

-----Please read this manual carefully before installing and using the product-----

1. Overview

The AW-D603L wireless addressable smoke detector is mainly designed to be use with a wireless control system. The detector is a photo-detector that uses the most advanced optical sensing chamber. It has a wireless network alarm function that can form a wireless LAN alarm system through the panel. It is wireless connection and supports electronic coding, easy installation and construction.

2. Product Features

- 2.1 Surface mounting
- 2.2 LED indicator and buzzer
- 2.3 No wire connection (easy to install)
- 2.4 Full electronic coding, through AW-FR100 encoder scene rewrite
- 2.5 Compatible with all the latest EN standards



3. Technical Parameters

- 3.1 Operating voltage: 3VDC (with battery CR17450 / CR17455)
- 3.2 Operating current: monitoring status $\leq 8\mu\text{A}$, alarm status $\leq 120\text{mA}$
- 3.3 Operating Frequency: 433MHz (418MHz to 448MHz)
- 3.4 Smoke Alarm Sensitivity: 0.18-0.3dBm
- 3.5 Wireless transmit power: +20dB
- 3.6 The battery is used for ten years, and it does not need to be replaced for ten years of normal operation.
- 3.7 Battery Type: A Panasonic Corporation (Panasonic Energy Co., Ltd)-CR17450/CR-AGF; B Huzhou Huiderui Litium Battery Technology. Co., Ltd)-CR17450.
- 3.8 Alarm SPL: $\geq 85\text{dB}$ /3m
- 3.9 Operating temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$, Relative humidity: $\leq 93\%$ (non-condensing)
- 3.10 Protection class: IP30
- 3.11 Application: For indoor use only
- 3.12 Encoding: Coded by the encoder, the address range from 1 to 250 optional
- 3.13 Materials and colors: ABS, white
- 3.14 Size: 105mm*105mm*41mm
- 3.15 Weight: about 120g
- 3.16 Mating Panel: AW-FP100 addressable fire alarm control panel

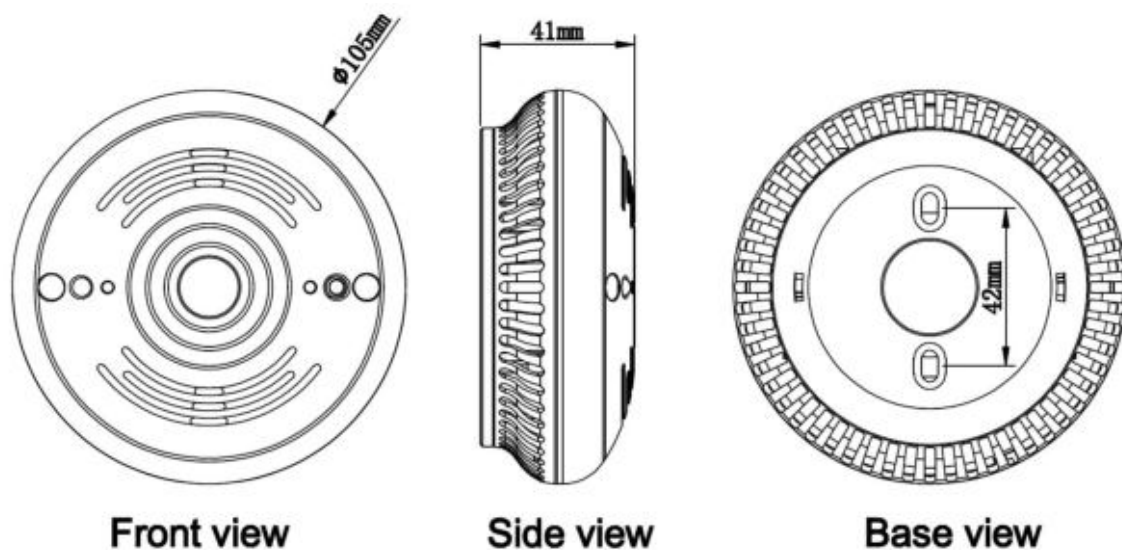


Figure 1. Main part

4. Mounting Base

AW-D603L should comply with all local codes. Shown in Figure 2, install the base of the AW-D603L on the wall. And then insert the main body into the base.

The base dimensions of 105mm*105mm*41mm (Length*Width*Height), mounting hole diameter $\phi 2$ mm, fixing the hole spacing is 42mm, shown in Figure 3.

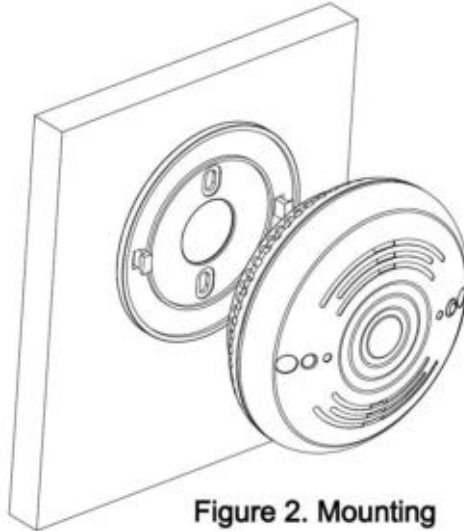


Figure 2. Mounting

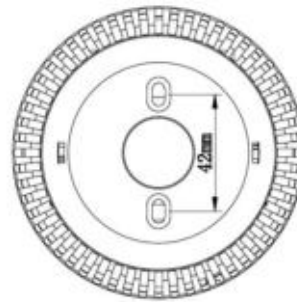


Figure 3. Base

5. Operation

Address coding: The address of AW-D603L, you can use the handheld encoder (AW-PF100) and the wireless connector to edit/read and write the address wirelessly.

Test: When there is no fire alarm, you can press the test button to test. When pressed, both the buzzer and the LED light will work intermittently (beep and LED blinking).

Buzzer silence: When the detector is under alarm condition, press the button on the cover to silence the buzzer.

Reset: When the detector is under alarm condition, and the fire alarm is disappeared, press the reset button on the panel to reset the detector.

Normal work: The LED flashes every 1 minute, and the smoke density is detected every 5 seconds, and the buzzer does not sound.

Low battery/fault: The LED flashes every 1 minute and the buzzer will sound once.

Smoke sensor failure: every two LED flashes, only the buzzer sounds once.