

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

1. Overview

AW-D605L wireless addressable smoke & heat detector is mainly designed for wireless control system. The detector most advanced optical sensing chamber and temperature sensing with the fastest response and highest sensitivity. With wireless network alarm function, it can form a wireless local area network alarm system through the panel.



2. Product Features

- 2.1 High quality durable sensor
- 2.2 Loud 85dB alarm and LED warning indicator
- 2.3 Excellent reliability and high stability
- 2.4 The battery is used for ten years, and it does not need to be replaced for ten years of normal operation.
- 2.5 Meets all requirements of latest EN standard Technical parameters

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 Wireless transmit power: +20dB
- 3.5 Smoke Alarm Sensitivity: 0.18-0.3dBm
- 3.6 Fix temperature Alarm: 57°C (135°F) A2R
- 3.7 Rate of rise Alarm: $\geq 10^\circ\text{C}/2\text{M}$ A2R
- 3.8 Low battery alarm voltage: $\leq 2.4\text{V}$
- 3.9 The battery is used for ten years, and it does not need to be replaced for ten years of normal operation.
- 3.10 Battery Type: A Panasonic Corporation (Panasonic Energy Co., Ltd)-CR17450/CR-AGF; B Huzhou Huiderui Litium Battery Technology Co., Ltd)-CR17450.
- 3.11 Alarm SPL: $\geq 85\text{dB}$ @3m
- 3.12 Operating temperature: $0^\circ\text{C} \sim 40^\circ\text{C}$,
Relative humidity: $\leq 93\%$ (non-condensing)
- 3.13 Application: For indoor use only
- 3.14 Standard Number Ref: BS5446-2
- 3.15 Materials and colors: ABS, white
- 3.16 Size: $\phi 105\text{mm} \times 105\text{mm} \times 50.2\text{mm}$ (Figure 1)
- 3.17 Weight: about 120g

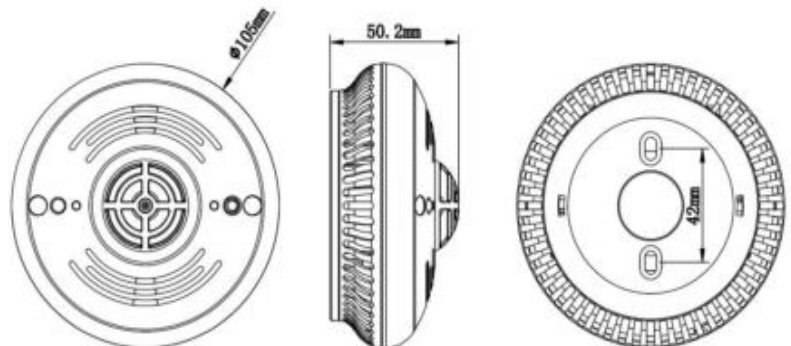


Figure 1

4. Mounting Base

AW-D605L should comply with all local codes. Shown in Figure 2, install the base or the AW-D605L 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 $\phi 2\text{mm}$, fixing the hole spacing is 42mm, shown in Figure 3.

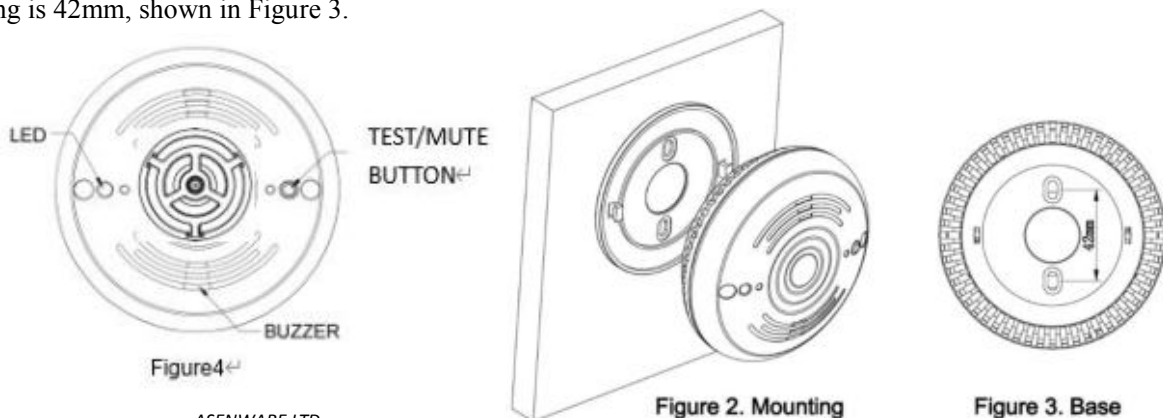


Figure 4

Figure 2. Mounting

Figure 3. Base

5. Operation

Normal work: LED flashes once every 50 seconds and battery power is detected once, smoke density is detected once every 4 seconds, and the buzzer does not sound.

Low battery/failure: LED flashes once every 50 seconds, buzzer beeps once.

Power-on operation: The factory default power-off state. Press and hold the button until the indicator is on and the buzzer sounds, then release the button to enter the normal operation state.

Power-off operation: When the device is powered on, press and hold the button until the LED indicator flashes continuously and rapidly, then release the button, press and hold the button again until the buzzer sounds once, and then release the button to enter the power-off process. After the indicator flashes slowly and is off, the device will be powered off after 1 beep.

Button function: Under normal state, press the button once to test the function. The indicator will be on and the buzzer will sound once, and the detector will send the wireless data to the connected panel.

Under alarm state, press the button once to silence the alarm, making the buzzer stop. But the detector will still be in alarm state.

6. Wireless Detector Address Programming Instruction

6.1 Wireless programmer encoding

Switch the programmer to the corresponding mode and operation interface according to the operation.

6.2 Detector enters the configuration mode

Under the normal state, press and hold the button until the LED indicator flashes continuously and rapidly, and release the button. This is the state of detector address programming, writing and reading functions, and you can encode the detector using the programmer.

6.3 Read address

In the smoke detector configuration mode, press "Read" button on the programmer to read the address. At this time, the smoke detector will beep to show that it receives the signal, and when the programmer shows "Success" on the screen, it means that it reads the address successfully. The address number showed on the screen is the address of the smoke detector.

6.4 Input address

In the smoke detector configuration mode, press "Write" button on the programmer to input the address, the smoke detector will beep to show that it receives the signal, and when the programmer shows "Success" on the screen, it means that you input the address successfully.

6.5 Exit configuration mode

In the smoke detector configuration mode, press the smoke detector button to exit the configuration mode and save the configuration information. The smoke detector will beep 3 times, showing that it exits successfully.

If there is no operation in the configuration mode for 1 minute, the smoke detector will automatically exit the configuration mode and save the configuration information.

WARNING

TO PREVENT DETECTOR CONTAMINATION AND SUBSEQUENT WARRANTY CANCELLATION, THE DETECTOR MUST REMAIN COVERED UNTIL THE AREA IS CLEAN AND DUST FREE.

Battery Description:

This product uses a lithium-manganese ten-year battery model CR17450 with a service life of more than ten years without the need to replace the battery. (In the case with the quiescent load together with the additional load resulting from a routine weekly 10s test.)

If a battery fault warning is emitted, please contact with manufacture.