

# SK-201 Domestic Photoelectric Smoke Detector Specification

## Product summary

SK-201 stand-alone photoelectric smoke detector (hereinafter referred to as smoke detector) works with build-in 3V lithium battery. In low battery condition, users can replace with new batteries themselves. The smoke detector adopts our latest smoke chamber, which has fast smoke inlet and high sensitivity. The smokedetector also adopts the integrated chip specially used for photoelectric smoke detector. It compensates the changes of external environmental parameters and judges the fire alarm by internal curing operation program of single-chip, and sends out alarm signal timely for early fire. Based on the existing functions of products in market, the smoke detector adds the characteristics of increasing alarm sound gradually and function of long-term environmental compensation, which can effectively reduce the false alarm caused by environmental impact to the smoke detector. The smoke detector adopts smoke chamber of infrared beam and light sensor, when the smoke enters into the chamber, smoke particles change the amount of infrared beam to light sensor. Once the received light intensity reaches the predetermined threshold, the smoke detector will send out alarm signal, the fire indicator light will flash and the buzzer will alarm.

## Features

- Battery replaceable: In low battery condition, users can replace with new batteries themselves.
- Fool proof design: The smoke detector can't be installed without battery, can't be powered with reversed battery polarity but no harm to circuit board.
- Reliability and flexibility: Adopts integrated chip specially used for photoelectric smoke detection.
- Consistent and controllable sensitivity: By production process of calibration.
- Up to date smoke chamber: Fast smoke inlet, high sensitivity, low false alarm rate.
- Long-term environmental compensation function: Minimize false alarm caused by environmental pollution.
- Gradual loud alarm mode: Three levels of sound increases successively to avoid abrupt alarm to users.
- Test mode: In normal condition, press mute/ test button for more than 2 seconds and keep it, the smoke detector will start self-test. If it works properly, it will send out alarm with sound gradually increased and 1HZ cycle (alarm for 0.5s, stop for 0.5s), and LED will flash once per second. To exit test mode, release the mute/ test button.

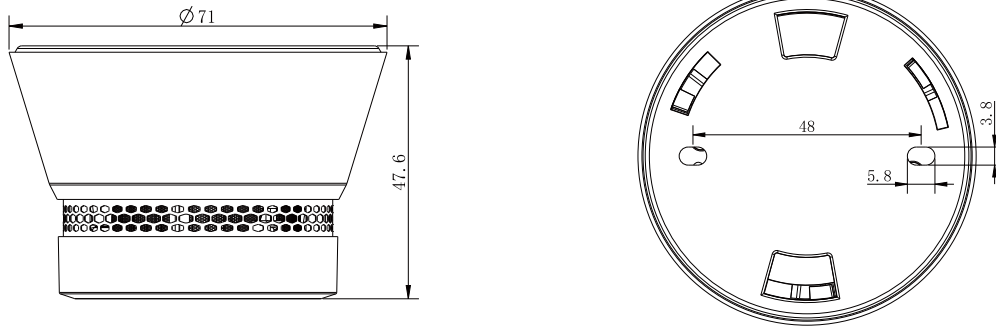
- Self-diagnose function: In normal condition, when the smoke detector self-diagnoses malfunction, it will beep 3 times and not enter self-diagnose state. While there is no abnormality but low voltage fault, it enters self-diagnose state and LED light (red) will be on for 2 seconds first, then flashes once every second with alarm sound increasing gradually.
- Silence mode: When it comes false alarm, press mute/ test button (for 0.4~2s) then release, alarm will be canceled and keep silent for 8 minutes.
- Low battery indication: When the battery is used up, the smoke detector will beep once every 48 seconds indicating low battery, meanwhile LED light (red) flashes once.
- End of life indication: The smoke detector calculates service time automatically. After running for 10 years, it will beep twice every 48 seconds prompting the user that the smoke detector has expired.
- Alarm memory function: After the smoke detector alarms, it will automatically exit the alarm mode once the smoke dissipates. LED light (red) will flash twice every 384 seconds if mute/test button is not pressed. While mute/test button is pressed (for 0.4~2s) and then released, the smoke detector will beep twice and erase the alarm memory. After that LED light (red) flashes once every 384 seconds.
- Internal error indication: If smoke chamber degrades, being polluted or abnormal with self-diagnose setting parameter, the smoke detector will beep 3 times every 48 seconds prompting internal error of itself.

## Technical Data:

Product type	Photoelectric
Battery	3V CR123A lithium battery(sealed in)
Standby current	<30uA
Alarm current	<40mA
Low voltage alarm point	2.6V
Alarm sound volume	>80dB /3m
Humidity	≤95% RH
Temperature range	0°C ~ 55°C
Sensitivity range	0.1dB ~ 0.16dB
Standard	EN 14604: 2005
Dimension	71mm (D) x 47.6mm(H)
Mounting distance	48mm
weight	77.2g (with mounting plate and battery)

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## Dimension and installation



## Appearance

