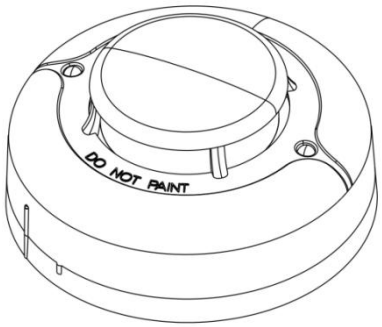
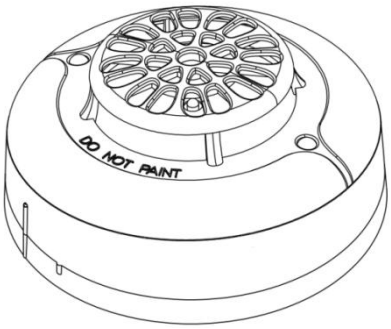
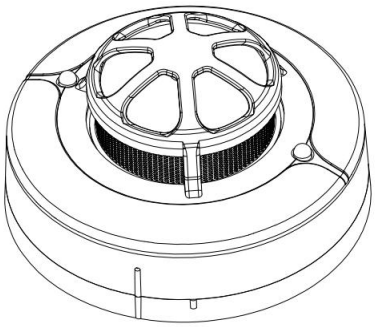
----------Please read this manual carefully before installing and using the product ----------



AW-D101



AW-D102



AW-D138

1.Overview

Addressable smoke/heat/smoke and heat combined detectors are mainly designed for addressable fire alarm control systems. The smoke detector has a photo-electrical sensing chamber for smoke density detection. The heat detector has stable sensitive temperature-sensing technology for temperature detection. With the addressable communication function, it can send the alarm signal to the addressable fire alarm control panel. (Figure 1)

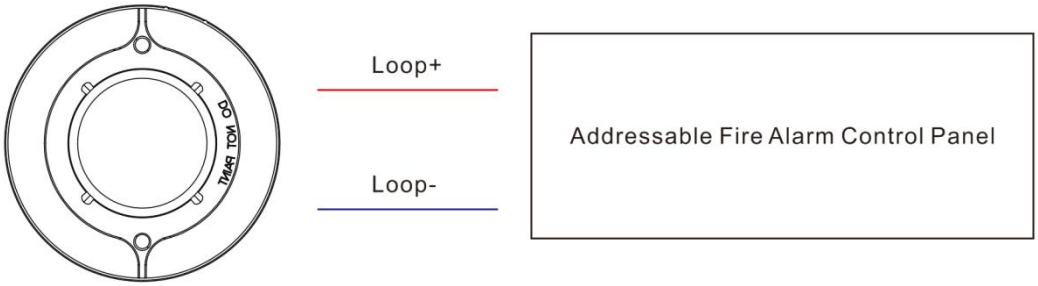


Figure 1

2.Order Information

Model No.	Name	Smoke	Heat
AW-D101	Addressable smoke detector	√	/
AW-D102	Addressable heat detector	/	√
AW-D138	Addressable smoke and heat detector	√	√

3.Product Features

3.1 Low standby current for continuous monitoring

3.2 Two-wire connection

3.3 Dual LED design provides a 360°viewing angle

3.4 Compliance with EN54-5 & EN54-7

4. Technical Parameters

4.1 Operating Voltage: 18V~28VDC @ loop

4.2 Maximum Current: ≤2.5mA @ loop 24V

4.3 Alarm Current: ≤2.5mA @ loop 24V

4.4 Heat Sensitive: A1R (Only for AW-D102)

A2R (Only for AW-D138)

4.5 Height: 55.7 mm installed in the base

4.6 Diameter: 100 mm

4.7 Standard Number Ref: EN 54-5; EN 54-7

4.8 Operating Temperature: -10℃～55℃,

Relative Humidity: ≤93% (non-condensing)

4.9 Application: For indoor use only

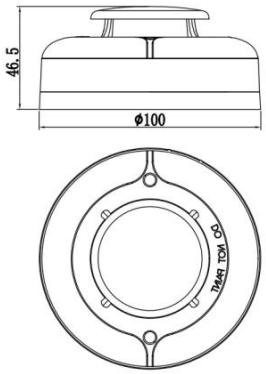
4.10 Shell Materials and Colors: ABS, white

4.11 Matching Panel: AW-FP series addressable fire alarm control panel

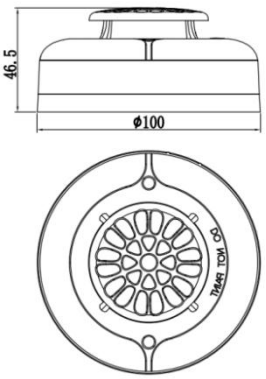
4.12 Programming: Coded by the programmer

4.13 Indicator Status:

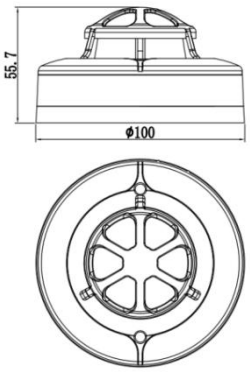
	Indicator Status	Note
Normal Status	Flashes slowly	Detector is working normally
Alarm Status	Red indicator always on	The detector is triggered by smoke or high temperature
Fault Status	Flashes quickly	Please maintain the detector



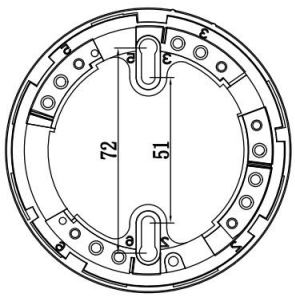
AW-D101



AW-D102



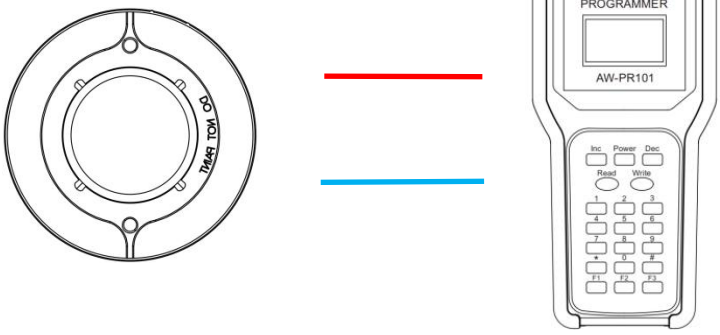
AW-D138



Base

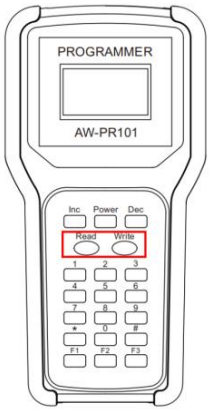
5. Addressable Detector Programming Procedure

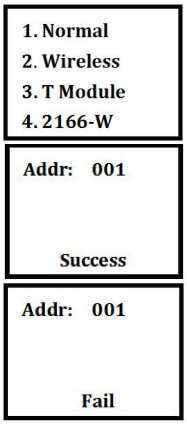
Step 1:



Hold the detector and install it onto the base of programmer
Hold the power button of PR101 to power on programmer

Step 2:





Press '1' for selecting '1. Normal'

Press 'Write' for writing address,
'Success' will be shown when it is done.
Otherwise 'fail' will be shown.
Press 'Read' for reading address,
'Success' will be shown when it is done.
Otherwise 'fail' will be shown.

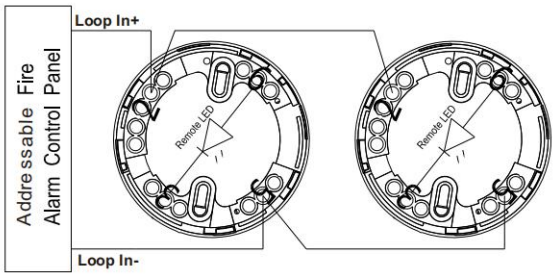
6. Installation

6.1 Installation should comply with all local relative standards.

6.2 Install the Detector Base

6.2.1 Fix the base on the ceiling.

6.2.2 Connect the cables to the base terminals as below table, see Figure 2.



Terminal 2	Loop In+
Terminal 5	Loop In-
Terminal 6	Remote Indicator+
Terminal 3	Remote Indicator-

Figure 2 Terminal wiring

Note:The detector is only connected to addressable fire alarm panel, NOT permitted to connect DC18-28V power supply to terminal Loop In+, Loop in-

6.3 Install the Detector Head

6.3.1 Clockwise direction rotate the alignment mark in the detector cover from the start alignment mark to the end alignment mark in the base. (Figure 3)

6.3.2 After all detectors have been installed, power on to the control panel.

Note: Don't remove the red dust-protection cover until the fire alarm system is used for normal work.

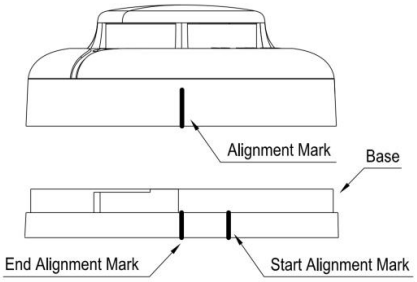


Figure 3

7. Testing

Please use the specialized equipment to test the detector. Testing should comply with all local relative standards.

8. Maintenance

Fault may occur due to environmental factors such as uncleanliness and dust accumulation. Cleaning the detector once a year is recommended. In case of a worse environment, clean it once in half a year.

8.1 Remove the uncleaned detector from the system. Then remove the screws and open the detector cover.

8.2 Clean the chamber carefully without removing it. If further cleaning is required continue with Step 3, otherwise, skip to Step 6.

8.3 Remove the chamber cover assembly.

8.4 Use a cleaner to remove dust and debris from the sensing chamber.

8.5 Reinstall the chamber cover assembly by sliding the edge to the sensing chamber. Then press it.

8.6 Replace the cover using the LED indicators to align the cover and then gently push it to lock into the right place. Make sure that the thermal resister does not bend/break.

8.7 Reinstall the detector.

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

CE 1008 22 TÜVRheinland CERTIFIED

TUV Certificate No.:
AW-D101: 1008-CPR-MC 69266490 0001
AW-D102: 1008-CPR-MC 69266604 0001
AW-D138: 1008-CPR-MC 69266608 0001