

VIII. Maintenance

- Please contact your supplier in case of malfunction. Do not dismantle or repair on your own, not to cause any accidents.
- If not in use for long, remove the batteries and the detector from installation, and keep them dry and in good ventilation.

IX. Transportation & Storage

- Keep intact the original package and seal during transportation, and prevent the product from intensive impacts.
- Avoid drastic changes on environment temperature.
- Stacking layer counts: no more than 6 for cartons, and no more than 5 for individual package box.

X. In The Box

Smoke detector x1
Expansion tube x2
Batteries:x2
Rear plate x1
Screw x2
User manual ×1