

## ★ Our Service Policy:

1. NFPA engineer approved free design for all fire systems.
2. Installation and training at customer's location.
3. Special product design with appropriate solution.
4. Continuous technical support.
5. 2 years warranty.

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YouTube



Website



TikTok

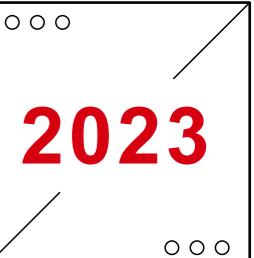
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Since 2005, Fire Alarm and Suppression System Manufacturer & Complete Solution Provider.



## ASENWARE CATALOG

Since 2005  
Only for Fire Safety



**LPCB Conventional  
Fire Alarm Control System**  
AW-CFP2166



LPCB Approved Addressable  
Fire Alarm Control System  
AW-FP300

Addressable Fire Alarm  
Control System  
AW-FP100

Wired and Wireless  
Addressable Fire Alarm  
Control System  
AW-FP128

Centralized Monitoring  
Emergency Luminaire  
System

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#### Who is ASENWARE?

ASENWARE is the fire alarm system and fire suppression system manufacturer and whole fire safety solution provider since 2005.

Driven by a commitment to sound operations, ongoing innovation, and open collaboration, we have established a competitive fire safety products line including addressable fire alarm system, conventional fire alarm system, central monitoring emergency light system, fire telephone and voice evacuation system, fire pump, fire hose and gas suppression system.

Our fire safety products, solutions and services are used in over 100 countries.

With over 200 employees work in United Kingdom-Marketing Center, China-R&D and Supply Chain Center, ASENWARE is committed to design and manufacture the best fire safety products to reduce the risk of fire, and support the world to be safer and more comfortable.

#### What do we offer the world?

##### We focus on the high quality products and services supply only.

We always remember that quality is the cornerstone of our existence, and we will never reduce the quality for any reason.

Our products must comply with international standards, and must be stable and reliable in long term using.

We will continuously improve our products to be more excellent. In any time, we should not accept the poor quality results, or keep a poor quality work just because of the old experience. We should always think what is the best and how can do the best.

We must keep our promises for our customers, we must provide products, services and solutions to our customers with more than their expect.

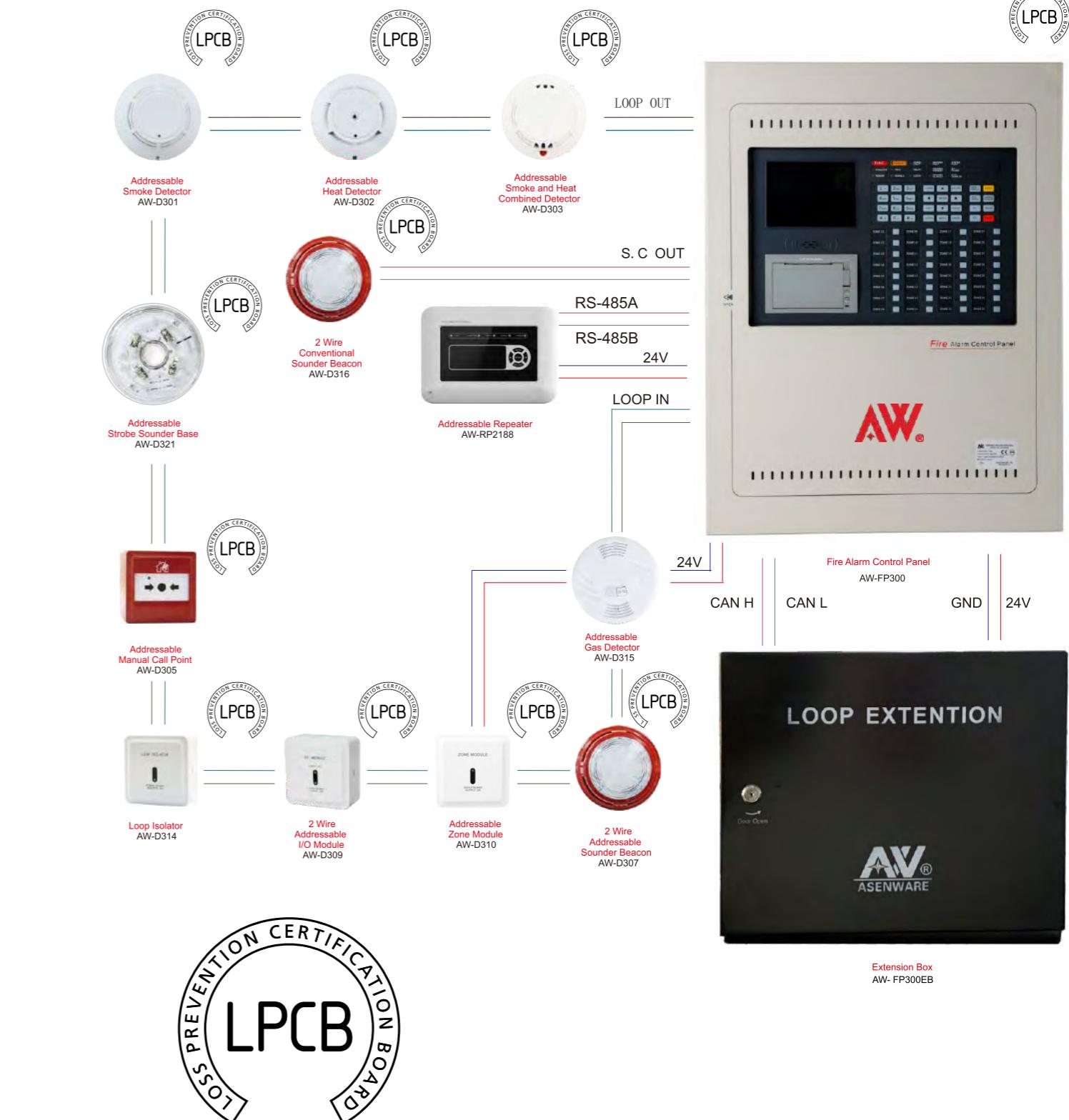
##### We create value for our customers.

We keep invest to design and update our products, every year we have new products and new solutions for fire safety market.

We focus on international standard and certificate fire safety products, until now we already got LPCB, TUV, BSI, Intertek CE, Bomba, ATEX certificates for our different products.

Our products and services support wholesalers, project contractors and building owners. We set up a cloud website that can monitor all the running fire panels. Every agent, contractor, owner, maintenance engineer can check the fire system real status and get emergency alarm by mobile phone or email.

We support to design the projects based on NFPA and other international standards. All projects are designed and verified by highly skilled engineering team. Moreover, we support our customers at site in different countries for commissioning and other necessary supports for the completion and submittal of the projects.



**ASENWARE Quality Policy:**  
Our products must comply with international standards, and must be stable and reliable in long term working.

## AW-FP300 Fire Alarm Control Panel

1-8 Loop Fire Panel



## AW-FP312 Addressable Fire Alarm Control Panel



The purpose of the AW-FP300 Fire Alarm Control Panel (FACP) is to monitor input signals, give indications and possibly activate outputs as programmed. It is designed to comply with EN 54-2 and EN 54-4 with qualities of simple installation, operation and easy maintenance. The AW-FP300 panel is an addressable fire detection panel with 1 loop of 324 addressable points and expansion capabilities. It is compatible with other peripherals made by ASENWARE with its own protocol.

The purpose of the AW-FP312 Fire Alarm Control Panel (FACP) is to monitor input signals, give indications and possibly activate outputs as programmed. It is designed to comply with EN 54-2 with qualities of simple installation, operation and easy maintenance. The AW-FP312 panel is an addressable fire detection panel with 1 loop of 120 addressable points and expansion capabilities. It is compatible with other peripherals with the same protocol.

## The AW-FP300 single loop 32 zone fire alarm control panel offers the following features

Up to 324 addresses in one loop, 648 addresses in two loops

Easy to read, 4.3" color screen LCD with a resolution of 480x272

Zone indication and control panel (ZCP) for 32 zones gives a quick indication of the location of an alarm or fault

Record capacity of 1000 historical events for each of historical fire, historical fault and historical operation

CAN bus for interconnection of up to 20 FACP and RS-485 for connection with up to 30 fire indicating panels per FACP

## The AW-FP312 addressable fire alarm control panel offers the following features

One loop with 120 addressable points

CAN network 20pcs panel

Graphic monitor



**Addressable Smoke Detector**  
AW-D301

Operating Voltage	Loop 24V(18V~28V)
Standby Current	$\leq 0.3\text{mA}$
Alarm Current	$\leq 1.5\text{mA}$ (without remote indicator) $\leq 3.5\text{mA}$ (with remote indicator)
Fire LED	Red, Flash in polling, and illuminate in alarming.



**Addressable Heat Detector**  
AW-D302

Operating Voltage	Loop 24V(18V~28V)
Standby Current	$\leq 0.3\text{mA}$
Alarm Current	$\leq 1.5\text{mA}$ (without remote indicator) $\leq 3.5\text{mA}$ (with remote indicator)
Fire LED	Red, Flash in polling, and illuminate in alarming.



**Addressable Smoke and Heat Combined Detector**  
AW-D303

Operating Voltage	24V(Pulse Modulation)
Operating Current	$\leq 0.5\text{mA}$ (Monitoring Status) $\leq 1.5\text{mA}$ (Alarm Status)
Protection Area	60m <sup>2</sup>
Installation Height	$\leq 8\text{m}$



**Addressable Zone Module**  
AW-D310

Operating Voltage	Signal Loop 24V(20V~28V), Power 24VDC(20VDC~28VDC)
Standby Current	Loop $< 0.5\text{mA}$ ; Power $< 15\text{mA}$
Action Current	Loop $< 2\text{mA}$ ; Power $< 35\text{mA}$
Operating Temperature	$-10^\circ\text{C} \sim +55^\circ\text{C}$
Relative Humidity	$\leq 95\%$ , non-condensing



**Addressable Strobe Sounder Base**  
AW-D321

Loop input	DC24V(20-28V)
Power consumption	$\leq 0.2\text{W}$ @DC24V
Operating Temperature	$-10^\circ\text{C} \sim +55^\circ\text{C}$
Relative Humidity	$\leq 95\%$ , non-condensing



**4G GSM Module**  
AW-GSM200



**Addressable Gas Detector**  
AW-D315

Operating Voltage	12V-28V
Operating Current	35mA @ DC24V
Alarm Current	40mA @ DC24V
Operating Humidity	$\leq 95\%$ , without Condensation
Alarm Levels	Natural Gas, 10%LEL( $\pm 3\%$ )



**4 Wire Addressable Sounder Beacon** AW-D306  
**2 Wire Addressable Sounder Beacon** AW-D307  
**2 Wire Conventional Sounder Beacon** AW-D316



**Addressable Manual Call Point**  
AW-D305

Operating Voltage	Signal Loop 24V(18V~28V) Power 24VDC(20VDC~28VDC)
Standby Current	Loop $\leq 0.8\text{mA}$ ; Power $\leq 2\text{mA}$
Action Current	Loop $\leq 5\text{mA}$ ; Power $\leq 15\text{mA}$
Output Capacity	1A@DC30V
Input Mode Setting	NC or NO input mode can be set by the jumper JP4.



**Programmer**  
AW-CODER2188

A device for giving specific ID to all the addressable accessories which need to be configured with AW-FP300 control panel.



**Addressable sounder beacon waterproof base**  
AW-BS03

Made of ABS material  
Complies with IP65 rating



**Loop Isolator**  
AW-D314

Line Voltage	16-28 VDC
Standby Current	$\leq 3\text{mA}$
Capacity	32 devices
Maximum Voltage At Which The Device Isolates	8 - 11V
Maximum Voltage At Which The Device Reconnects	1.4-4V

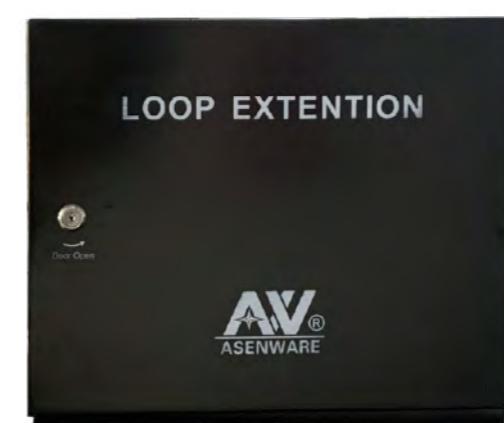


**4 Wire Addressable I/O Module** AW-D319  
**2 Wire Addressable I/O Module** AW-D309



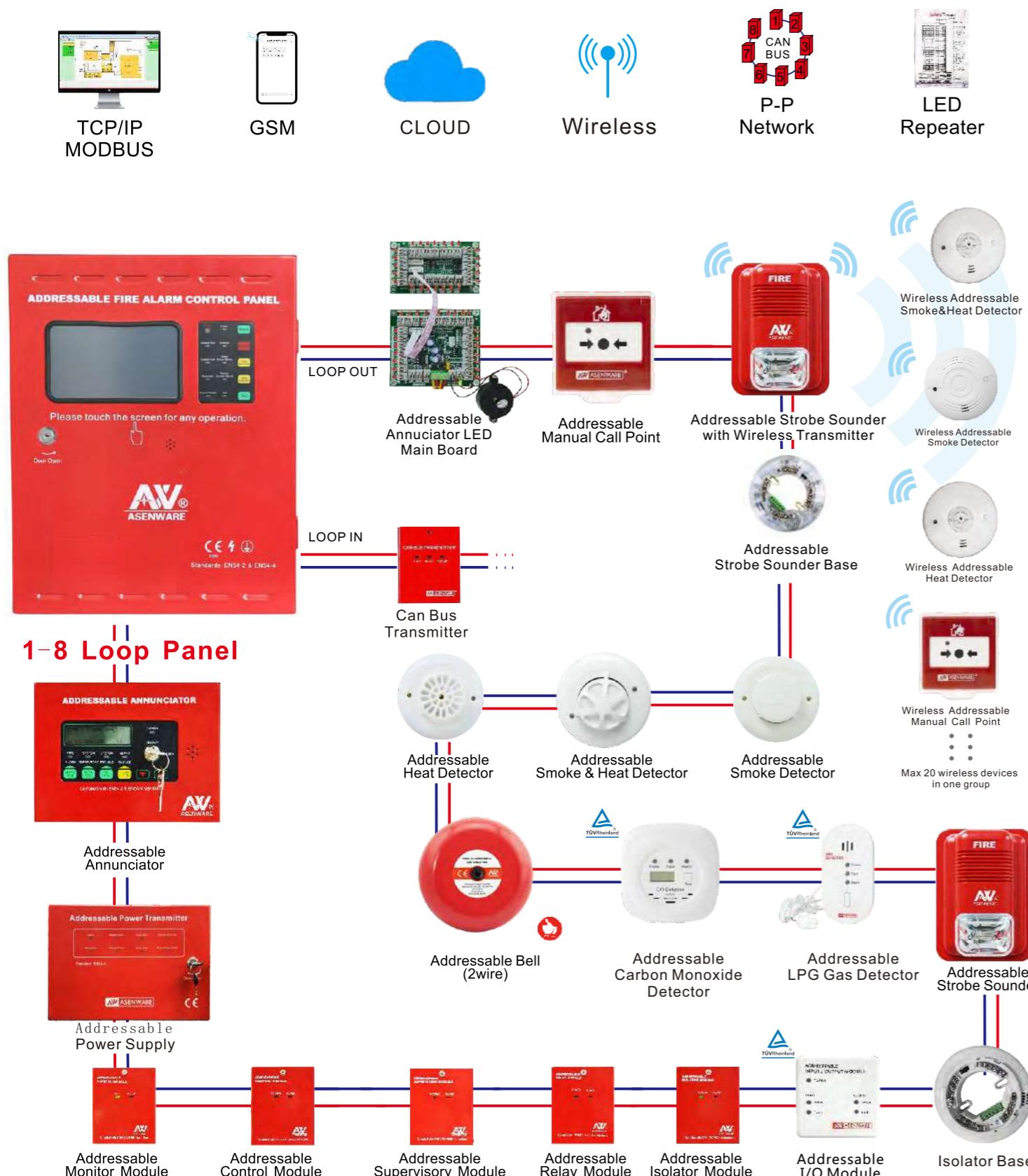
**Addressable Repeater**  
AW-RP2188

Power Supply	DC 24V $\pm 20\%$
Overall Power Consumption	$\leq 3\text{W}$
Working Temperature	$-10^\circ\text{C} \sim +50^\circ\text{C}$ ,
Relative Humidity	$\leq 95\%$ (40°C, non-condensing)



**Extension Box**  
AW-FP300EB

Extend 1 to 6 Loop cards



### AW-FP100 Fire Alarm Control Panel

#### 1-8 Loop Fire Panel



Asenware AW-FP100 Series Fire Alarm Control Panel are intelligent panels which are designed to make it suitable for most of applications. The user friendly functionality makes it suitable to program and configure the devices. 7" touchscreen display shows the information for fire alarm, trouble, supervisory and other related information all the time. AW-FP100 series can be configured with just a few devices for small building applications, or for a large area or high-rise application. Simply add additional equipment to suit the application like detectors, modules and other compatible devices. It is supplied with cabinet of IP 30 rating (standard). This panel fully comply with the requirement of EN 54-2 and EN 54-4.

#### The AW-FP100 fire alarm control panel offers the following features

- 7" Touchscreen LCD color display
- 250 intelligent detectors or modules for one loop circuit
- Up to 8 Loop Cards can be installed and configured
- 2-Wire cable for all addressable devices
- Network Available Options: GSM/IP/Cloud/Modbus
- Graphic remote monitor access system

## AW-FP200 Wired And Wireless Addressable Fire Alarm Control Panel

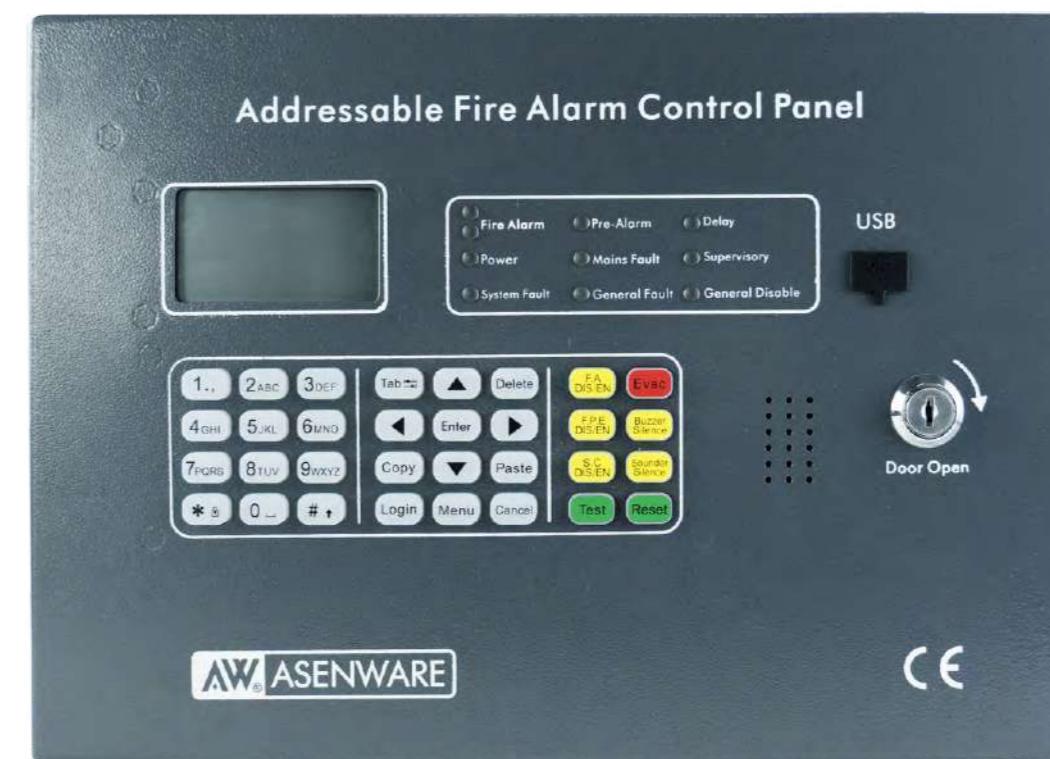


The AW-FP200 series addressable fire alarm control panel is designed with 7-inch LCD display touch screen with button operation, easy to operate, and nice human-computer interface. This machine can be connected to 8 loops. Each loop can be connected to 250 devices, such as smoke detectors, temperature detectors, input/output modules, each loop can be connected to 10 groups of wireless loops, a group of wireless loops can be connected to 20 devices, such as smoke detector, temperature detector, input and output module, etc.

## The AW-FP200 fire alarm control panel offers the following features

7 inch color LCD display, touch screen operation
All addressable devices use a two-wire system
A wired loop can connect 250 wired addressable devices, including 10 groups of wireless loops.
One set of wireless loops can connect to 20 devices
Max 8 loop cards can be installed
Up to 999 records of history can be saved (save when power off)
Multiple access levels can be set
It has a rechargeable backup battery
Can simply judge the running status of the machine based on the LED lights
Automatic search device
Each of the 8 panels can be controlled remotely
USB software upper computer to check and set the device status and fire history records
It can bind 10 mobile phone numbers to receive panel alarm information. (The GSM module must be added)

## AW-FP128 Wired And Wireless Addressable Fire Alarm Control Panel



AW-FP128 wired and wireless fire alarm control panel adopts 3.2-inch LCD screen, key operation, simple operation, beautiful man-machine interface. The wired circuit of the machine can be connected to 128 devices, 80 groups of wireless circuits, a wireless circuit can be connected to 20 wireless devices, such as smoke detector, temperature detector, input and output module, etc.

## The AW-FP128 wired and wireless addressable fire alarm control panel offers the following features

3.2-inch LCD display screen operation.
All addressable devices use a two-wire system
A single loop can connect 128 wired addressable devices
Up to 999 records of history can be saved (save when power off)
There are four access levels
It has a rechargeable backup battery
Can simply judge the running status of the machine based on the LED lights
Automatic search device
Each of the 8 panels can be controlled remotely
USB software upper computer to check and set the device status and fire history records



**Addressable Smoke Detector**  
AW-D101



**Addressable Heat Detector**  
AW-D102



**Addressable Smoke and Heat Detector**  
AW-D138

Operating Voltage	18V~28V DC
Standby Current	≤2.5mA
Alarm Current	≤3mA
Smoke Sensitivity	0.18-0.3dB/m

Operating Voltage	18V~28V DC
Standby Current	≤2.5mA
Fix Temperature Alarm	57°C(135°F)
Rate-of-Rise Alarm	7.1°C/5SA2R

Operating Voltage	18V~28V DC
Standby Current	≤2.5mA
Smoke Sensitivity	0.18-0.3dB/m
Fix Temperature Alarm	57°C(135°F)
Rate-of-Rise Alarm	7.1°C/5SA2R



NEW



NEW



NEW

**Wireless Addressable Smoke Detector**  
AW-D603L

**Wireless Addressable Heat Detector**  
AW-D604L

**Wireless Addressable Smoke & Heat Detector**  
AW-D605L

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Smoke Alarm Sensitivity	0.18-0.3dBm
Fix Temperature Alarm	0 - 40°C (32~104°F)
Wireless transmit power	+20dB

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Fix Temperature Alarm	57°C (135°F) A2R
Rate-of-Rise Alarm	≥10°C/2M A2R

Operating Voltage	3V DC
Alarm level	≥85db /3m
Fix Temperature Alarm	57°C (135°F) A2R
Rate-of-Rise Alarm	≥10°C/2M A2R



**Addressable Alarm Bell**  
AW-D109



**Addressable Strobe Sounder**  
AW-D106



**Addressable Manual Call Point**  
AW-D135A

Operating Voltage	18V~28V DC
Standby Current	≤3mA
Alarm Current	≤50mA
Alarm SPL	≥ 95 dB
Size	Dia. 150mm

Operating Voltage	18V~28V DC
Standby Current	≤3mA
Alarm Current	≤60mA
Alarm SPL	≥ 100 dB

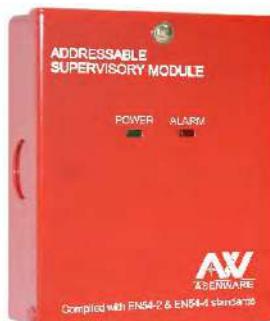
Operating Voltage	18V~28V DC
Working Current	≤4mA
IP Rating	IP30
Green LED indicator	Normal Condition
Red LED indicator	Alarm Condition

### Addressable Monitor Module

AW-D110



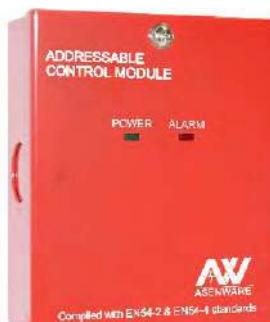
AW-D110 is an intelligent addressable monitor module, which can be configured with Asenware AW-FP100 Series Addressable Fire Alarm Control Panel. Each point (device) can be given specific ID or individual address, which allows the panel to continuously monitor specific location (point). The module can be connected to Asenware conventional manual call point and conventional detector.



### Addressable Supervisory Module

AW-D111

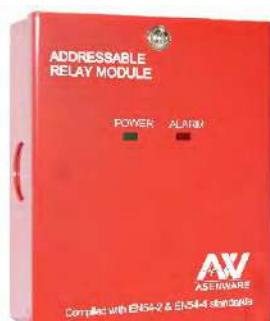
AW-D111 is an intelligent addressable supervisory module, which can be configured with Asenware AW-FP100 Series Addressable Fire Alarm Control Panel. Each point (device) can be given specific ID or individual address, which allows the panel to continuously monitor specific location (point). This module can be connected with conventional beam smoke detector, conventional flame detector, conventional gas detector.



### Addressable Control Module

AW-D112

AW-D112 is an intelligent addressable control module, which can be configured with Asenware AW-FP100 Series Addressable Fire Alarm Control Panel. Each point (device) can be given specific ID or individual address, which allows the panel to give a voltage output signal(24VDC) to control FPE or any other devices. AW-D112 control modules provides a notification circuit to activate the notification devices conventional bell and Sounder strobe.



### Addressable Relay Module

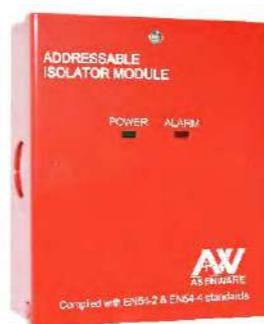
AW-D113

AW-D113 is an intelligent addressable relay module, which can be configured with Asenware AW-FP100 Series Addressable Fire Alarm Control Panel. Each point (device) can be given specific ID or individual address, which allows the panel to give a relay output signal to control FPE or any other devices. AW-D113 control modules provides a notification circuit to activate the notification devices conventional bell and Sounder strobe.

**Addressable Isolator Module**

AW-D114

AW-D114 is an intelligent addressable isolator module, which can be configured with Asenware AW-FP100 Series Addressable Fire Alarm Control Panel. AW-D114 short-circuit isolator module is used to make sure the short circuit on the branch of the loop cannot affect the normal operation of the loop circuit

**Addressable I/O Module**

AW-D119

The AW-D119 I/O module is used with AW-FP100 series addressable fire alarm control panel. It is mainly used to realize an output control for fire linkage equipment (such as fire alarm bell and strobe horn) and receive the fire signal for the detector which connecting to this module through the input port. And it can receive the feedback signals of the fire linkage equipment so that a judgment on whether or not the fire linkage equipment is operating normally can be done.

**CAN Bus Transmitter**

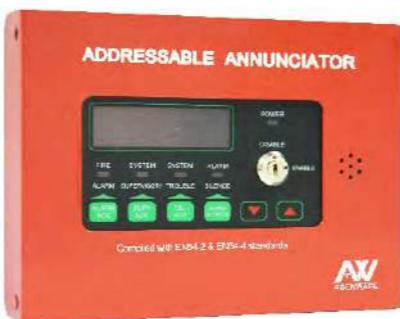
AW-D122

This CAN Bus Transmitter AW-D122 is designed for extend the distance of CAN Bus communication. It is suggested to be installed over each 400 meters.

**Addressable Annunciator**

AW-D116

Features
Three lines in LCD, each line 40 characters
LED indication for alarm, fault and supervisory
Push buttons to acknowledge the silence
Lamp test from key switch

**Addressable LPG Gas Detector**

AW-D132A

The gas detector is designed for single station use or for connecting to fire alarm or security alarm panel. Small and compact, the design and color makes it ideal for use in the home, small commercial properties, and recreational vehicles. It is intended to detect leakage of natural gas (methane gas), town gas, and bottled gas (propane gas). The gas detector can be mounted high (for methane gas) or low (for propane (LPG) gas). It is equipped with a sturdy mounting bracket for quick, easy and safe installation.

**Addressable Carbon Monoxide Detector**

AW-D125A

The addressable carbon monoxide detector AW-D125A is an intelligent detector which can be configured with Asenware AW-FP100 series addressable fire alarm control panel. Each point (device) can be given specific ID, which allows the panel to continuously monitor specific detector location (point).

**Isolator base**

AW-D115

AW-D115 isolator base (hereinafter referred to as AW-D115), mainly used to isolate a short circuit on the detector, to make sure other devices on the bus (including Loop in addressable system and 24VDC in conventional system) to ensure normal operation.



**Programmer**  
AW-PR101L



**Addressable Detector Strobe Sounder Base**  
AW-D120



**4G GSM Module**  
AW-FP100GSM-4G

**Addressable Annunciator Board**

AW-D117&amp;AW-D118

Features	
AW-D117	24 Zones Addressable Annunciator LED Main Board
AW-D118	24 Zones Addressable Annunciator LED Extension Board

**Addressable Power Transmitter**

AW-D121

Addressable Power Transmitter, an intelligent power supply, which is designed to provide auxiliary power when there is not enough power from panel to devices.

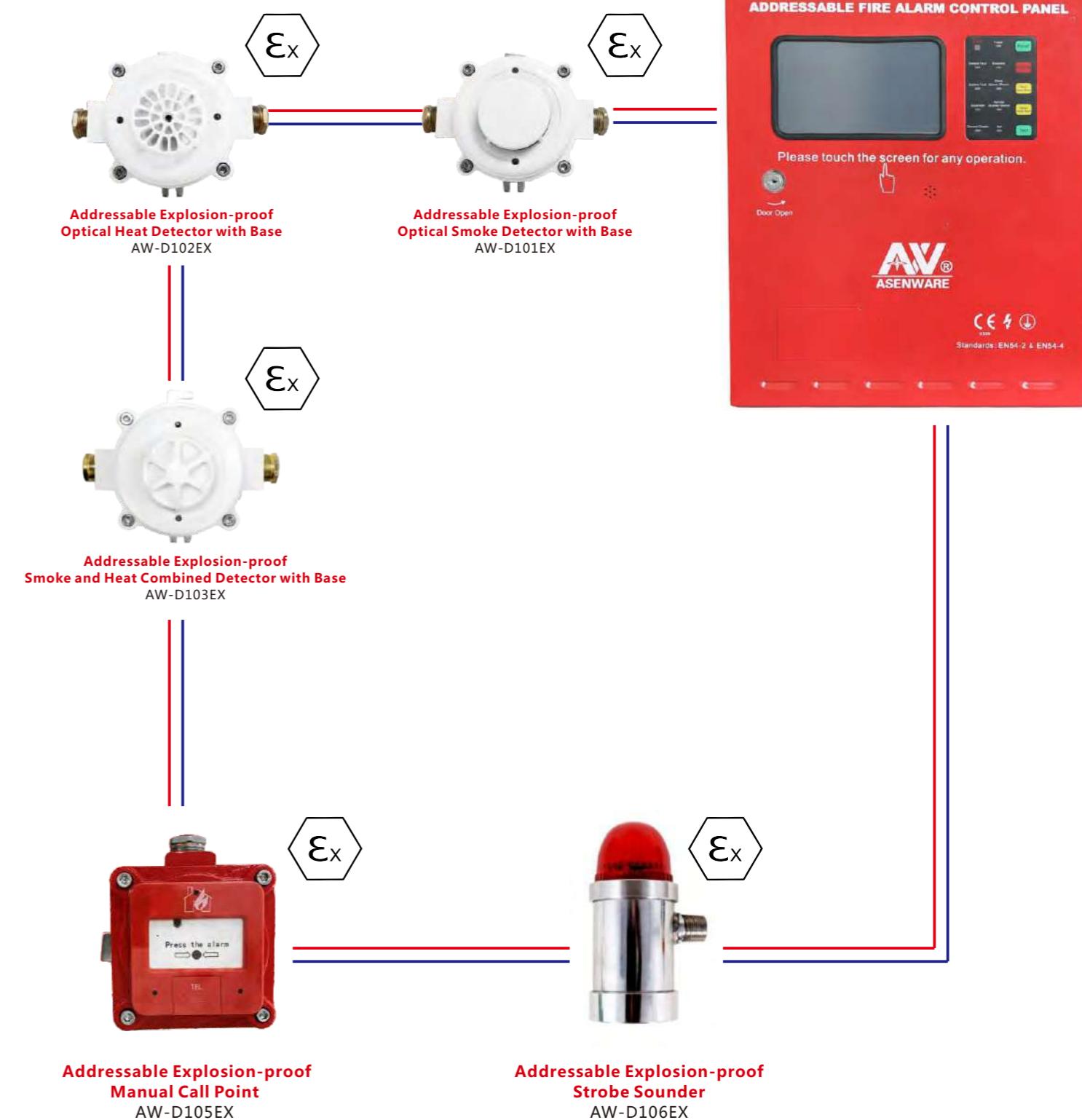
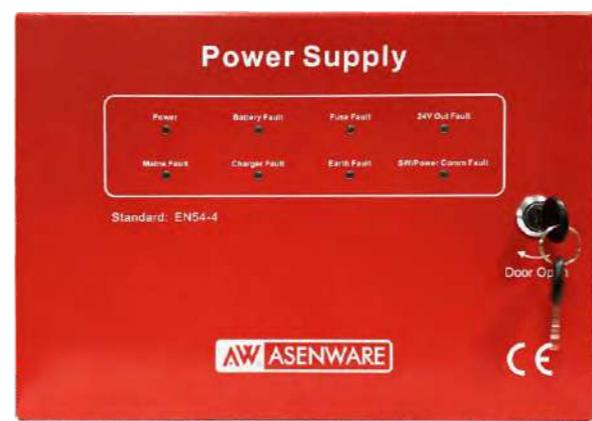
Features	
Addressable	
2.5A@24VDC output	
EN54-4 standard	
Include battery charger	
12V2.3AH*2 batteries optional	

**Power Supply**

AW-D121C

The AW-D121C Power Supply is used with AW-CFP2166 series conventional fire alarm control panel. It is mainly used to increase the load capacity of the panel. And it can reset the output of 24VDC by 3 inputs (volt free input, voltage input and RS485).

Features	
Surface mounting	
Working status indicators	
24VDC output short circuit protection function	
Selectable input modes to reset 24VDC out	
Compatible with the latest EN54-4 standard	



**ASENWARE Quality Policy:**  
Our products must comply with international standards, and must be stable and reliable in long term working.



**Addressable Explosion-proof Optical Smoke Detector with Base**  
AW-D101EX



**Addressable Explosion-proof Optical Heat Detector with Base**  
AW-D102EX



**Addressable Explosion-proof Smoke and Heat Combined Detector with Base**  
AW-D103EX

Main Voltage:	Loop 24VDC
Operating current:	Monitor: $\leq 1.2\text{mA}$ Alarm: $\leq 2.5\text{mA}$
Smoke Alarm Sensitivity:	0.18dB/m~0.3 dB/m
Ex-Atex Protection Level:	Gb/Exib Dt DA21 IP65 T85
Temperature range	-10 to 50°C

Main Voltage:	Loop 24VDC
Operating current:	Monitor: $\leq 1.2\text{mA}$ Alarm: $\leq 2.5\text{mA}$
Fixed temperature:	alarm 57°C(135°F) A1R
Ex-Atex Protection Level:	Gb/Exib Dt DA21 IP65 T85
Rate-of-rise alarm:	7.1°C/5s A1R

Main Voltage:	Loop 24VDC
Operating current:	Monitor: $\leq 1.2\text{mA}$ Alarm: $\leq 2.5\text{mA}$
Smoke Alarm Sensitivity:	0.18dB/m~0.3 dB/m
Ex-Atex Protection Level:	Gb/Exib Dt DA21 IP65 T85
Rate-of-rise alarm:	7.1°C/5s A1R

The screenshot shows the ASENWARE Global Fire Alarm Graphic Monitoring System. The main window displays a night-time aerial view of a city skyline with illuminated buildings. On the left, a table lists devices connected to Loop 192.168.1.40, including a Smoke Detector, Manual Call Point, and Heat Detector. On the right, a detailed configuration window for a device is open, showing fields for Address, Device, and Location, along with a list of specific device details.



**Addressable Explosion-proof Strobe Sounder**  
AW-D106EX



**Addressable Explosion-proof Manual Call Point**  
AW-D105EX

Main Voltage:	Loop 24VDC
Operating current:	Monitor: $\leq 1.2\text{mA}$ Alarm: $\leq 650\text{mA}$
SPL:	110dB-120dB
Ex-Atex Protection Level:	Gb/Exib Dt DA21 IP65 T85
Temperature range	-10 to 50°C

Main Voltage:	Loop 24VDC
Alarm Current:	$\leq 10\text{mA}$
Ex-Atex Protection Level:	Exd II Ct6
Temperature range	-20 to 50°C

## Features

- Support LAN and CLOUD mode
- Multi Level Management
- Automatically send fire or fault events Emails & SMS to the building managers, engineers or concerned person
- CLOUD mode can monitor all running panels around the world
- User-friendly, easy to operate and manage
- Aesthetic design while maintaining the simplicity in drag and drop feature for devices to the layout



## » LPCB Conventional Fire Alarm Control System



**Horn Strobe**  
AW-CSS2166-4



**Horn Strobe**  
AW-CSS2166-5



**Conventional Strobe Sounder**  
AW-CSS2166-3

Operating Voltage	12/24VDC
Operating Current	≤100 mA
Sound Level	≥85dB at 10 feet
Flash Period	≤2.0 S
IP Rating	IP33

Operating Voltage	12V/24V DC
Operating Current	≤350 mA
Sound Level	≥112dB at 10 feet
Flash Period	≤2.0 S
Alarm Sound Types	1 Kinds

Operating Voltage	DC15V-30V
Operating Current	30mA
Sound Level	≥ 88dB
Flash Period	≤2.0S
Alarm Sound Types	1 kind

## » Battery Detector Series



**Standalone Wireless Battery Wifi Smoke Detector**  
AW-D611W



**Standalone Smoke Detector With Blister Pack**  
AW-D611



**10 Years Standalone Smoke Detector**  
AW-D615

Operating voltage	9VDC
Monitoring Status	≤8uA
Alarm Status	≤400mA
Alarm SPL	≥85dB@3m



**Repeater**  
AW-CRP2166



**Entrance LED Indicator**  
AW-EL102



**Conventional UV Flame Detector**  
AW-FD602-UV



**Wireless Addressable Smoke Detector**  
AW-D603L



**Wireless Addressable Heat Detector**  
AW-D604L



**Wireless Addressable Smoke & Heat Detector**  
AW-D605L

Operating Voltage	18V-28V DC
Communication Mode	RS485
Working Humidity	≤93% non-condensing
Working Temperature	-10°C ~ + 50°C
Size	190*270*30mm
GSM module	Optional

Operating Voltage	2.5VDC
Operating Current	≤5mA
Product Size	70.5*36* 38 mm
Embedded Hole Size	Length:26.5mm Width: 55.5 mm Depth:> 8mm

Operating Voltage	12V - 30V DC
Standby Current	≤10 mA
Alarm Current	≤30 mA
Detection Range	Grade I, 25m@flame



**4G GSM Module**  
AW-GSM200

Main-Voltage	9-28VDC
Operating current	≤200mA
Temperature range	-5°C to 40°C
Ambient Humidity	5-95% RH

Operating voltage:	9-28VDC @Zone
Standby Current:	≤120uA @Zone 24VDC
Maximum Alarm Current (LED on)	≤ 15 mA @Zone 24VDC



**Conventional Combined Smoke And Heat Detector**  
AW-D138C



**10 Years Standalone Battery Heat Detector**  
AW-D616

Operating voltage:	3VDC
Monitoring Status	≤8uA
Alarm Status	≤20mA
Alarm SPL	≥85db@3m



**Standalone Heat Detector**  
AW-D612

Main Voltage	9V DC
Monitoring Status	≤8uA
Alarm Status	≤20mA
Weight	about 120g



**Conventional 4 Wire CO detector**  
AW-D125C  
**Standalone battery CO detector**  
AW-D125S

Operating Voltage	9V-28V DC
Standby Current	120uA
Alarm Current	20mA
Detection Range	≥ 100PPM



**220V Standalone LPG Gas Detector**  
AW-D132  
**Addressable LPG Gas Detector**  
AW-D132A  
**24V DC 4 wire LPG Gas Detector**  
AW-D132C-4W

Operating Voltage	24V DC
Temperature	-10°C to +50°C
Sound Level	85dB @3m
Ambient Humidity	≤95% RH

### 4 Wire Conventional UV Flame Detector

AW-D146R

This UV flame detector uses the best flame sensor. It has sensitive response and large detection angle, and it is consistent and long-term stable and reliable. The red LED indicators on the flame detector provide local 360° visual alarm indication.

Operating Voltage	DC12-28V
Alarm level	≥85dB /3m
Sensitivity	Grade 1
Operating Temperature	-10°C~50°C

NEW



### Beam Smoke Detector

AW-BK901



The AW-BK901 infrared linear reflex beam smoke detector, is being designed for fire prevention in the open area, is used with the fire alarm control panel. The detector is made up of the combination unit of the emitter and the receiver as well as the reflecting mirror. The signal issued by the emitter enters into the receiver after reflection by the reflector.

Operating Environment	
Power supply voltage: 16V-28VDC	Alarm current <33mA
Overall power consumption: <3W	Debug current <20mA
Monitoring current 12mA	

Use conditions: Temperature: -10°C ~ +50°C , Relative humidity <95%

Protective area: The maximum protective area of the detector is 1400m<sup>2</sup> (14x100=1400m<sup>2</sup>) and the maximum width is 14m.

AW-BK901-20 20meters with 1 reflector

AW-BK901-40 40meters with 1 reflector

AW-BK901-70 70meters with 4 reflectors

AW-BK901-100 100meters with 4 reflectors



Dust Smoke Detector  
AW-CSD313

### Wireless Conventional Fire Alarm Control Panel

AW-CFP2166-4W

Max 20 wireless devices in one group



#### AW-CFP2166-4W Wireless version features:

- 1.Can connect both wired and wireless devices
2. Each zone can connect up to 20 wireless devices and 20 wired devices, increasing the capacity of each zone
3. Connect wireless devices, save cost
4. Wireless detectors are low power and can be used for up to 5 years
5. Each wireless detector contains a sounder, Alarm>75db
6. The control panel can remotely reset and mute the wireless detector



Wireless Addressable Smoke Detector  
AW-D603L

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Smoke Alarm Sensitivity	0.18-0.3dBm
Fix Temperature Alarm	57°C (135°F) A2R
Wireless transmit power	+20dB



Wireless Addressable Heat Detector  
AW-D604L

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Fix Temperature Alarm	57°C (135°F) A2R
Rate-of-Rise Alarm	≥10°C/2M A2R
Wireless transmit power	+20dB



Wireless Addressable Smoke & Heat Detector  
AW-D605L

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Fix Temperature Alarm	57°C (135°F) A2R
Rate-of-Rise Alarm	≥10°C/2M A2R
Wireless transmit power	+20dB



Wireless Strobe Sounder  
AW-D106A

Operating Voltage	Loop 24V
Operating Frequency	428MHz to 438MHz
Protection class	IP30
Alarm SPL	≥ 100 dB
Flash Period	1.0 Sec.



Wireless Manual Call Point  
AW-D135W

Operating Voltage	3V DC
Operating Frequency	428MHz to 438MHz
IP Rating	IP30
Green LED indicator	Normal Condition
Red LED indicator	Alarm Condition



Wireless Addressable Programmer  
AW-PR101L



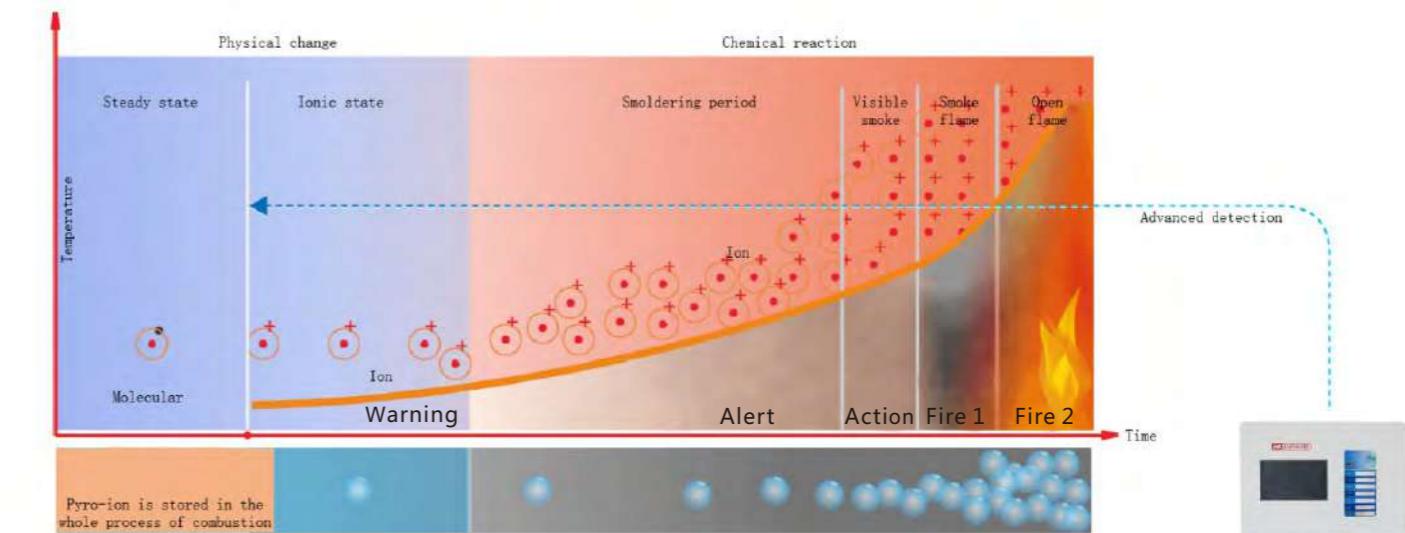
## Combustion analysis:



**Aspirating Smoke Detection System**  
AW-AS200

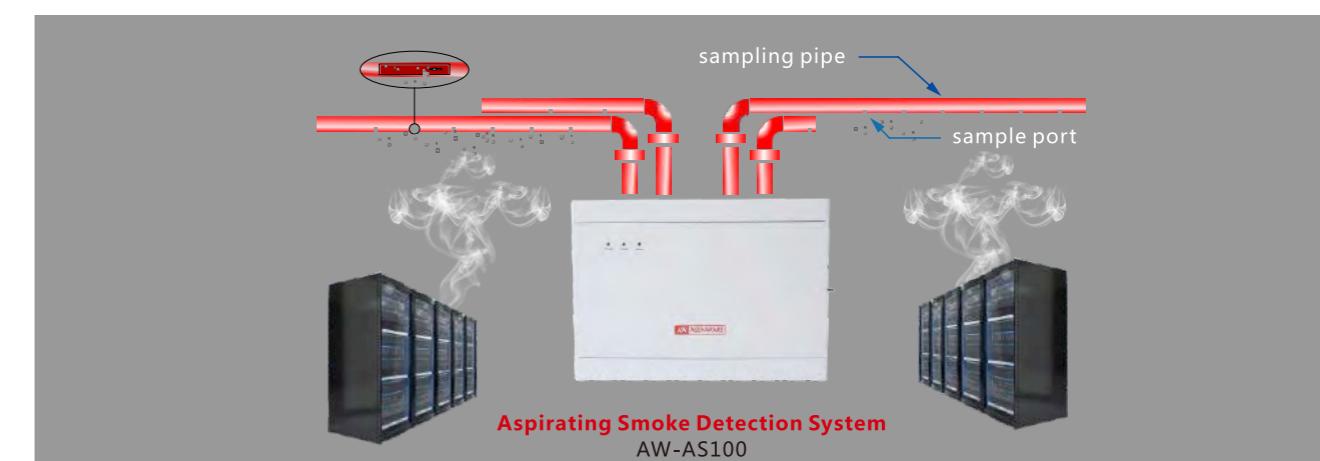
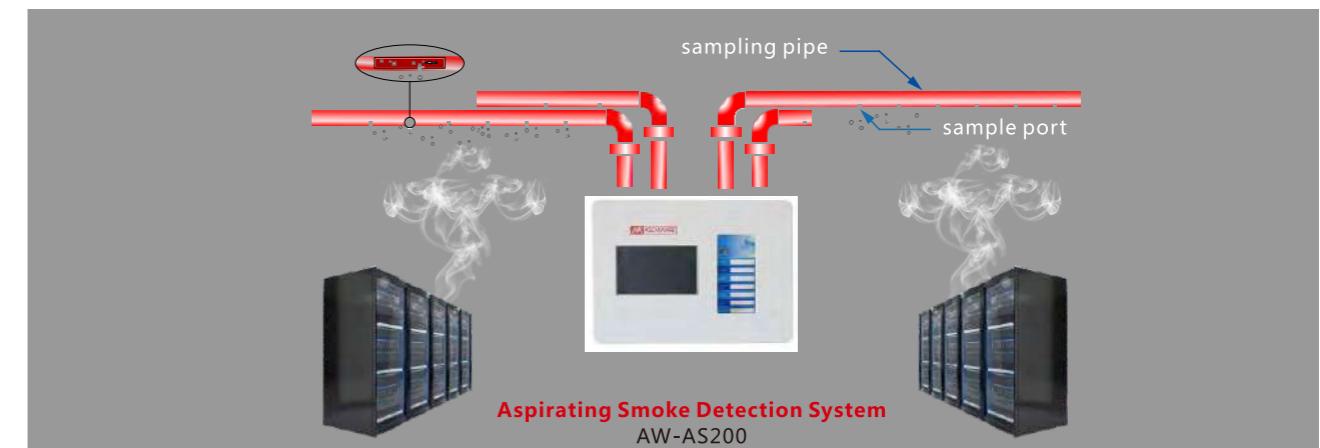


**Aspirating Smoke Detection System**  
AW-AS100



Advantages		
Earlier detection with high sensitivity		
Immunity to false alarms		
Cost-effective maintenance solution		

Features		
Cloud Chamber principle		
7 inch color touch screen		
More than 10 years service life		
Automatic cleaning function		
Convenient maintenance solution		
Multifunctional network solutions		





### Weatherproof Fire Alarm Series

Features
Weather proof
Dustproof
Good sealing
Factory direct sales
Quality assurance



**Horn Strobe**  
AW-CSS2166-4W

Operating Voltage	12/24VDC
Operating Current	≤100 mA
Sound Level	≥85dB at 10 feet
Flash Period	≤2.0 S
IP Rating	IP33



**Smoke detector Weatherproof base**  
AW-WB02

Features
Diameter: 116mm
Inner diameter: 112.5mm
Aperture: 34mm
Height: 64mm



### Applicable Products

**Applicable Products**  
Suitable for most models of smoke detector



**Weatherproof Box**  
AW-WB001



**Conventional Manual Call Point**  
AW-D135C

Features
Protection level:IP67
Function:Dust-proof ; Rain-proof
L*W*H:176*125*72mm

### Explosion-Proof Infrared Beam Smoke Detector

AW-BK901EX



The AW-BK901EX type explosion-proof infrared beam smoke detector is a non-coded reflective linear infrared beam smoke detector. The detector must be used in conjunction with the reflector, and one or four reflectors should be used according to the installation distance between the two devices.

The detector has advanced functions and powerful analysis and judgment capabilities. Through our original program, it can automatically complete system debugging, compensation for changes in the external environment, fire alarm and fault judgment, and the output status is displayed through indicator lights and terminals.



Features
Newest and reasonable structure design
Sensitive adjustment, accurate positioning
Good performance, easy to install



**Explosion-proof fire alarm bell**  
AW-CBL2166EX



**Explosion-proof safety barrier**  
AW-D137EX



**Explosion-proof strobe sounder**  
AW-CSS2168EX

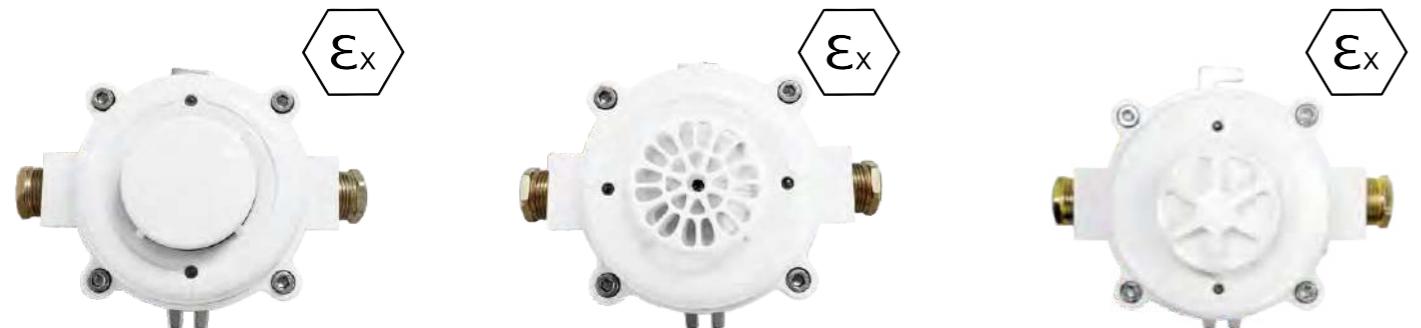


**Explosion-proof Siren**  
AW-SP04EX

Main Voltage	24 VDC
Operating current	Alarm≤25 mA
Ex-Atex Protection Level	Exd II CT6 Gb
Size (L*W*H)	260*152*80mm

Main Voltage	DC 24V
Operating current	Alarm≤25 mA
Ex-Atex Protection Level	Exd II CT6 Gb
Size (L*W*H)	260*152*80mm

Main Voltage	DC 24V
Operating current	Alarm≤250 mA
Ex-Atex Protection Level	Exd II CT6 Gb
Size (L*W*H)	260*152*80mm



**Explosion-proof optical smoke detector**  
AW-CSD381EX

**Explosion-proof heat detector**  
AW-CTD382EX

**Explosion-proof smoke and heat combined detector**  
AW-D138EX

Model No.	AW-CSD381EX	AW-CTD382EX	AW-D138EX
Operating Voltage	DC24V ±3V(polarity)	DC24V ±3V(polarity)	DC24V ±3V(polarity)
Explosion-proof mark	Gb/ExibDtDA21IP65T85		
Monitoring Current	≤60µA	≤60µA	≤60µA
Alarm Current	10mA~30mA	10mA~30mA	≤30mA
Power Time	≤10S	≤10S	≤10S
Working Humidity	≤95% non-condensing	≤95% non-condensing	≤95% non-condensing
The outlet thread	G20	G20	G20



**Explosion-proof weatherproof strobe sounder**  
AW-CSS2167EX

**Explosion-proof manual call point**  
AW-D135EX

**Explosion-proof fire strobe**  
AW-CSS2166EX

Model No.	AW-CSS2167EX	AW-D135EX	AW-CSS2166EX
Operating Voltage	DC24V	DC24V	DC 24V
Standby Current	≤650mA	10mA	≤50mA
Operating Humidity	≤95% non-condensing	≤95% non-condensing	≤95% non-condensing
Working Temperature	-20 °C ~ + 50°C	-20 °C ~ + 50°C	-20°C~+50°C
Sound Pressure Level	110-120dB	N/A	N/A
Size	82mm, Height:170mm	130*135*64mm	152mm, Height:165mm

**Explosion-Proof Gas Detector**  
AW-CGD2166EX

AW-CGD2166EX intelligent digital readout transmitter is a four-wire system and meets the international standard digital transmitter which can convert the gas concentrations into standard a 4-20mA current signal. It's suitable for the industrial LED to display and the sensor is easy to use and plug and play. AW-CGD2166EX has many advantages: high performance, stable and reliable operation, easy to install and maintain, and it can measure full range of gas and so on, which can meet the high demand in the industrial site safety monitoring. It's widely used in petroleum, chemical, engineering, metallurgy, petrochemical, gas transmission and distribution, biochemical, medicine, water treatment and other industries.



**Types of Combustible Gas**

CH4	C3H8	C6H14	Gasoline	C2H6O
CH4O	C3H6	C7H16	Mixture	CH2CL2
C7H8	C3H6O	C8H18	C10-H16	C4H8O2
C2H6	C4H10	C6H6	C4H10	C6H12O2
C2H4	C4H8O	C8H10	C3H8O	C2H4O
C2H2	C4H6	C8H12	C2H5CL	C3H6O
C2H6O	C5H12	H2	Br2	Prop+But

**Types of Toxic Gas**

CO	O2	O3	H2S	H2
CL2	NH3	SO2	NO	NO2
CH2O	HCL	HCN	EX	NH3



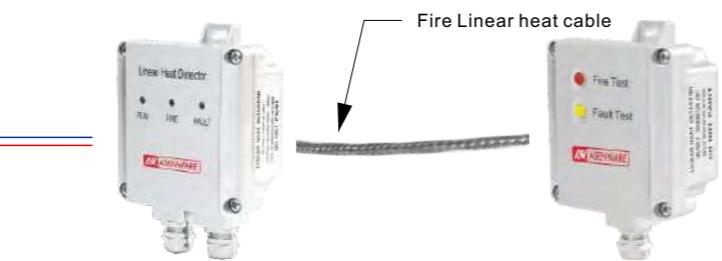
Product Name	Explosion-proof ultraviolet & infrared 3 flame detector	Explosion-proof Ultraviolet Flame Detector
Model	AW-FD704EX	AW-FD706EX
Spectrum Range	UV(185-260nm),IR (3.8um/4.3um/5.0um)	UV 185-260nm
Detection Angle	120°	120°
Sensitivity Level	Grade I	Grade I
Main Voltage	24VDC(18-30VDC)	24VDC(18-30VDC)
Ex-Atex Protection Level	Exd IIIC T6 Gb/Ex tD A21 T80°C	Exd II C T6 Gb/tD A21 IP66 T80°C
Protection class	IP66/IP67	IP66/IP67
Environmental	Temperature range: -10 to 55°C (14~131°F) -40 to 70°C (-40~158°F, Enhance Type) Humidity: 0 to 96% RH, non-condensing	Temperature range: -40°C ~ 70°C Storage temperature range: (-40~85°F) Humidity: 0 ~ 96%RH (non-condensing)
Electrical Interface	RS-485/RS-232 ; HART	1x3/4NPT, M25*1.5,G3/4, optional
Size	119mm* 141mm* 120mm	120mm* 95mm* 85mm
Weight	About 3 Kg	About 3 Kg
Remote control function	Adjust the sensitivity level: 1 to level 3 Automatic reset	



Product Name	Explosion-proof Ultraviolet & Infrared Combined Flame Detector	Explosion-proof Infrared 3 Flame Detector
Model	AW-FD707EX	AW-FD708EX
Spectrum Range	UV 185-260nm IR 4.3-5.0μm	IR 3.8-5.0μm
Detection Angle	120° 40m	90° 40m
Sensitivity Level	Grade I	Grade I
Main Voltage	24VDC(18 to 30VDC)	24VDC(18 to 30VDC)
Ex-Atex Protection Level	Exd II C T6 Gb/tD A21 IP66 T80°C	Exd II C T6 Gb/tD A21 IP66 T80°C
Protection class	IP66/IP67	IP66/IP67
Environmental	Temperature range: -40 to 70°C (-40~158°F) Humidity: 0 to 96% RH, non-condensing	Temperature range: -40 to 85°C Humidity: 0 to 96% RH, non-condensing
Electrical Interface	1x3/4NPT, M25*1.5,G3/4, optional	1 × 3/4NPT、 M25*1.5、 G3/4 (Adapters can be customized according to requirements)
Size	120mm* 95mm* 85mm	120mm* 95mm* 85mm
Weight	About 3 Kg	About 3 Kg
Remote control function	Adjust the sensitivity level: 1 to level 3 Automatic reset	



**Conventional Fire Alarm Control Panel**  
AW-CFP2166-4



**Interface Module**  
AW-D401

**End of line Module**  
AW-D402



**Fire Linear Heat Cable**

AW-D4068(68°C)
AW-D4088(88°C)
AW-D4105(105°C)
AW-D4138(138°C)
AW-D4180(68/88/105/138/180°C)



### Linear Heat Detection Cable

Features
Line coverage...continuous sensitivity.
Six alarm temperature ratings.
Withstands severe environmental conditions.
Approved for hazardous locations.
Easy to install, test.
Compatible with other devices on same circuit.



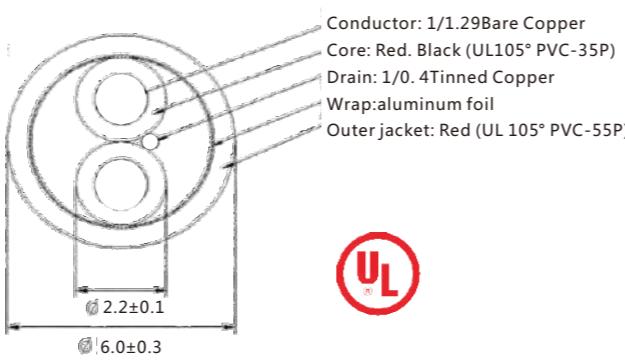
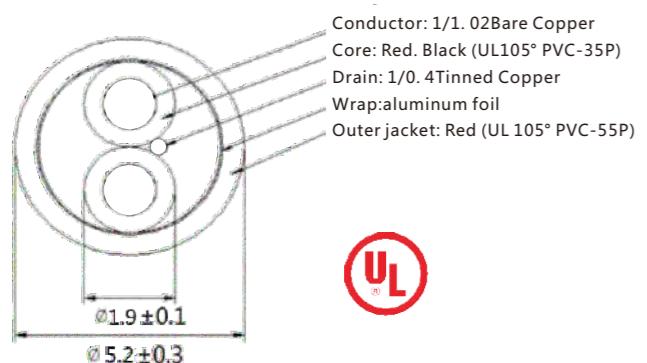
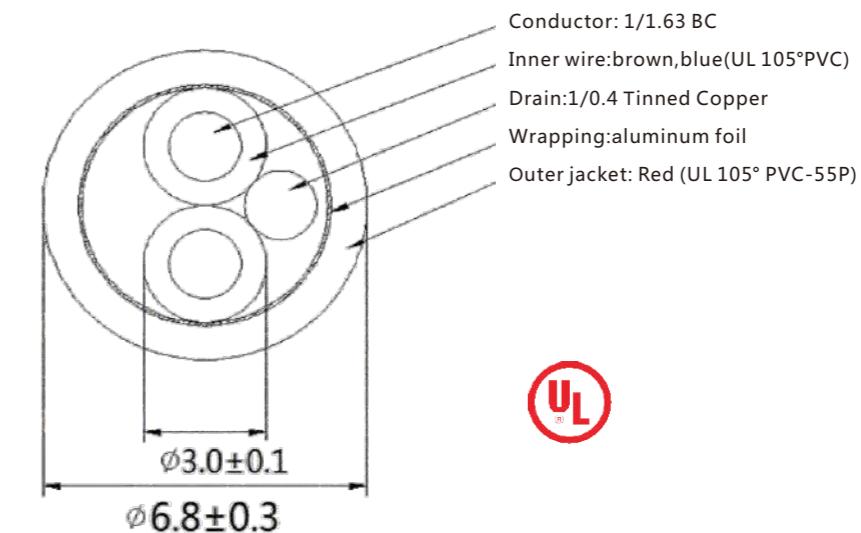
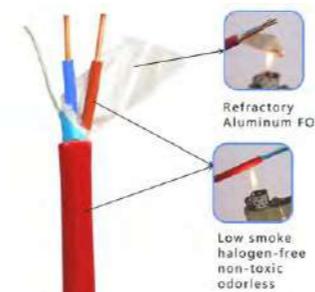
Dimensions	90mm×85mm×52mm
Operating environment	Temperature:-45°C--+60°C
Relative humidity	95%
IP Rating	IP66

Operating Voltage	No Electronics
Operating environment	Temperature:-45°C--+60°C
Relative humidity	95%
IP Rating	IP66

Model	AW-D4068 (Conventional Type 68°C)	AW-D4088 (Conventional Type 88°C)	AW-D4105 (Conventional Type 105°C)	AW-D4138 (Conventional Type 138°C)	AW-D4180 (Conventional Type 180°C)
Parameter	AW-D4068-P (CR/OD Type 68°C)	AW-D4088-P (CR/OD Type 88°C)	AW-D4105-P (CR/OD Type 105°C)	AW-D4138-P (CR/OD Type 138°C)	AW-D4180-P (CR/OD Type 180°C)
Parameter	AW-D4068-E (EP Type 68°C)	AW-D4088-E (EP Type 88°C)	AW-D4105-E (EP Type 105°C)	AW-D4138-E (EP Type 138°C)	AW-D4180-E (EP Type 180°C)
Alarm Temperature	68°C	88°C	105°C	138°C	180°C
Ambient temperature (Max)	45°C	60°C	75°C	93°C	121°C
Ambient Temperature (Min)	-55°C for CR/OD Type -40°C for Conventional and EP Type	-55°C for CR/OD Type -40°C for Conventional and EP Type	-55°C for CR/OD Type -40°C for Conventional and EP Type	-55°C for CR/OD Type -40°C for Conventional and EP Type	-55°C for CR/OD Type -40°C for Conventional and EP Type
Storage Temperature	UP TO 45°C	UP TO 45°C	UP TO 70°C	UP TO 70°C	UP TO 105°C
Alarm Deviation	±3°C	±5°C	±5°C	±5°C	±8°C
Alarm Response Time (s)	10 (Max)	10 (Max)	15 (Max)	20 (Max)	20 (Max)

## Fire Proof Cable

Features
Oxygen-free Copper
High temperature resistance
Halogen and smoke free
Quality Assurance



Model	AW-FPLR2X1.0(18 AWG)
Conductor	1/1.02 solid bare copper
Max conductor resistant Ω/KM (20°C)	21.4
Insulation thickness	0.38 mm
Min insulation thickness	0.33 mm
Inner wire	brown.blue (flame retardant PVC)
Wire numbers	2 core
Drain wire	0.4mm tinned copper
Wrapping	Al-foil
Jacket	red (flame retardant PVC)
OD	5.2±0.3 mm
Jacket thickness	0.58 mm
Min jacket thickness	0.46 mm
Rated temperature	105°C
Rated voltage	300V
Fame retardant rating	Vw-1
Application	fire alarm systems

Model	AW-FPLR2X1.5 (16 AWG)
Conductor	1/1.29 solid bare copper
Max conductor resistant Ω/KM (20°C)	13.5
Insulation thickness	0.44 mm
Min insulation thickness	0.39 mm
Inner wire	brown.blue (flame retardant PVC)
Wire numbers	2 core
Drain wire	0.4mm tinned copper
Wrapping	Al-foil
Jacket	red (flame retardant PVC)
OD	5.8±0.3 mm
Jacket thickness	0.64 mm
Min jacket thickness	0.52 mm
Rated temperature	105°C
Rated voltage	300V
Fame retardant rating	Vw-1
Application	fire alarm systems

Model	AW-FPLR2X2.5 (14 AWG)
Conductor	1/1.63 solid bare copper
Max conductor resistant Ω/KM (20°C)	8.45
Insulation thickness	0.51 mm
Min insulation thickness	0.46 mm
Inner wire	brown.blue (flame retardant PVC)
Wire numbers	2 core
Drain wire	0.4mm tinned copper
Wrapping	Al-foil
Jacket	red (flame retardant PVC)
OD	6.8±0.3 mm
Jacket thickness	0.74 mm
Min jacket thickness	0.62 mm
Rated temperature	105°C
Rated voltage	300V
Fame retardant rating	Vw-1
Application	fire alarm systems

### Voice Evacuation Control Panel

AW-VP350

AW-VP350 Voice Evacuation Control Panel and speakers are standalone public audio system for emergency evacuation. When get alarm input from other fire alarm system or security alarm system, it can play the pre-recorded audio track to the speakers automatically. It also can broadcast the microphone real time sound, or other line in sound. It also support RS485 communication with ASENWARE AW-FP300 series addressable fire alarm control panel.



#### Features

- Maximum power output: 350Watt.
- Speaker driving mode: constant voltage.
- Evacuate message up to 1 minute.
- Background audio: USB2.0
- Complies with EN54 part 16.
- Network function (work with AW-FP300 series addressable fire alarm control panel)
- Maximum 15 pcs AW-VP350 can be connected with 1 pc AW-FP300 addressable fire alarm control panel.
- 2.6.2 Each AW-VP350 panel can be programmed to maximum 20 channels and controlled by AW-FP300 addressable fire alarm control panel



**Ceiling Speaker**  
AW-SP01

**Ceiling Speaker**  
AW-SP02



**Wall Mounted Speaker**  
AW-SP03



**15W Water Proof Speaker**  
AW-SP04



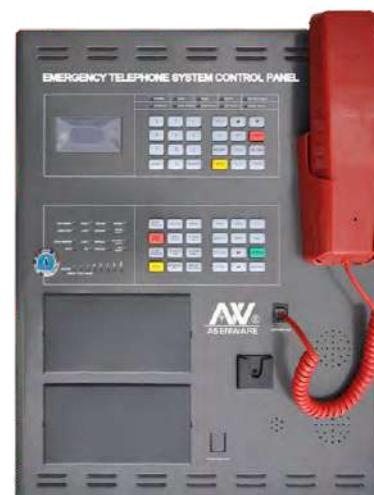
**30W Water Proof Speaker**  
AW-SP05

Model No.	AW-SP01/02	AW-SP03	AW-SP04	AW-SP05
Power	3-6W/6-10W	10-15W	15-30W	20-30W
Voltage	70/110V	70/110V	70/110V	70/110V
Loudest pressure level (1m)	92dB/95dB	95dB	118dB	118dB
Weight	0.8kg/1.3kg	0.8kg	1.45kg	1.21kg
Size	5inch/6.5inch	260*185*120mm	202*120*234mm	220*165*240mm

### Addressable Fire Telephone Panel

AW-FT599

The addressable fire telephone panel is suitable for communication and during any fire or emergency in the building. In case of fire alarm at the application site, the site personnel can call the host through extension and contact the control center in time. The operator in the control center can also call the extension at the site through the panel to know the situation on the site.



#### Features

- With the two-bus technology, the power supply and communication are compatible on two buses, and are not divided into the positive and the negative, convenient for debugging
- It has perfect detection measures, which can detect the short circuit and open circuit of the bus, and make sound and light alarm
- The anti-interference performance of hardware and software allows for the adaptability to various complex environments.
- The voice is subject to differential transmission on the bus, with strong anti-interference capability.
- The application of silica gel button presents a beautiful appearance, good hand feeling and long service life.
- The panel and extension can call each other and make full-duplex call, and the host can communicate with three extension telephones at the same time.
- It has the function of recording and displaying the calling and answering time, and can query 120 records of calling and response time between the panel and the extension.
- The recording is subject to circular coverage, first-in-first-out mode and automatic recording is enabled during a call.

### Conventional Fire Telephone System

AW-FTP2008(8 zones)

The conventional fire telephone panel AW-FTP2008 is a communication equipment which provides a convenient means of fire reporting. It has well-mounted structure and is easy to install, suitable for small systems. It can apply in scenarios like communication between the control room and the fireplace, fire-fighting command, evacuation rescue, etc.



**Addressable Fire Telephone Jack**  
AW-D501



**Conventional Fire Telephone Handset**  
AW-D502



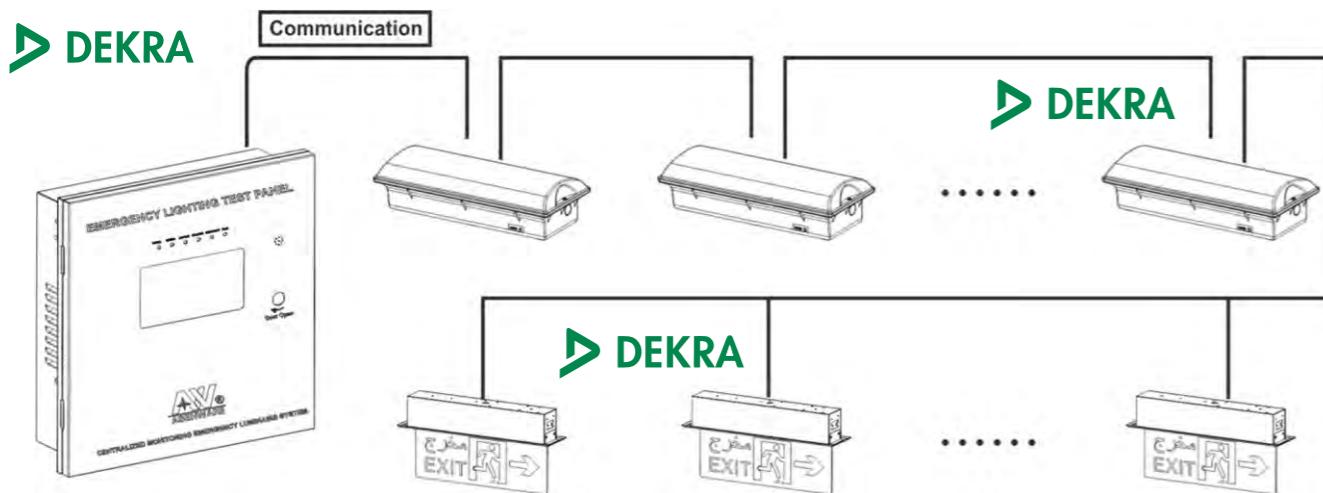
**Emergency Luminaire System**

This control system is designed for managing, testing, monitoring and controlling emergency lighting which is mounted dispersedly.

Features
7 inch colorful LCD display
Easy operating
Convenient using
Communicated by PLC
Easy Mounting
Low maintenance cost



Features
Maximum 500 lightings
Simultaneously and remotely control one or more lightings
More than 500 history events record
Up to 16-way non-source emergency input signs testing
Up to 16 lighting zones
Up to 16 testing groups
Detecting battery fault, LED source fault, AC fault and communication fault for single emergency lighting



The installation can be performed per below figure in actual condition. Exit Lights and Emergency lighting can be connected to directly from the panel and power would be supplied from the panel itself. Panel has two sources, one is AC mains and another one is 24 Volts battery (or two 12V batteries).

Photo	Product Name	Model No.	Parameters
	Emergency Lighting Test Panel	AW-EP500	<ul style="list-style-type: none"> <li>✓ Single loop</li> <li>✓ Maximum 500 emergency lights per loop</li> <li>✓ Up to 16 non-source emergency zone input</li> <li>✓ Up to 16 testing groups</li> </ul>
	Centralized Monitoring Emergency Luminaire	AW-CEL101	<ul style="list-style-type: none"> <li>✓ 220VAC 50/60Hz power supply</li> <li>✓ 3 Hours battery discharge time 48pcs LED lights</li> <li>✓ 670lm</li> </ul>
	Centralized Monitoring Exit Sign	AW-CEL301	<ul style="list-style-type: none"> <li>✓ 220VAC 50/60Hz power supply</li> <li>✓ 3 Hours battery discharge</li> <li>✓ time 16 pcs LED lights Double side</li> </ul>

**Conventional Emergency Light**

Photo	Product Name	Model No.	Parameters
	LED Emergency Light TUV Approved	AW-EL101	<ul style="list-style-type: none"> <li>✓ 110V-127VAC 50/60Hz</li> <li>✓ 220V-240VAC 50/60Hz</li> <li>✓ Non-maintained</li> <li>✓ LED 16pcs/bar, 1/2/3/5 bar</li> <li>✓ Nickel-cadmium or Lead-acid</li> </ul>
	Twin Lamp LED Emergency Light	AW-EL207	<ul style="list-style-type: none"> <li>✓ 220VAC 50Hz/60Hz ±10%</li> <li>✓ -5° C ~ 40° C Rh≤92% surface without condensation</li> <li>✓ SMD 2835 12PCS .</li> </ul>
	Twin-Spot Emergency Light	AW-EL203	<ul style="list-style-type: none"> <li>✓ 220V-240VAC 50/60Hz</li> <li>✓ Nickel-cadmium 3.6V</li> <li>✓ &lt;24 hours</li> </ul>
	Exit Sign TUV Approved	AW-EL301	<ul style="list-style-type: none"> <li>✓ 220VAC 50Hz + 10% - 15%</li> <li>✓ 1.2V 800mAh</li> <li>✓ 0.5 mm<sup>2</sup></li> </ul>
	Exit Sign	AW-EL302	<ul style="list-style-type: none"> <li>✓ 110V-120VAC or 220VAC 50Hz</li> <li>✓ AL housing and 6mm acrylic panel</li> <li>✓ 8 LED, 0.5W</li> <li>✓ 3.6V 500mAh Ni-Cd</li> <li>✓ &gt; 90 min</li> </ul>
	Twin Lamp Emergency Light	AW-EL208	<ul style="list-style-type: none"> <li>✓ 220VAC 50/60Hz</li> <li>✓ 2150lm</li> <li>✓ &lt;24 hours</li> <li>✓ 2*10w</li> </ul>
	LED Lamp Emergency Light	AW-EL103	<ul style="list-style-type: none"> <li>✓ 220VAC 50/60Hz</li> <li>✓ ≥220lm</li> <li>✓ &lt;24 hours</li> </ul>



**Smoke Detector Tester**  
AW-D201



**Smoke Detector Tester**  
AW-D201

Features
Length 1.6 meter x Dia.32mm
Light Weight Aluminium pole
Triggering mechanism
Aluminium case with lock

**Smoke & Heat Detector  
2 in 1 Tester**  
AW-D206



**Flame Simulator**  
AW-D204



**Smoke & Heat Detector  
Disassembly Tool**  
AW-D208

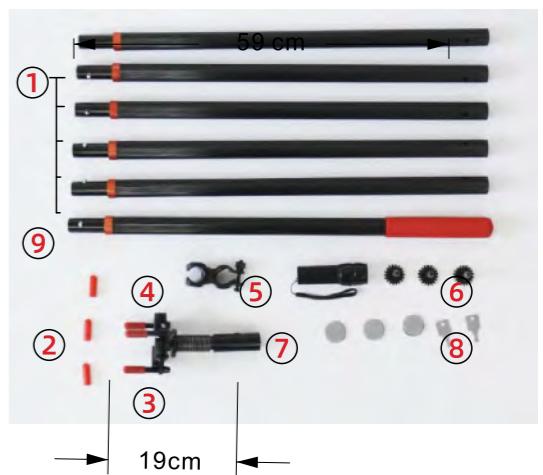


**Heat Detector Tester**  
AW-D202

Features
Heating Element:220V/100W or 110V/100W
Length 1.75meter x Dia.32mm Light weight Aluminum Pole
Cable Length 10 meters
Aluminum case with lock



**Smoke & Heat Detector Disassembly tool**  
AW-D208



#### Accessory list

① Connecting rod*5	⑤ Strong light flashlight
② Cylindrical fixture cap*3	⑥ Rotate tong*3
③ Mechanical disassembly head	⑦ Height adjusting gasket*3
④ Torch holder	⑧ Key*2
⑨ Handle rod	



**Flame Simulator**  
AW-D204



Features
Battery voltage:DC7.4V.2200MA/H
Charger output:DC8.4V, 1000MA
The total length of the tester:2.5m
Materials of the tester:aluminum
Materials of the connecting rod:stainless steel
Materials of package box:aluminum
Infrared waveband scope of (0.5 μm-5.5 μm)
ultraviolet waveband scope of (185nm-255nm)

**Smoke & Heat Detector 2 in 1 Tester**  
AW-D206



**Gas Extinguishing Release Control System**  
AW-GEC2169



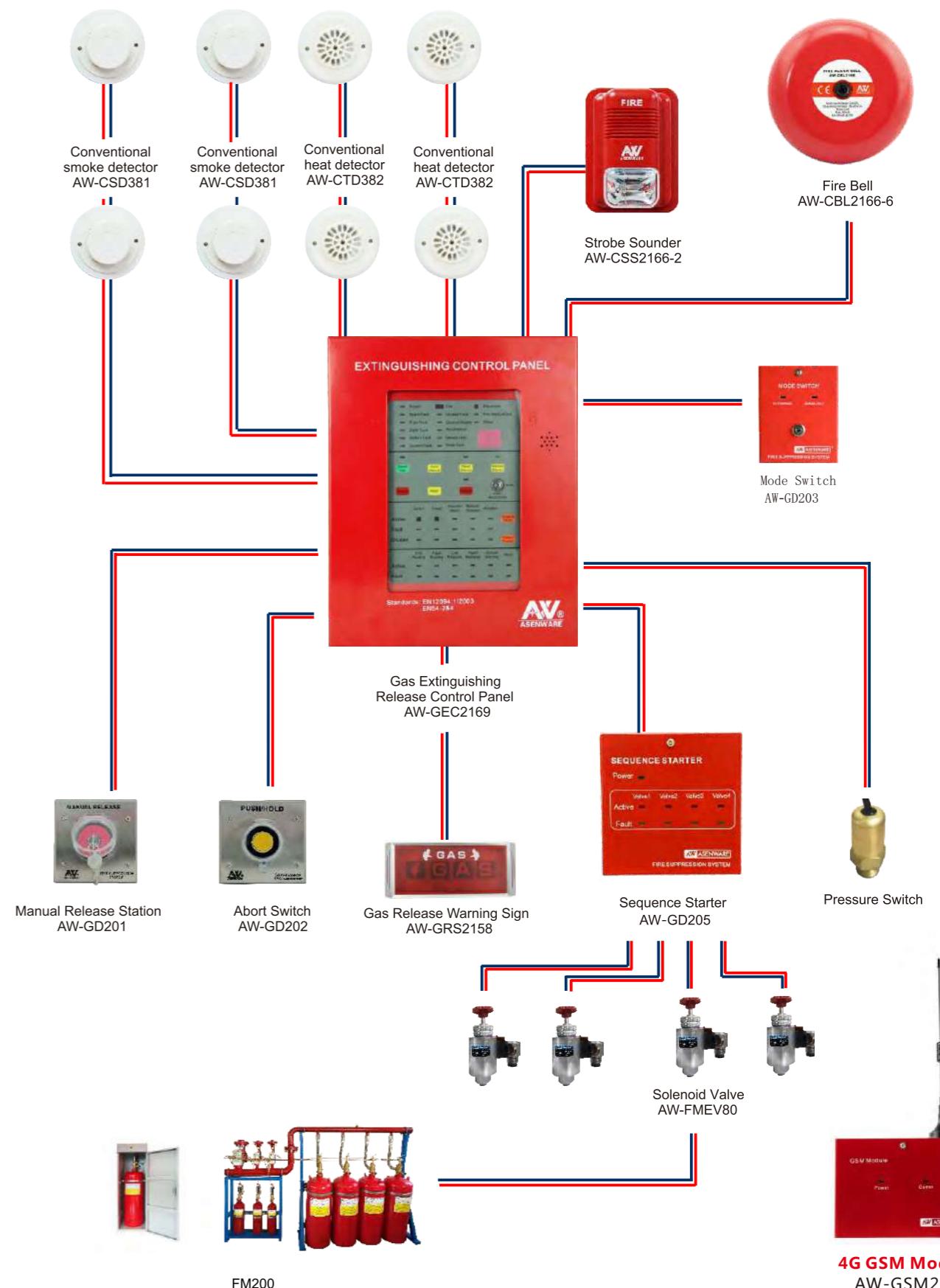
**Fire Extinguishing System**  
Fm200/FK-5-1-12



**CO2 Extinguishing System**

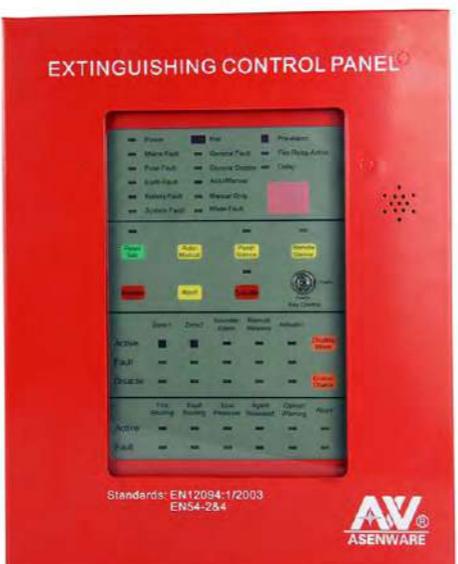


**Packaged Fire Pump System**



## AW-GEC2169 Extinguishing control panel

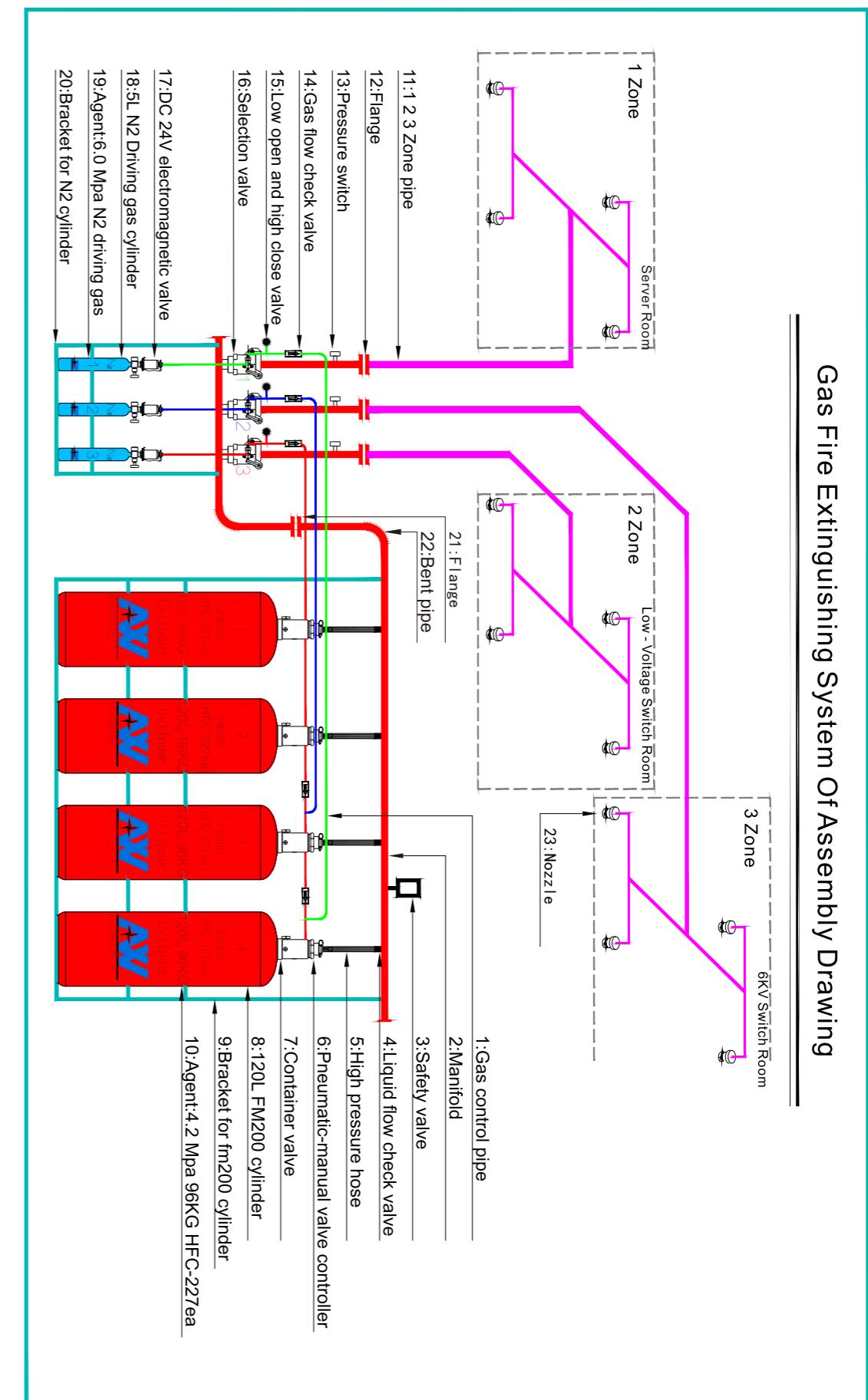
AW-GEC2169 gas extinguishing control panel is designed in compliance with the requirements of European standards of EN54-2, EN54-4 and EN12094-1. This panel can be used in FM200, CO<sub>2</sub>, IG541, N1230 and other gas fire extinguishing systems.



Features
Alarm input: four alarm zones signal input, each zone can connect up to 16 detectors.
EM valve output: control the output of electromagnetic valve.
Panel outputs: circuit fault output / alarm output/ fire extinguishing signal output/24VDC output other parts working condition.
Power output: resettable 24VDC output, 200mA current-limited protection.
Automatic power shift: 220VAC power and standby battery power can be switched automatically.
GSM module (optional): GSM module allows users to receive alarm information by SMS.

## FM-200/FK-5-1-12 Fire Extinguishing System

Asenware Clean Agent Fire extinguishing systems utilizes FM-200 FK-5-1-12 as extinguishing gas. Asenware gas extinguishing systems are available as Engineered and Pre-Engineered Systems (Cabinet System).



### Hanging Type Gas Extinguishing System



Different from piped network type gas extinguishing the hanging type will be simple to install,no pipeline installation.



**Electric Hanging Type**



**Fixed Temperature Hanging Type**

### Applications

Electronic computer room, a data processing center, telecommunications facilities, process control, expensive medical equipment, industrial equipment, library, museum and art gallery, clean room, anechoic chamber, emergency power facilities, flammable liquid storage area, etc.



**Fire Detection Tube Suppression System**

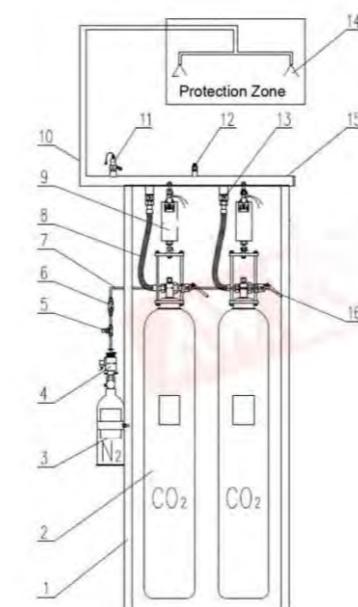


#### Features

Agent: FM 200/FK-5-1-12/CO <sub>2</sub>
Working Pressure: 14bar
Test Pressure: 25bar
Working Temperature: -30°C~+60°C
System Activated Temperature: 140°C±10°C

### CO<sub>2</sub> Gas Extinguishing System

CO<sub>2</sub> Gas Extinguishing System is a kind of intelligent automatic extinguishing system. In accordance with requirements for use in different places for application, the unit independent system and combined distribution system can be constituted and the way of total flooding extinguishing can be used in order to realize the extinguishing protection of single protection area and multi-protection area. CO<sub>2</sub> gas automatic extinguishing system has advanced technology and high extinguishing efficiency and can be maintained easily. This system has 3 start-up modes including automatic operation, manual operation and mechanical emergency operation.



1. Bracket of storage bottle group of extinguishing agent
2. Storage bottle of extinguishing agent
3. Start-up bottle
4. Electromagnetic actuator of start-up bottle
5. Low-discharge and high-seal valve
6. Check valve of Start-up gas
7. Start-up pipe line
8. High-pressure hose
9. Weighing and leak detection device
10. Transmission pipeline of extinguishing agent
11. Pressure signal device
12. Safety valve
13. Check valve of extinguishing agent
14. Nozzle
15. Header pipe
16. Mechanical emergency start-up handle

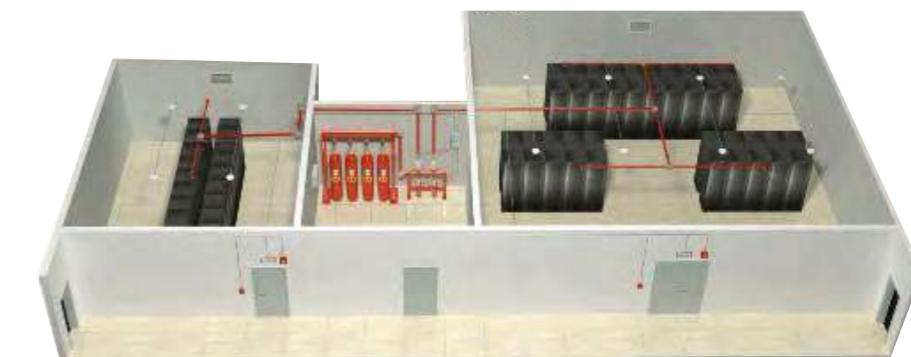
This system is mainly suitable for the following fire situation

Gas fire in the event that gas source can be cut off before extinguishment;

Liquid fire or fire due to fusible solids such as paraffin and asphalt;

Fire on solid surface and deep-seated fire of partial solids such as cotton, fabric, and paper;

Electrical fire.



## Packaged Fire Pump system

Asenware packaged Fire Pump system, can provide the complete skid for Fire Pump service. Systems include the pump, driver, controller and jockey pump all mounted on a common base. Controller is pre-wired to the drivers.



Features
Full Assembly (Electric, Diesel and Jockey Pumps)
Common Base
Suitable Suction and Discharge Piping
Includes Check Valve, Isolation Valves and Pressure Gauges
Diesel Fuel Tank Mounting (optional) and Battery Connection
Suitable Pressure Tank
Pre -Assembled Controller
Automatically run and stop jockey pump, electrical motor pump and diesel pump.
Automatically charge the battery.
Special water flow path design for high efficiency.
Full test with pressure guage and flow meter at same time.



## Fire sprinkler system

The fire sprinkler system is an active fire protection measure, consisting of a water supply system, providing adequate pressure and flow rate to a water distribution piping system, onto which fire sprinklers are connected. Although historically only used in factories and large commercial buildings, systems for home and small building are now available at a cost-effective price. Fire sprinkler systems are extensively used worldwide with over 40 million sprinkler heads fitted each year. In buildings completely protected by fire sprinkler systems, over 99% of fires were controlled by fire sprinklers alone.



Wet Alarm Valve



Deluge Alarm Valve



Pre-action Alarm Valve

Dimensions(mm)						
Norminal Diameter(mm)	OD	A	B	C d	C D	F
80	88.9	15.88	7.93	84.94	88.9	320.3
100	114.3	15.88	9.53	110.08	114.3	382
150	168.3	15.88	9.53	163.96	168.3	406.4
200	219.1	19.05	9.53	214.4	219.1	446

Norminal Diameter (mm)	Max.woking Pressure (mpa)	Valve Height (mm)	Flange Od (mm)	Screw No& Bore Diameter (mm)	Install Dimension (mm)
50	1.2	165	125	8*18	920*265*550
80	1.2	250	200	8*18	950*275*575
100	1.2	250	215	8*18	975*285*580
125	1.2	270	245	8*18	995*325*580
150	1.2	270	280	8*18	1020*340*580
200	1.2	300	335	12*12	1020*395*595
250	1.2	450	400	12*6	1185*460*598

Norminal Diameter (mm)	Norminal Working Pressure (MPa)	Body Height (mm)	Flange Outer Diameter (mm)	Water Pressure Reduced (MPA)	Drive Time(s)
100	1.2~1.6	250	220	<0.07	15
150	1.2~1.6	270	285	<0.07	15
200	1.2~1.6	370	340	<0.07	15



2 Way Fire Hydrant

Outlet Size	2 x2.5"
Inlet Size	4"
Material	Cast Iron
Working Pressure	15 Bar



3 Way Fire Hydrant

Outlet Size	1 x4" & 2 x2.5"
Inlet Size	6"
Material	Cast Iron
Working Pressure	15 Bar



Flange Type Landing Valve

Outlet Size	2.5"
Inlet Size	2.5"
Material	Brass
Working Pressure	1.6 Mpa

Gate Valve  
DN50-DN200

Nominal Pressure(Mpa)	Boundary Dimension				Unit : mm	
	DN	L	HA	HC		
1.6MPa	50	178	322	374		
	65	190	332	398		
	80	203	350	429		
	100	229	420	524		
	125	254	581	721		
	150	267	581	736		
	200	292	736	942		



Thread Type Landing Valve



2 Way Breeching Inlet



4 Way Breeching Inlet

Outlet Size	2.5"
Inlet Size	2.5"
Material	Brass
Working Pressure	1.6 Mpa

Outlet Size	2x 2.5"
Inlet Size	4"
Material	Cast Iron
Working Pressure	10 Bar

Outlet Size	4x 2.5"
Inlet Size	6"
Material	Cast Iron
Working Pressure	10 Bar

Butterfly Valve  
DN50-DN200

Nominal Pressure(Mpa)	DN	H1	H2	H3	D1	D2	L1
1.6MPa	50	70	130	68	120	95	43
	65	76	143	68	136	109	46
	80	86	155	68	160	124	46
	100	104	170	68	182	153	52
	125	118	190	68	215	179	56
	150	132	210	68	238	206	56
	200	167	243	85	295	264	60

Pressure Reducing Valve  
DN50-DN200

Nominal Pressure(MPa)	Nominal Diameter DN (mm)	L	PN16		H	H1
			D	D1		
1.6MPa	50	240	160	125	265	210
	65	240	180	145	310	215
	80	292	195	160	350	245
	100	325	215	180	460	305
	125	340	245	210	520	365
	150	403	280	240	570	415
	200	435	335	295	695	510



**Y-Strainer**  
DN65-DN200

Nominal pressure(MPa)	DN	L	H
		flange	flange
1.6MPa	65	225	135
	80	280	175
	100	300	195
	125	350	220
	150	390	240
	200	500	335



**Sight Flow Glass type**  
DN15-25



**Sight Flow Thread type**  
DN32-DN80



**Sight Flow Flange type**  
DN200



**Main Relief Valve**  
DN 50-DN 200

Nominal pressure(MPa)	Test pressure (MPa)		Applicable medium	Operating Humidity
	Shell	Seal		
1.6MPa	2.4	1.76	Clean water and sewage without impurities	≤80°C



**Flexible Coupling**  
DN 50-DN 200



**Check Valve**  
DN 50-DN 200



**Flow Meter**  
DN 50-DN 200



**Flow Indicator**  
DN 25-DN 200

Nominal pressure(MPa)	Installation	Nominal diameter	Working pressure(Mpa)	Sensitivity L/min
1.6MPa	flange	DN25 DN50 DN65 DN80 DN100 DN125 DN150 DN200	1.2	15<Q<37.5
	Saddle type			
	welded			
	Silk mouth type			



**Air Vent**  
DN 50-DN 100



**Seamless Galvanized Steel Pipe**  
ASTM A53



**Pipe Fittings**  
Variable

**ASTM A53 seamless steel pipe**

Seamless steel pipe (SMLS) is formed by drawing a solid billet over a piercing rod to create the hollow shell, without welding or seam. It is suitable for bending and cutting. The advantage of seamless steel is the ability of withstanding higher pressure. ASTM A53 specification also covers seamless steel pipe. The pipe is intended for pressure and mechanical applications and is also acceptable for ordinary uses in oil, gas, steam, water and air lines. It is suitable for welding, bending and flanging.



- Standard: ASTM A53, Type S, Grade B
- Dimension: Sch40 /Sch80 as ASME B36.10M
- Application: Fire main pipe, fire pump pipe, fire standpipe, fire sprinkler branch pipe ,
- Black and red seamless pipe is available

**Outside Diameter and Wall Thickness(American Standard ANSI B36.10 B36.19M)**

Nominal Pipe Size		Outside Diameter	Nominal Wall Thickness																
NPS	DN	D	SCH10s	SCH10	SCH20	SCH30	SCH40s	STD	SCH40	SCH60	SCH80s	XS	SCH80	SCH100	SCH120	SCH104	SCH160	XXS	
1/8	6	10.3	1.24	—	—	—	1.73	1.73	1.73	—	2.41	2.41	2.41	—	—	—	—	—	
1/4	8	13.7	1.65	—	—	—	2.24	2.24	2.24	—	3.02	3.02	3.02	—	—	—	—	—	
3/8	10	17.1	1.65	—	—	—	2.31	2.31	2.31	—	3.20	3.20	3.20	—	—	—	—	—	
1/2	15	21.3	2.11	—	—	—	2.77	2.77	2.77	—	3.73	3.73	3.73	—	—	4.78	7.47	—	
3/4	20	26.7	2.11	—	—	—	2.87	2.87	2.87	—	3.91	3.91	3.91	—	—	5.56	7.82	—	
1	25	33.4	2.77	—	—	—	3.38	3.38	3.38	—	4.55	4.55	4.55	—	—	6.35	9.09	—	
1 1/4	32	42.2	2.77	—	—	—	3.56	3.56	3.56	—	4.85	4.85	4.85	—	—	6.35	9.70	—	
1 1/2	40	48.3	2.77	—	—	—	3.68	3.68	3.68	—	5.08	5.08	5.08	—	—	7.14	10.15	—	
2	50	60.3	2.77	—	—	—	3.91	3.91	3.91	—	5.54	5.54	5.54	—	—	8.74	11.07	—	
2 1/2	65	73.0	3.05	—	—	—	5.16	5.16	5.16	—	7.01	7.01	7.01	—	—	9.53	14.02	—	
3	80	88.9	3.05	—	—	—	5.49	5.49	5.49	—	7.62	7.62	7.62	—	—	11.13	15.24	—	
3 1/2	90	101.6	3.05	—	—	—	5.74	5.74	5.74	—	8.08	8.08	8.08	—	—	—	—	—	
4	100	114.3	3.05	—	—	—	6.02	6.02	6.02	—	8.56	8.56	8.56	—	11.13	13.49	17.12	—	
5	125	141.3	3.40	—	—	—	6.55	6.55	6.55	—	9.53	9.53	9.53	—	12.7	15.88	19.05	—	
6	150	168.3	3.40	—	—	—	7.11	7.11	7.11	—	10.97	10.97	10.97	—	14.27	18.26	21.95	—	
8	200	219.1	3.76	—	6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.23	
10	250	273.1	4.19	—	6.35	7.8	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.4	28.58	25.4	
12	300	323.9	4.57	—	6.35	8.38	9.53	9.53	10.31	14.27	12.70	12.70	17.48	21.44	25.4	28.58	33.32	25.4	
14	350	355.6	4.78	6.35	7.92	9.53	—	9.53	11.13	15.09	—	12.70	19.05	23.83	27.79	31.75	35.71	—	
16	400	406.4	4.78	6.35	7.92	9.53	—	9.53	12.7	16.66	—	12.70	21.44	26.19	30.96	36.53	40.49	—	
18	450	457.2	4.78	6.35	7.92	11.13	—	9.53	14.27	19.05	—	12.70	23.83	29.36	34.96	39.67	45.24	—	
20	500	508.0	5.54	6.35	9.53	12.7	—	9.53	15.09	20.62	—	12.70	26.19	32.54	38.1	44.45	50.01	—	
22	550	558.8	5.54	6.35	9.53	12.7	—	9.53	—	22.23	—	12.70	28.58	34.93	41.28	47.63	53.98	—	
24	600	609.6	6.35	6.35	9.53	14.27	—	9.53	17.48	24.61	—	12.70	30.96	38.89	46.02	52.37	59.54	—	
26	650	660.4	—	7.92	12.7	—	9.53	—	—	—	12.70	—	—	—	—	—	—	—	
28	700	711.2	—	7.92	12.7	15.88	—	9.53	—	—	—	12.70	—	—	—	—	—	—	

**A53 Chemical components**

Standard	Trade Mark	Chemical components									
		C	Si	Mn	P	S	Cu	Ni	Mo	Cr	V
ASTM A53	A	≤0.25	/	≤0.95	≤0.05	≤0.045	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08
	B	≤0.30	/	≤1.2	≤0.05	≤0.045	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08

**A53 Mechanical property**

Tensile strength (Mpa)	Yield Strength(Mpa)	Elongation(%)
≥330	≥205	≥29.5
≥415	≥240	≥29.5

**Pipe Fittings**

Galvanized Steel Pipes



Galvanized Steel Elbow 90° (Welded Type)



Galvanized Steel Elbow 90° (Threaded Type)



Galvanized Steel Tee (Welded Type)



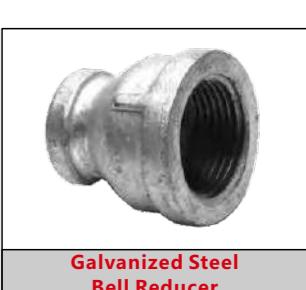
Galvanized Steel Tee (Threaded Type)



Galvanized Steel Cross Tee (Threaded Type)



Galvanized Steel Bell Reducer (Welded Type)



Galvanized Steel Bell Reducer (Welded Type)



Galvanized Steel End Cap



Galvanized Steel Blind Flange



Galvanized Steel Slip On Flange



Flexible Mechanical Grooved Coupling

**ASENWARE Quality Policy:**

Our products must comply with international standards, and must be stable and reliable in long term working.

## Foam Fire Extinguishing System

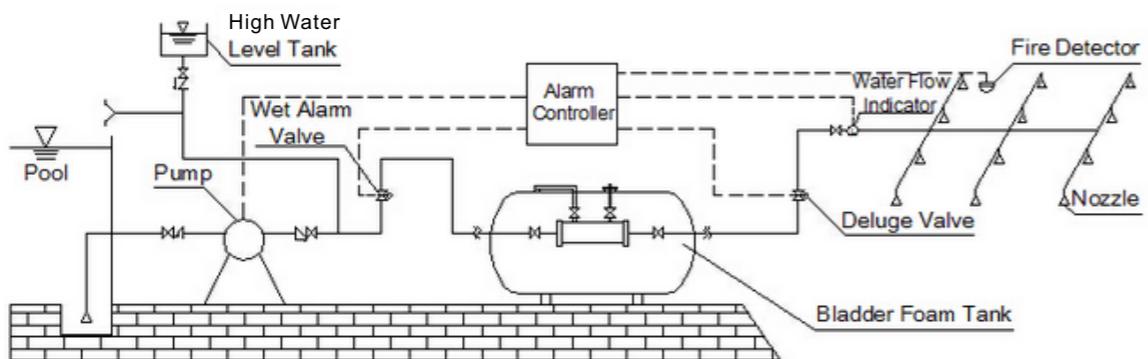
Foam Bladder Tank is to provide foam solution for fire foam system. It is mainly consist of pressure tank, bladder, proportioner, control valves, pressure gauge and pipelines. High-pressure water is needed to swap out foam concentrate(stored in bladder in the tank) from the tank as a certain proportion. Foam concentrate then mix with pressurized water and form foam solution. The concentrate is discharged from the tank by incoming water applying pressure to the bladder. This applied energy is transferred to the concentrate, supplying pressurized concentrate to the proportioner. (Proportioners are separate items described on a separate data sheet.) For bladder is separated from the water that it can be utilized next time if not finished. Besides, there is feed inlet to refill or recharge foam concentrate.



Horizontal type



Vertical type



Features
Big flow pressure range and small pressure loss.
Widely used both in mid-multiples and low multiples foam extinguishing system.
Two types: horizontal and vertical.



Foam Monitor



Foam Chamber

Working Pressure Range	0.6~1.2MPa
Pressure Drop	0.2MPa
Test Pressure	Intensity 1.5MPa Seal 1.32MPa
Tank Capacity	500~10000L
Size of Proportioner	DN80~DN250
Flow Rate	4~360L/S
Mixing Ratio	3% or 6%



Fire hose reel



Specification
Material: Rubber
Length: 30m
Size: DN19 (3/4") & DN25 (1")
With valve
With nozzle
Swing automatic and manual for options



Fire hose rack



Specification
Material: Canvas
Length: 30m
Size: DN40 (1.5") & DN65 (2 (1/2"))
Coupling: aluminum x 2pcs
Nozzle: brass or plastic for options
Right angle valve: brass
With hose rack



Hose Rack



Hose Adapter



Right Angle Valve



Hose Nozzle



Hose Coupling



Fire Hose

## Embedded &amp; Wall-mounted type Cabinet

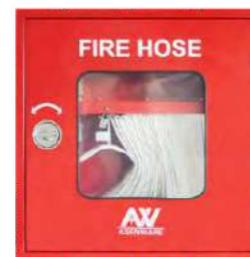
Customizable size and design cabinet for options



Fire Hose Reel Cabinet



Fire Hose Reel Cabinet



Fire Hose Cabinet



Extinguisher Cabinet

CE

## Fire Blanket

CE



Fire Blanket Box Package



Fire Blanket Plastic Package

## Fire Blanket Box Package

Model Number	Fire Blankets Size	Net weight (pcs)	Gross weight (pcs)	Quantity(pcs of box)/Size
AW-FB101	1m*1m	0.45kg	0.7kg	20pcs/ 52 x34 x21cm
AW-FB103	1.2m*1.2m	0.64kg	0.9kg	20pcs/ 52 x34 x21cm
AW-FB105	1.5m*1.5m	1.10kg	1.3kg	15pcs/ 52 x34 x21cm
AW-FB107	1.2m*1.8m	0.93kg	1.35kg	15pcs/ 52 x34 x21cm
AW-FB109	1.8m*1.8m	1.39kg	1.8kg	10pcs/ 42 x34 x21cm

## Fire Blanket Plastic Package

Model Number	Fire Blankets Size	Net weight (pcs)	Gross weight (pcs)	Quantity(pcs of box)/Size
AW-FB102	1m*1m	0.45kg	0.5kg	30pcs/ 42 x34 x21cm
AW-FB104	1.2m*1.2m	0.64kg	0.7kg	20pcs/ 42 x34 x21cm
AW-FB106	1.5m*1.5m	0.98kg	1.1kg	15pcs/ 42 x34 x21cm
AW-FB108	1.2m*1.8m	0.95kg	1.05kg	15pcs/ 42 x34 x21cm
AW-FB110	1.8m*1.8m	1.39kg	1.45kg	10pcs/ 42 x34 x21cm

CE

CE



## Glass bulb type fire sprinkler

Type	Pendent	Upright	Sidewall
Material	Brass or zinc alloy		
Normal diameter (mm)	DN15 or DN20		
Connecting thread (inch)	R1/2" or R3/4"		
Response element	Glass bulb		
Operating Temperature	57°C/68 °C /79 °C /93 °C /141 °C /181 °C		
Response type	Standard response or Quick response		
K factor	80(5.6 @ US) or 115 (8.0 @ US)		
Working pressure	0.1 MPa - 1.2 Mpa(1 bar - 12 bar)		
Seal material	Teflon (PTFE) plated metal O-ring, or rubber O-ring		



