

★ Our Service Policy:

1. NFPA certified engineers provide design for all fire systems.
2. Installation and training at the customer's location.
3. Special product design with an appropriate solution.
4. Continuous technical support.
5. 2 years warranty.

★ Contact us

ASENWARE GROUP

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AW ASENWARE

Only for Fire Safety



2024 CATALOG



Conventional Fire Alarm System
AW-CFP2166

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YouTube



Website



TikTok



TÜV Rheinland
Addressable Fire Alarm System
AW-FP100



LPCB
Gas Extinguishing System
AW-GEC2169



Voice Evacuation System



DEKRA
Emergency Luminaire



ECM
Gas Suppression System



ECM
Water/Foam Suppression System








COMPANY PROFILE



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, centralized monitoring emergency luminaire system, fire telephone and voice evacuation system, fire pump, fire hose, and gas suppression system.

ASENWARE with 20 years of history. Now we have over 250 employees worldwide, over 80 engineers, and over 10,000 square meters of factory. We focus on international standards and certificates for fire safety products, until now, we have obtained more than 100 certificates like UL, LPCB, TUV, Intertek CE, Bomba, ATEX certificates, and others for different products.

-  1. Addressable Fire Alarm Control System
-  2. Addressable Fire Alarm Control System
-  2. Wireless Addressable Fire Alarm Control System
-  3. Conventional Fire Alarm Control System
-  3. Wireless Fire Alarm System
- 4. Aspirating Smoke Detection System
- 4. Waterproof Fire Alarm Product
-  4. Explosion Proof Fire Alarm Product
-  5. Linear Heat Cable
- 5. Fire Proof Cable
- 6. Emergency Voice Evacuation System
- 6. Fire Telephone System
- 7. Centralized Monitoring Emergency Luminaire System 
- 7. Detector Tester Series
- 8. Gas Extinguishing System 
- 9. Fire Sprinkler System

INTERNATIONAL CERTIFICATES AND PATENTS

2005
ASENWARE
• Group Establishment

2016
Intertek
• Conventional Fire Alarm Panel 1-32 zone
AW-CFP2166-1/2/4/6/8/12/16/20/24/28/32

2017
LPCB
• Conventional Smoke Detector
AW-CSD381

2018
TUV
• Emergency lights
AW-EL101
• Suspended LED Acrylic Exit Sign
AW-EL301

2019
LPCB
• Conventional Fire Alarm Panel 4-32 zone
AW-CFP2166-4/8/12/16/20/24/28/32
Intertek
• Conventional Fire Alarm Panel 2-32 zone
AW-CFP2166-2/4/8/12/16/20/24/28/32
• Standalone Detector-AW-SSD606
• Standalone Detector-AW-STD606D
• Standalone Detector-AW-SST606D

2020
TUV
• Centralized Monitoring Emergency light
AW-CEL101
• Centralized Monitoring Exit Sign
AW-CEL301

2021
UL
• Fire Alarm Cable - AW-FPLR2X1/1.5/2.5

2022
LPCB
• Conventional Manual Call Point
AW-D135C
• Addressable Manual Call Point
AW-D135A

2023
ECM
• Explosion Proof Fire Alarm Products

2024
TUV
• Addressable Wired and Wireless Fire Alarm Panel
• Addressable Smoke Detector
• Addressable Heat Detector
• Standalone Smoke Detector
• Standalone Heat Detector
• Wifi Detector
• Wireless Detector
• LPG Gas Detector
• Addressable And Conventional Strobe Sounder Base
• Addressable Module
• Addressable Smoke Detector
• Addressable Smoke And Heat Detector

2024
TUV
• Addressable Wired And Wireless Strobe Sounder
• Addressable Wired And Wireless Fire Alarm Panel

2024
UL
• Linear Heat Cable

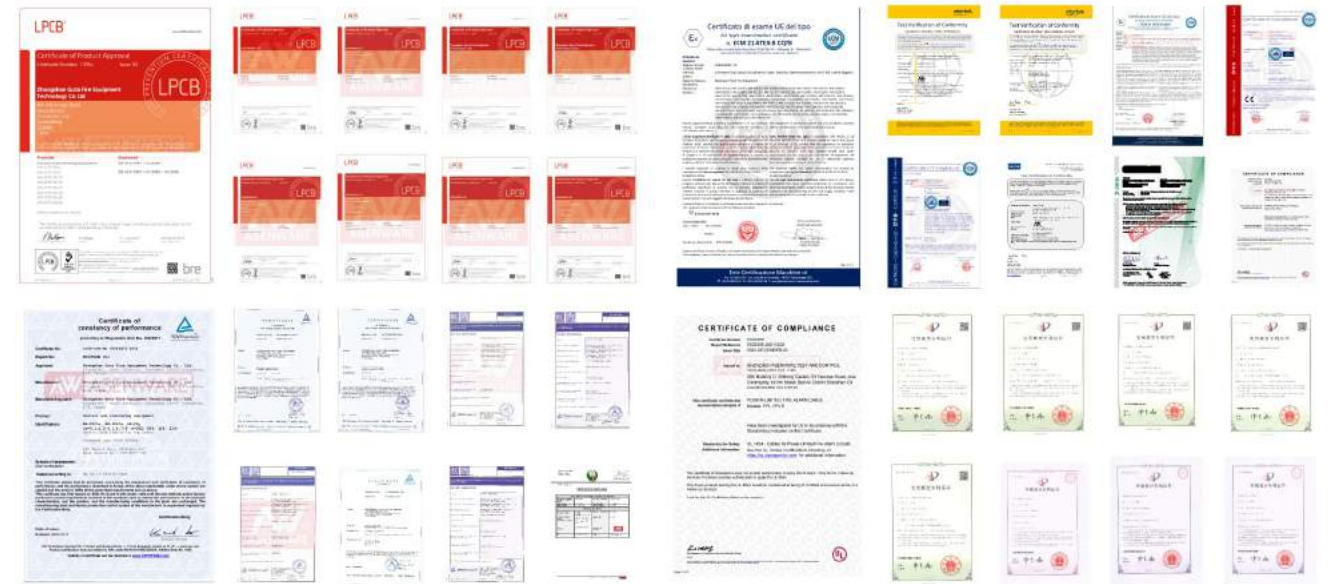
2024
LPCB
• AW-FP300 AW-FP312
• AW-D309 AW-D310 AW-D319
• AW-D321 AW-D303 AW-D307

2024
TUV
• LPG Gas Detector - AW-D132
• CO Detector - AW-D125

2024
ECM
• Fire Hose Reel And Fire Hose Rack
• Fire Sprinkler
• Fire Pump
• Fire Blanket
• Gas Suppression System
• Solenoid Valve
• Fire Bell And Strobe Sounder

2024
DEKRA DEKRA
• Emergency Lights-AW-EL101
• Twin-Spot Emergency Light-AW-EL208

TO BE CONTINUED



ASENWARE

20 Years, Only for Fire Safety



AW ASENWARE

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ADDRESSABLE FIRE ALARM CONTROL SYSTEM

ASENWARE



Addressable Smoke Detector
AW-D301

Operating Voltage	Loop 24V(18V~28V)
Standby Current	≤0.3mA
Alarm Current	≤1.5mA (without remote indicator) ≤3.5mA (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	≤0.3mA
Alarm Current	≤1.5mA (without remote indicator) ≤3.5mA (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	≤0.5mA (Monitoring Status) or ≤1.5mA (Alarm Status)
Protection Area	60m ²
Installation Height	≤8m



Addressable Gas Detector
AW-D315

Operating Voltage	12V-28V
Operating Current	35mA @ DC24V
Alarm Current	40mA @ DC24V
Operating Humidity	≤95%, without condensation
Alarm Levels	Natural Gas, 10%LEL(±30%)



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

Power Input	DC24V(20-28V)
Monitoring Status	≤4mA
Alarm Status	≤130mA
Power Consumption	≤3.2W@DC24V
EN54-23 Coverage	C-3-8W-2-4-6
Sound Level	AW-D306 ≥75DB@1m AW-D307 ≥73DB@1m AW-D316 ≥75DB@1m



Addressable Manual Call Point
AW-D305

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



Loop Isolator
AW-D314

Line Voltage	16-28 VDC
Standby Current	≤3mA
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

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



Addressable Repeater
AW-RP2188

Power Supply	DC 24V ±20 %
Overall Power Consumption	≤3W
Working Temperature	-10°C~+50°C
Relative Humidity	≤95% (40°C, non-condensing)



Addressable Zone Module
AW-D310

Operating Voltage	Signal Loop 24V(20V~28V) Power 24VDC(20VDC~28VDC)
Standby Current	Loop <0.5mA; Power <15mA
Action Current	Loop <2mA; Power <35mA
Operating Temperature	-10°C~+55°C
Relative Humidity	≤95%, non-condensing



Addressable Strobe Sounder Base
AW-D321

Loop input	DC24V(20-28V)
Power consumption	≤0.2W@DC24V
Operating Temperature	-10°C~+55°C
Relative Humidity	≤95%, non-condensing



4G GSM Module
AW-GSM200



Extension Box
AW-FP300EB

Extend 1 to 6 Loop cards



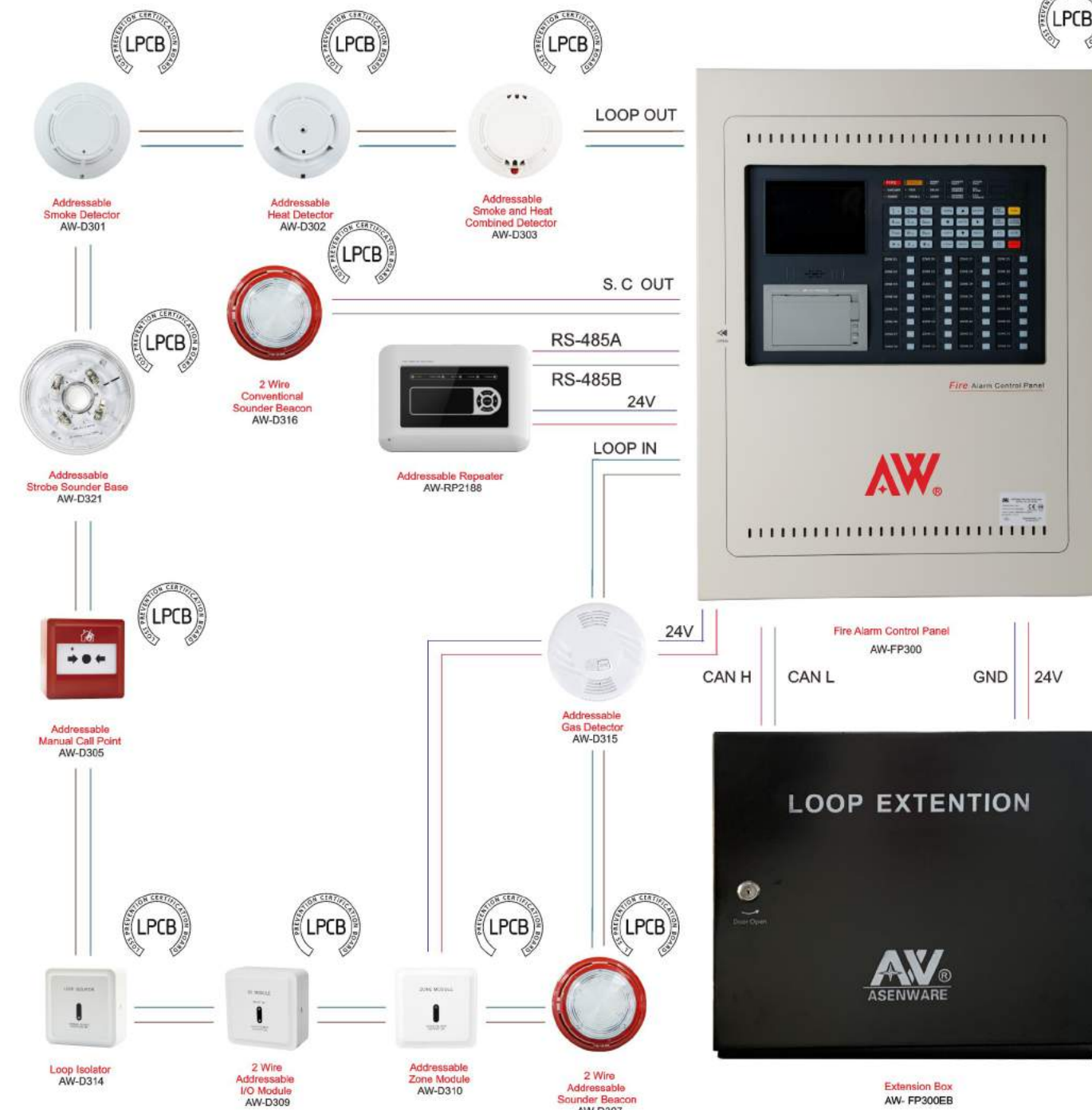
Programmer
AW-CODER2188

A device for giving specific ID to all the addressable accessories which need to be configured with AW-FP300/AW-FP312 control panel.



Addressable sounder beacon waterproof base
AW-BS03

Made of ABS material
Complies with IP65 rating



AW-FP300 Addressable Fire Alarm Control Panel

1-8 Loop Fire 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 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 FACPs and RS-485 for connection with up to 30 fire indicating panels per FACP

AW-FP312 Addressable Fire Alarm Control Panel



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-FP312 addressable fire alarm control panel offers the following features
One loop with 120 addressable points
CAN network 20pcs panel

WIRELESS ADDRESSABLE FIRE ALARM CONTROL SYSTEM



Wireless Addressable Fire Alarm Control Panel
AW-FP128

Addressable Strobe Sounder with Wireless Transmitter
AW-D106A

- Max 20
- Wireless devices
- In one group



Wireless Addressable Smoke Detector
AW-D603L



Wireless Addressable Heat Detector
AW-D604L



Wireless Standalone LPG Gas Detector
AW-D132W



Wireless Addressable Smoke and Heat Detector
AW-D605L



Wireless Addressable Manual Call Point
AW-D135W



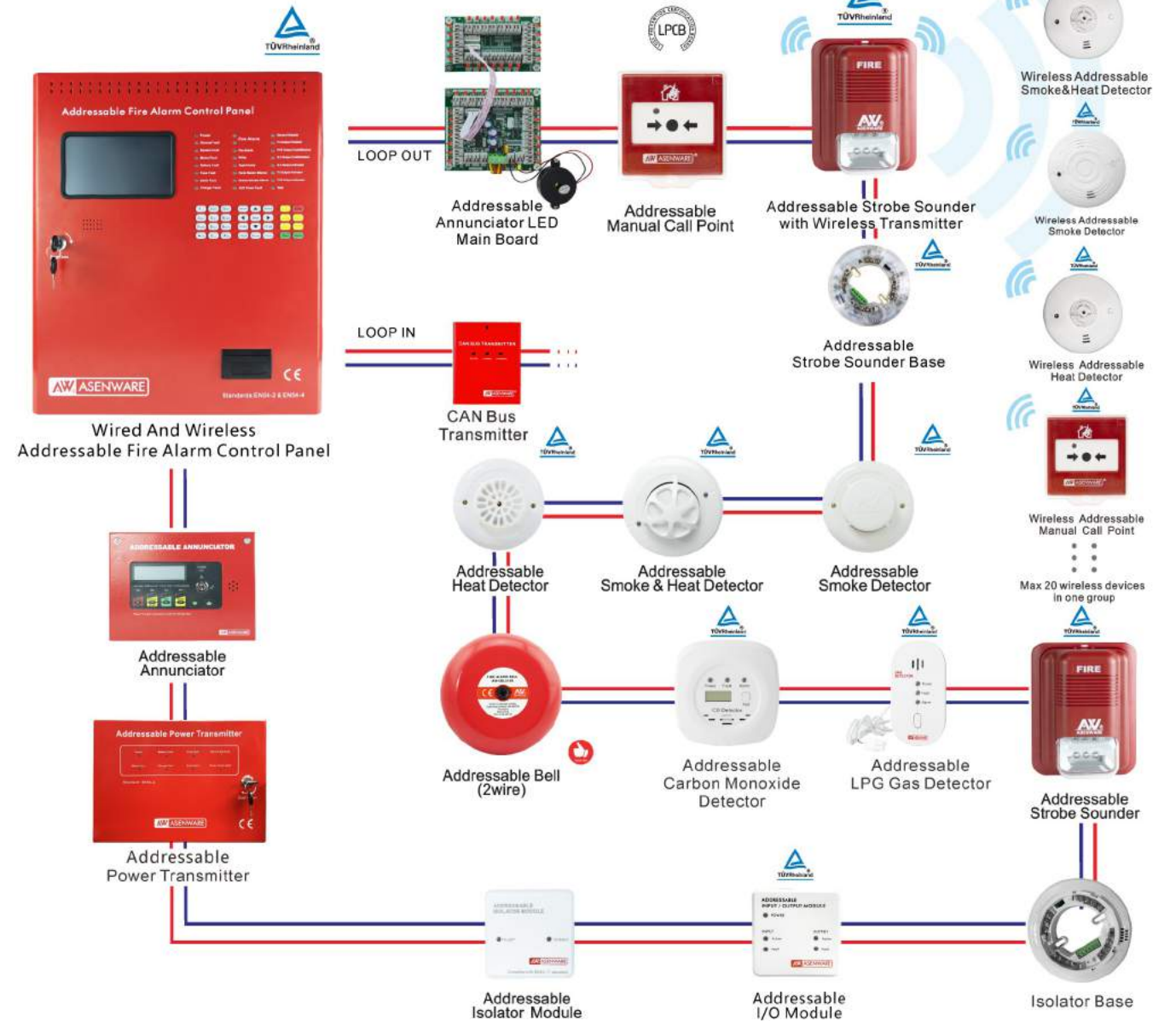
Wireless CO Detector
AW-D125L



Only for Fire Safety

- Addressable Fire Alarm Control System
- Wireless Addressable Fire Alarm Control System

ADDRESSABLE FIRE ALARM CONTROL SYSTEM



AW-FP128 Wired and Wireless Addressable Fire Alarm Control Panel



AW-FP128 wired and wireless addressable fire alarm control panel has 3.2-inch LCD screen and button, easy to operate. It can connect with 128 wired addressable fire alarm devices and 80 wireless groups. And each wireless group can connect with up to 20 wireless devices, such as wireless addressable detector, wireless addressable manual call point, ect.

The AW-FP128 wired and wireless addressable fire alarm control panel offers the following features
3.2-inch LCD display screen
All wired addressable devices are two-wire, easy to wire
A single loop can connect with 128 wired addressable devices
Up to 999 history records can be saved (save when power off)
There are four access levels
It has a rechargeable backup battery
It has LED indicator, which can show the panel status. When panel alarms, the "Fire Alarm" LED light will be on
Automatic search device
Support panel to panel network, maximum 8 panels. Any one panel can silence, reset and evacuate another panels
It has USB/Type-C setting software, which support setting fire alarm devices status and checking fire history records on computer or laptop

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 panel can be connected to 8 loops. Each loop can be connected to 250 devices, such as smoke detectors, heat 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, heat detector, input and output module, etc.

The AW-FP200 fire alarm control panel offers the following features
7 inch color LCD display, touch screen, easy to operate
All wired addressable devices are two-wire, easy to wire
One loop can connect with 250 wired addressable devices and 10 wireless groups
One wireless group can connect with 20 wireless devices
Max 8 loop cards can be installed
Up to 999 history records can be saved (save when power off)
Multiple access levels can be set
It has a rechargeable backup battery
It has LED indicator, which can show the panel status. When panel alarms, the "Fire Alarm" LED light will be on
Automatic search device
Support panel to panel network, maximum 8 panels. Any one panel can silence, reset and evacuate another panels
It has USB/Type-C setting software, which support setting fire alarm devices status and checking fire history records on computer or laptop
It can bind 10 mobile phone numbers to receive panel alarm information. (The GSM module must be added)



Addressable Smoke Detector
AW-D101

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



Addressable Heat Detector
AW-D102

Operating Voltage	18V~28V DC
Standby Current	≤2.5mA
Fix Temperature Alarm	57°C(135°F)
Heat Response Categories	A1R



Addressable Smoke and Heat Detector
AW-D138

Operating Voltage	18V~28V DC
Standby Current	≤2.5mA
Smoke Sensitivity	0.18-0.3dB/m
Fix Temperature Alarm	57°C(135°F)
Heat Response Categories	A2R



Wireless Addressable Smoke Detector
AW-D603L

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Smoke Alarm Sensitivity	0.18-0.3dBm
Fix Temperature Alarm	0 - 40°C (32~104°F)
RF Frequency	433MHZ(418-448MHZ)



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
RF Frequency	433MHZ(418-448MHZ)



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
RF Frequency	433MHZ(418-448MHZ)



Addressable Alarm Bell
AW-D109

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



Addressable Strobe Sounder
AW-D106

Operating Voltage	18V~28V DC
Standby Current	≤3mA
Alarm Current	≤60mA
Alarm SPL	≥ 100 dB
Flash Period	1.0 Sec.



Addressable Manual Call Point
AW-D135A

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

Addressable Isolator Module

AW-D114

AW-D114 is an intelligent addressable isolator module, which can be configured with Asenware AW-FP100/AW-FP200/AW-FP128 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

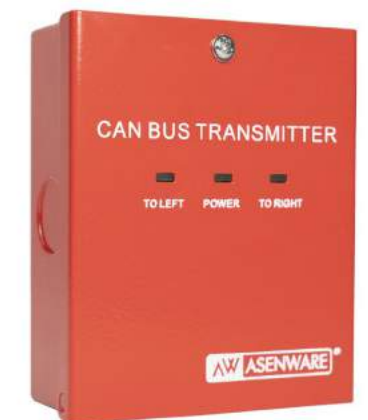
The AW-D119 I/O module is used with AW-FP100/AW-FP200/AW-FP128 series addressable fire alarm control panel. It is mainly used to realize an output control for fire linkage equipment (such as fire alarm bell and strobe horn) and receive the fire signal for the detector which connecting to this module 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 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).

Technical Specification	
Main Voltage	Loop 24VDC
Power Consumption	≤2W (Alarm)
Alarm Outputs	DC12V pulse voltage and relay(COM ,NO)
Relay Capacity	0.5A @30VDC (Max)
Alarm Horn	≥ 85dB @3m
Value of Detection Threshold	LPG: Propane 1890ppm (9%LEL)
	Butane 1900ppm (10%LEL)
	LNG: Methane 3500ppm (7%LEL)
Warm Up Time	Approximately 90 Seconds
Environmental	Temperature range: -10 to 50°C (14~122°F)
	Humidity: ≤95% RH, non-condensing



Addressable Carbon Monoxide Detector

AW-D125A

The addressable carbon monoxide detector AW-D125A is an intelligent detector which can be configured with Asenware AW-FP200 /AW-FP128 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).

Technical Specification	
Operating current(@24VDC)	Standby status≤5mA, Alarm status≤20mA
CO detection range	0-999 ppm
Alarm Level	60~90 minutes @ 50ppm
	10~40 minutes @ 100ppm
	Within 3 minutes @ 300ppm
Sensor life	10 Years
Operating Temperature	Class A temperature range: -10 to 40°C (14~104°F)
	Humidity: 5 to 95% RH, non-condensing
Standard	EN 50291-1-2018



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

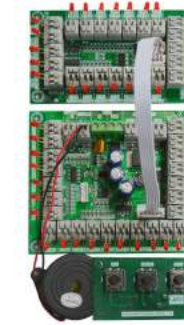


4G GSM Module
AW-FP100GSM-4G

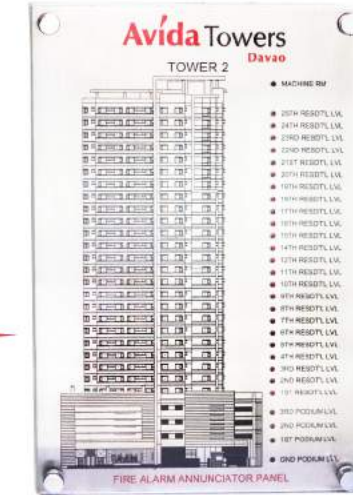
Addressable Annunciator Board

AW-D117&AW-D118

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



Annunciator



LED Repeater



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 Power Transmitter AW-D121

Addressable Power Transmitter, an intelligent power supply, which is designed to provide auxiliary power when there is no enough power from panel to devices.

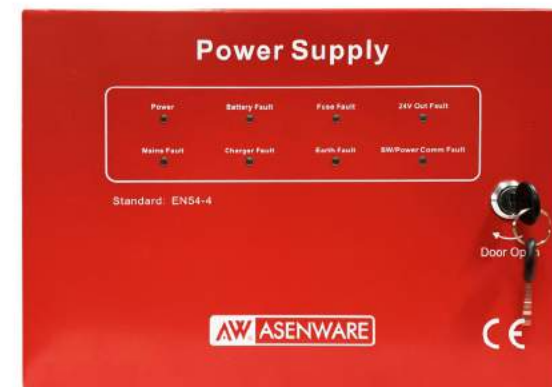


Features

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

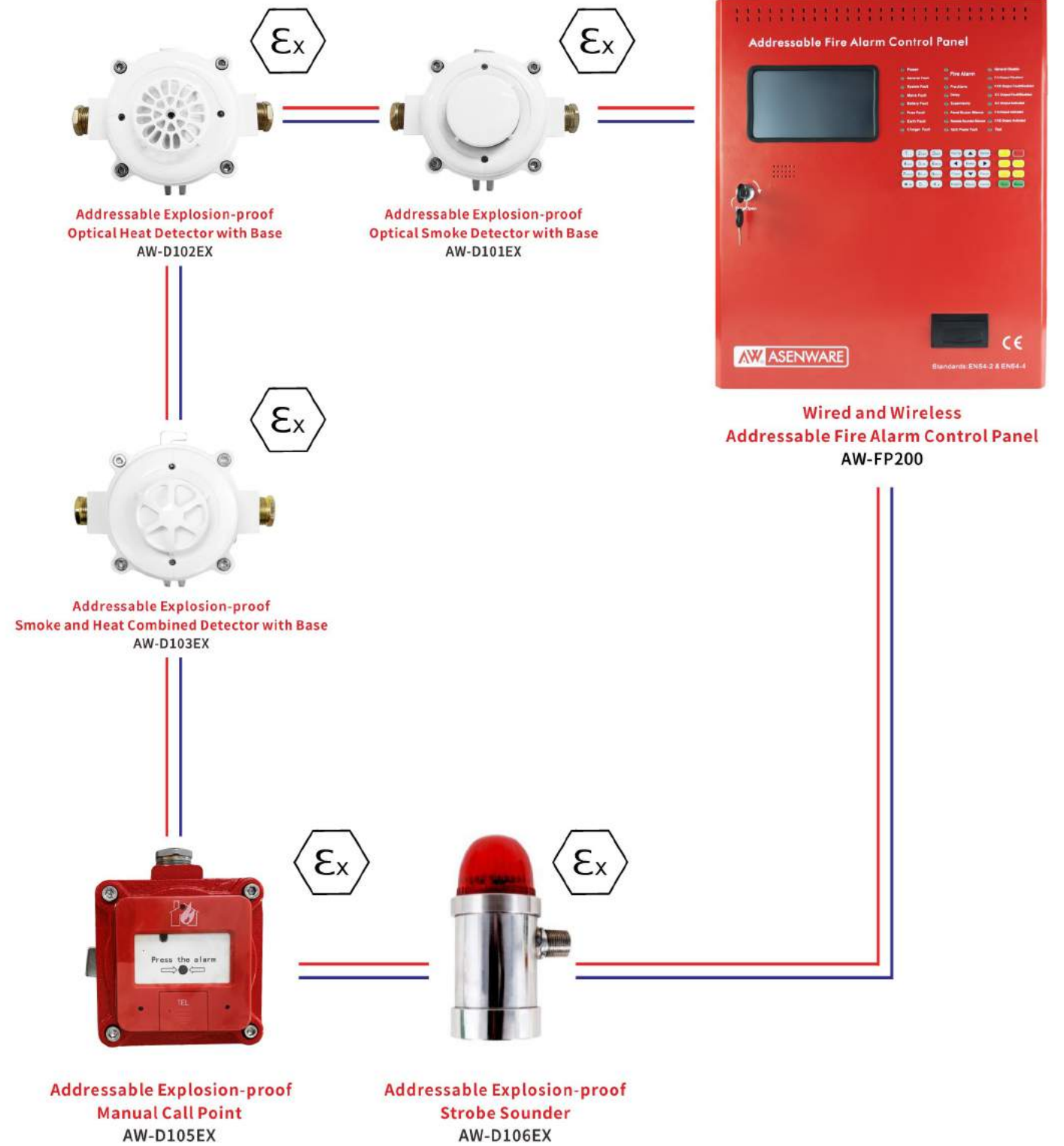
Power Supply AW-D121C

The AW-D121C Power Supply is used with AW-CFP2166 series conventional fire alarm control panel and FP300 addressable 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 mounted
Working status indicators
24VDC output short circuit protection function
Selectable input modes to reset 24VDC output
Compatible with the latest EN54-4 standard





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

Main Voltage:	Loop 24VDC
Operating current:	Monitor: ≤1.2mA Alarm: ≤2.5mA
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



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

Main Voltage:	Loop 24VDC
Operating current:	Monitor: ≤1.2mA Alarm: ≤2.5mA
Fixed temperature:	alarm 57°C(135°F) A1R
Ex-Atex Protection Level:	Gb/Exib Dt DA21 IP65 T85
Heat Response Categories:	A1R



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

Main Voltage:	Loop 24VDC
Operating current:	Monitor: ≤1.2mA Alarm: ≤2.5mA
Smoke Alarm Sensitivity:	0.18dB/m~0.3 dB/m
Ex-Atex Protection Level:	Gb/Exib Dt DA21 IP65 T85
Heat Response Categories:	A2R



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

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



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

Main Voltage:	Loop 24VDC
Alarm Current:	≤10mA
Ex-Atex Protection Level:	Exd II Ct6
Temperature range:	-20 to 50°C



Features

- Support LAN mode
- Multi level management
- User-friendly, easy to operate and manage
- Can casually drag the fire alarm devices icon in the software layout
- Fire or fault messages can be monitored in the graphic monitoring software



Home Fire Alarm Control Panel AW-D140

Features	
Full wireless fire alarm control panel	
Maximum wireless detectors:99pcs	
Wireless transmitter distance>1km(at wide area)	
Alarm sound:>100dB@1m	
3.7V,2000mAh battery inside	
Standby time>24H,Alarm time>0.5H	
GSM message available	
Technical Specification	
Rated input voltage	100V-240VAC, 50Hz/60Hz
Standby battery	2000mAh 3.7V/ lithium battery
Working environment	Relative humidity (<95%) at -20 ~40 °C, no condensation)
Number of connected devices	20PCS

Auto Dialer AW-FT201

Features	
Once get emergency input ,send SMS to all numbers and automatically call by GSM or wired dial	
20x pre-saved phone numbers	
4x Emergency input	
2x Output programmable	
1x Rs485	
1x USB for programming	
Local voice monitoring	



AW ASENWARE
Only for Fire Safety

LPCB Conventional Fire Alarm Control System
Wireless Fire Alarm System

CONVENTIONAL FIRE ALARM CONTROL SYSTEM



AW-CFP2166 Conventional Fire Alarm Control Panel
1-32 Zone Fire Alarm Panel



Conventional Fire Alarm Control Panel
1 Zone
AW-CFP2166-1



Conventional Fire Alarm Control Panel
2/4 Zone
AW-CFP2166-2
AW-CFP2166-4



Conventional Fire Alarm Control Panel
6/8 Zone
AW-CFP2166-6
AW-CFP2166-8



Conventional Fire Alarm Control Panel
12/16/32 Zone
AW-CFP2166-12 AW-CFP2166-16
AW-CFP2166-20 AW-CFP2166-24
AW-CFP2166-28 AW-CFP2166-32

Features

- AW-CFP2166 series conventional fire alarm panel is designed based on EN54 part 2&4 standard
- It is modularized design, the panel can expand from 1 zone to 32 zones easily
- It has 2 levels control mode by a lock
- It has an optional GSM module for fire alarm by SMS



**Conventional Photo-Electric
Smoke Detector**
AW-CSD381

Main Voltage	Zone 24V / 12V
Monitoring Status	≤120uA
Alarm Status	≤15mA
Alarm Sensitivity	0.1 to 0.15 dB/m



**Conventional Photo-Electric
Smoke Detector**
AW-CSD311

Main Voltage	Zone 24V / 12V
Monitoring Status	≤120uA
Alarm Status	≤15mA
Alarm Sensitivity	0.18 ~ 0.3 dB/m



**Rate of Rise Temp Heat Detector
ROR/A2R**
AW-CTD382

Main Voltage	Zone 12V/24V DC
Monitoring Status	≤120uA
Alarm Status	≤15mA
Fix Temperature Alarm	57°C(135°F)
Rate of Rise Alarm	7.1 °C/5s



6 Inch Fire Bell
AW-CBL2166-6

Working Voltage	20V-28V DC
Working Current	≤60mA @ 24V DC
Sound Level	≥98dB @1m
Polarized with 2 diodes	



8 Inch Fire Bell
AW-CBL2166-8

Working Voltage	20V-28V DC
Working Current	≤60mA @ 24V DC
Sound Level	≥100dB@1m
Polarized with 2 diodes	



Horn Strobe
AW-CSS2166-4

Operating Voltage	12/24VDC
Operating Current	≤100 mA
Sound Level	≥90~115dB (adjustable)@1m
Flash Period	≤2.0 S
IP Rating	IP33



**Rate of Rise Temp Heat Detector
ROR/A2R**
AW-CTD321

Main Voltage	9-28V DC
Monitoring Status	≤120uA
Alarm Status	≤15mA
Fix Temperature Alarm	57°C(135°F)
Rate of Rise Alarm	7.1 °C/5s



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

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



**4 Wire
Conventional UV Flame Detector**
AW-D146R

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



Horn Strobe
AW-CSS2166-5

Operating Voltage	12V/24V DC
Operating Current	≤350 mA
Sound Level	≥105dB@1m
Flash Period	≤2.0 S
Alarm Sound Types	1 Kinds



Conventional Strobe Sounder
AW-CSS2166-3

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



Entrance LED Indicator
AW-EL102

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



Conventional Manual Call Point
AW-D135C

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



Horn Strobe
AW-CSS2166-2

Operating Voltage	12-26VDC
Operating Current	≤60 mA
Sound Level	≥100dB@1m
Flash Period	≤1.0 S



Conventional Sounder Beacon
AW-D316

Operating Voltage	24VDC(20V ~ 28V)
Operating Current	≤100mA
EN54-21 Coverage	C-3-8/W-2.4-6
Flash Color and Frequency	White, 0.5Hz
Light Output Synchronization	Meets EN54-23
Sound Level	≥75dB@1m



Dust Smoke Detector
AW-CSD313

Main Voltage	Zone 24V or 12V
Operating current	Monitoring status≤120uA, Alarm status≤15mA
Protection Class	IP 30
Smoke Alarm Sensitivity	0.18 ~ 0.3 dB/m
Environmental	Class A temperature range: -10 to 50°C (14~122°F) Humidity: 5 to 95% RH, non-condensing



Repeater
AW-CRP2166

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



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

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



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

Operating voltage	9VDC
Monitoring Status	≤8uA
Alarm Status	≤20mA
Alarm Sensitivity	0.18~0.26 dB/m
Alarm SPL	≥85db@3m



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

Operating voltage	3VDC
Monitoring Status	≤8uA
Alarm Status	≤20mA
Alarm Sensitivity	0.18~0.30 dB/m
Alarm SPL	≥85db@3m



**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
Alarm SPL	≥85db@3m



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

Operating Voltage	9-28V DC or 3V battery
Standby Current	≤15mA
Alarm Current	≤120mA
Detection Range	0~999 PPM



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

Operating Voltage	24V DC&220V
Temperature	-10°C to +50°C
Sound Level	85dB @3m
Ambient Humidity	≤95% RH
Gas Detection	LPG/LNG



**Standalone LPG Gas Detector
AW-D132**

Operating Voltage	100-240VAC 50-60HZ
Alarm Output	12VDC pulse voltage and relay
Alarm SPL	≥85dB @3m
Value of Detection Threshold	LPG: Propane 1890ppm (9%LEL) Butane 1900ppm (10%LEL) LNG: Methane 3500ppm (7%LEL)



**4G GSM Module
AW-GSM200**

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

Water-proof Strobe Sounder AW-D106C



The model AW-D106C is a water-proof Strobe Sounder which is with an intermittently acoustic signal with intensity and with a flashing LED light. It also can be connected to an alarm relay with normally open contact. It can be powered at 85~264VAC or at 10~28 VDC. The sound can be silenced for 10 minutes and leave only the active optics. If a button for silencing is connected. When pressing button for 1 second, with the sounder in alarm, sounder will be silent for 10 minutes, at the end of this time, the sound is automatically reactivated.

Technical Specification	
Operating voltage	85~264VAC or 10~28VDC (typical 24V)
Operating current(@24VAC)	Alarm status≤85mA @24VDC
Wiring	Two wire for power (AC or DC)
	Two wire for buzzer silence(optional)
Alarm SPL	≥105 dB @1m (85~264V or 24VDC)
Flash period	1.0 sec
Environmental	Temperature range: -10~50°C (14~122°F)
	Humidity: 5 to 95% RH, non-condensing
IP Code	IP65

Infrared Linear Reflex 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 ² (14x100=1400m ²) 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	

WIRELESS FIRE ALARM SYSTEM



Wireless Conventional Fire Alarm Control Panel
AW-CFP2166-4W

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. Wireless detectors are low power cost and can be used for up to 5 years
4. Each wireless detector contains a sounder, alarm >75db
5. The control panel can remotely reset and mute the wireless detector



Wireless Standalone LPG Gas Detector
AW-D132W

Operating Voltage	DC5V(Type-C input)
Operating Temperature	-10°C to +40°C
Ambient Humidity	≤95% RH
Gas Detection	LPG/LNG
Alarm SPL	85 dB @3m
RF Frequency	433MHZ(418-448MHZ)



Wireless CO Detector
AW-D125L

Operating Voltage	3V battery
Standby Current	≤15mA
Alarm Current	≤120mA
Detection Range	0~999 PPM
RF Frequency	433MHZ(418-448MHZ)



Wireless Conventional Fire Alarm Control Panel
AW-CFP2166-4W



Addressable Strobe Sounder with Wireless Transmitter
AW-D106A

- Max 20
- Wireless devices
- In one zone



Home Fire Alarm Control Panel
AW-D140

- Max 20
- Wireless devices

The below wireless devices are suitable for
Wireless Conventional Fire Alarm Control Panel
AW-CFP2166-4W

The below wireless devices are suitable for
Home Fire Alarm Control Panel
AW-D140



Wireless Addressable Smoke Detector
AW-D603L

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Smoke Alarm Sensitivity	0.18-0.3dBm
Fix Temperature Alarm	0 - 40°C (32-104°F)
RF Frequency	433MHZ(418-448MHZ)



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
RF Frequency	433MHZ(418-448MHZ)



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
RF Frequency	433MHZ(418-448MHZ)



Wireless Strobe Sounder
AW-D106A

Operating Voltage	Loop 24V
Operating Frequency	428MHz to 438MHz
Protection class	IP30
Alarm SPL	≥100dB @1M
Flash Period	1.0 Sec.
RF Frequency	433MHZ(418-448MHZ)



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
RF Frequency	433MHZ(418-448MHZ)



Wireless Addressable Programmer
AW-PR101L

Working Voltage	4.5V~7V DC
Rated Current	≤150mA
Battery	AAA*4



Wireless Addressable Smoke Detector
AW-D603L



Wireless Addressable Heat Detector
AW-D604L



Wireless Addressable Smoke and Heat Detector
AW-D605L



Wireless Addressable Manual Call Point
AW-D135W



Wireless Standalone LPG Gas Detector
AW-D132W



Wireless CO Detector
AW-D125L



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

Website:
www.asenware.com www.asenwarefire.com
Email: info@asenware.com

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

CH ₄	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
C5H10				

Types of Toxic Gas

CO	O2	O3	H2S	H2
CL2.	NH3.	SO ₂	NO	NO ₂
CH2O	HCL	HCN	EX	NH3H



Only for Fire Safety

Aspirating Smoke Detection System

Waterproof Fire Alarm Product



Explosion Proof Fire Alarm Product

ASENWARE

ASPIRATING SMOKE DETECTION SYSTEM



Aspirating Smoke Detection System
AW-AS200



Aspirating Smoke Detection System
AW-AS100

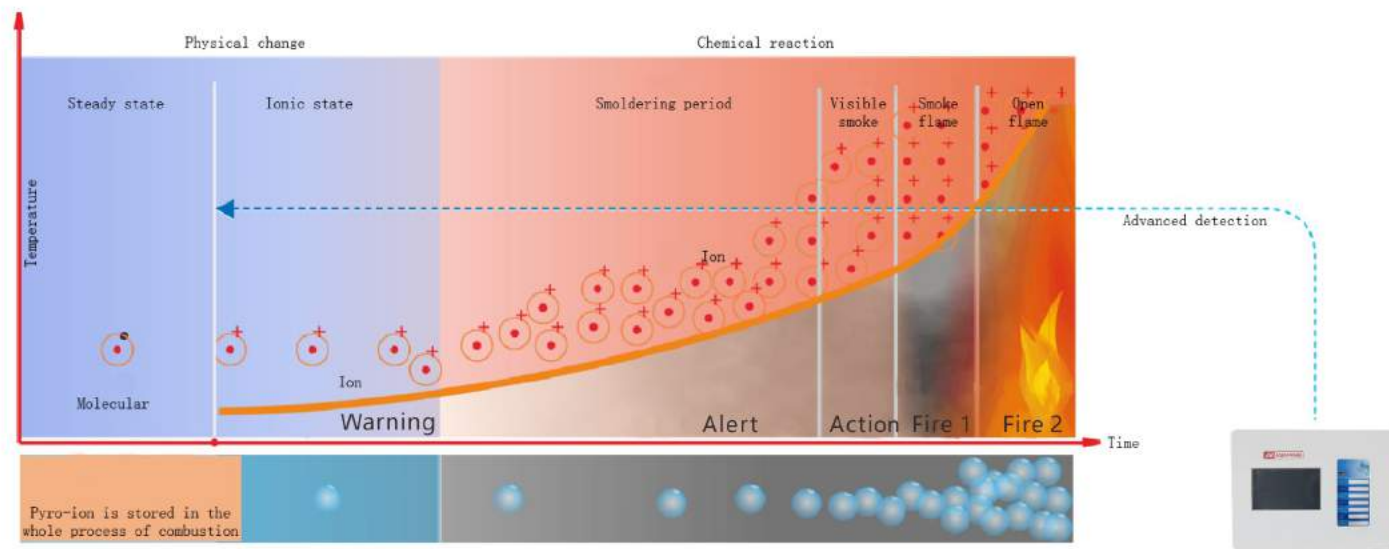
Advantages

- 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

Combustion analysis:

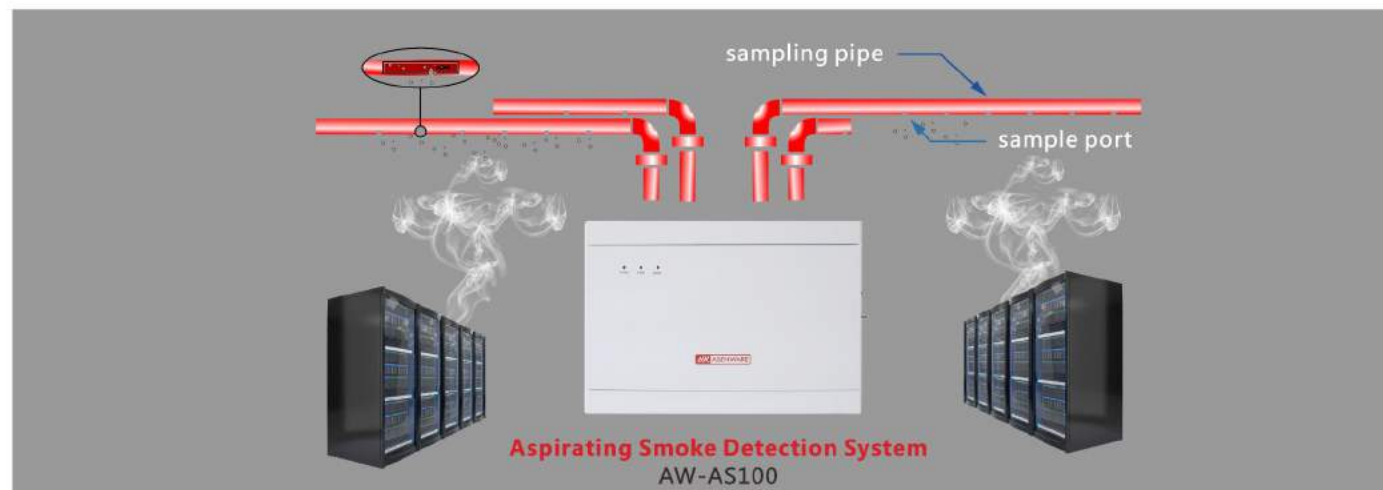
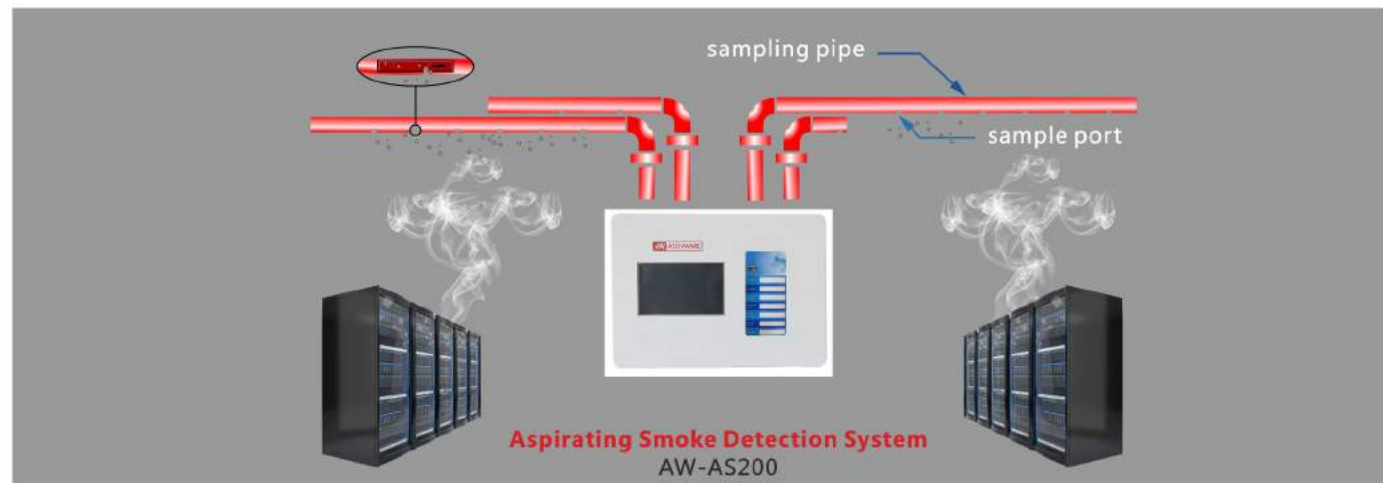


WATERPROOF FIRE ALARM PRODUCT

Weatherproof Fire Alarm Series



Features
Weather proof
Dust proof
Good sealing
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

Weather Proof



Water-proof Strobe Sounder
AW-D106C

Operating Voltage:	85~265VAC or 10~28VDC
Operating Current	≤250mA @ 24VDC
Sound Level	≥105dB @ 1m
Flash Period	≤1.0 S
IP Rating	Ip65



Smoke Detector Weatherproof Base
AW-WB02

Applicable Products
Suitable for most models of smoke detector

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



Weatherproof Box
AW-WB001

Applicable Products



Conventional Manual Call Point
AW-D135C

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

EXPLOSION PROOF FIRE ALARM PRODUCT



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	
Reasonable structure design	
Sensitive adjustment, accurate positioning	
Good performance, easy to install	



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)
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 fire alarm bell
AW-CBL2166EX

Main Voltage	24 VDC
Operating current	Alarms≤25 mA
Ex-Atex Protection Level	Exd II CT6 Gb
Size (L*W*H)	260*152*80mm
Sound(SPL)	95dB~100dB



Explosion-proof safety barrier
AW-D137EX

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



Explosion-proof strobe sounder
AW-CSS2168EX

Main Voltage	DC 24V
Operating current	Alarms≤250 mA
Ex-Atex Protection Level	Exd II CT6 Gb
Size (L*W*H)	260*152*80mm
Sound(SPL)	75dB~95dB



Explosion-proof weatherproof
strobe sounder
AW-CSS2167EX

Model No.	AW-CSS2167EX	AW-D135EX	AW-CSS2166EX
Operating Voltage	DC 24V	DC 24V	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 manual call point
AW-D135EX



Explosion-proof fire strobe
AW-CSS2166EX



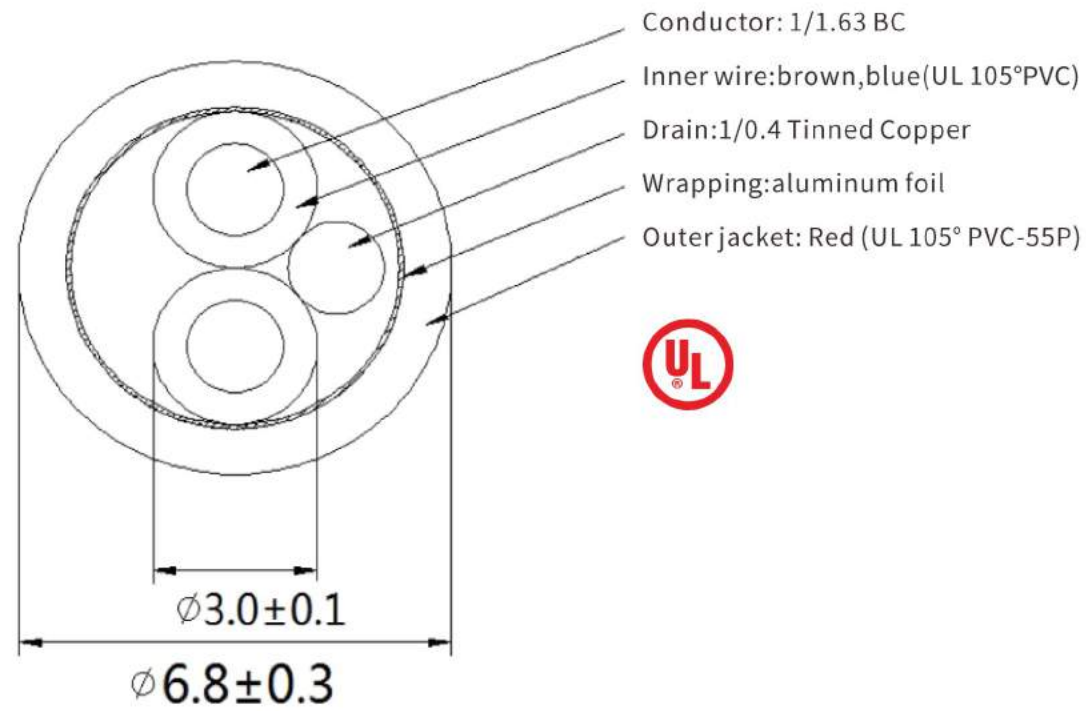
Explosion-proof siren
AW-SP04EX

Main Voltage	24 VDC
Alarm Current	≤600 mA
Atmospheric Pressure	80kPa ~ 110kPa
Outlet Thread	G1/2
Sound(SPL)	90dB~110dB





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 IIC T6 Gb/Ex tD A21 T80°C	Exd IIC 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 IIC T6 Gb/tD A21 IP66 T80°C	Exd IIC 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	

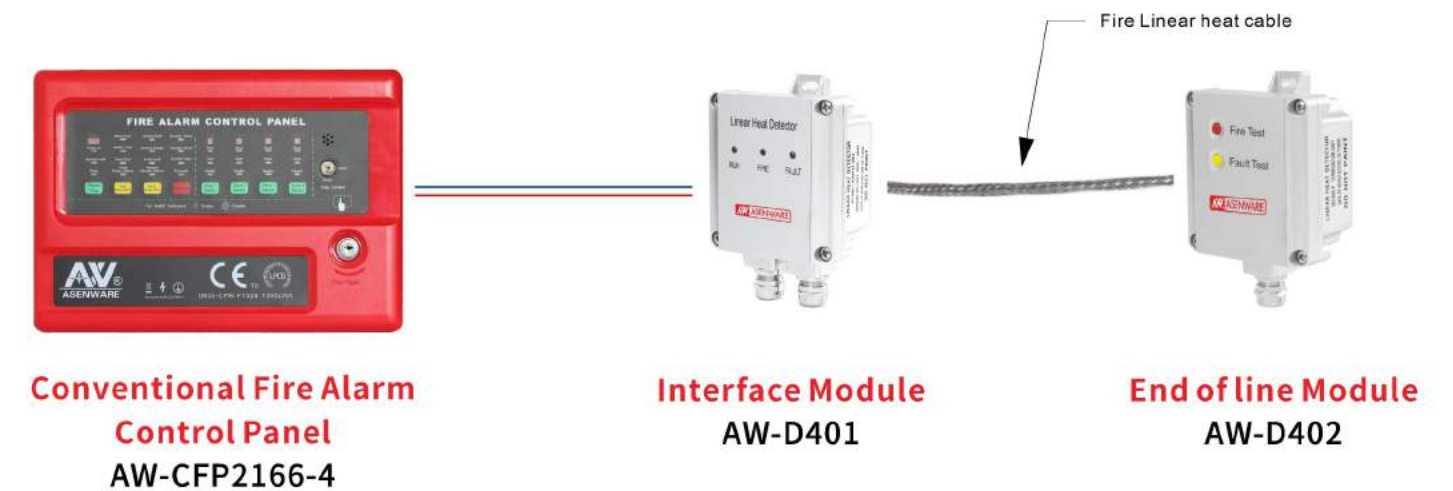


Model	AW-FPLR2X2.5 (14 AWG)
Conductor	1/1.63 solid bare copper
Max conductor resistant Ω/KM (20°C)	8.45
Insulation thickness	0.51 mm
Min insulation thickness	0.46 mm
Inner wire	brown, blue (flame retardant PVC)
Wire numbers	2 core
Drain wire	0.4mm tinned copper
Wrapping	Al-foil
Jacket	red (flame retardant 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

AW ASENWARE
 Only for Fire Safety

-  Linear Heat Cable
-  Fire Proof Cable

LINEAR HEAT CABLE



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



Fire Linear Heat Cable

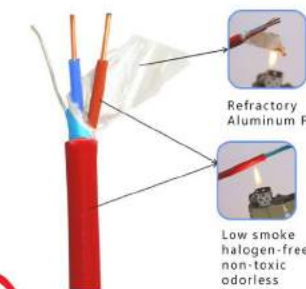
- AW-D4068(68°C)
- AW-D4088(88°C)
- AW-D4105(105°C)
- AW-D4138(138°C)
- AW-D4180(68/88/105/138/180°C)

FIRE PROOF CABLE

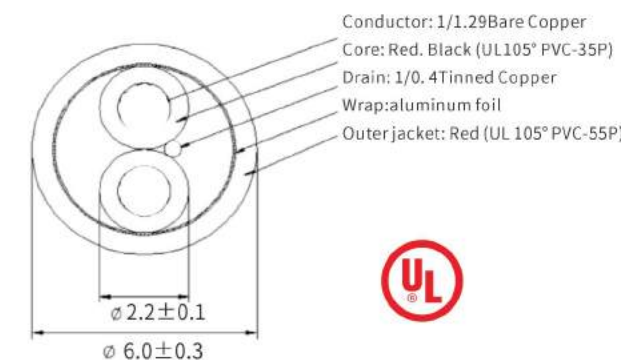
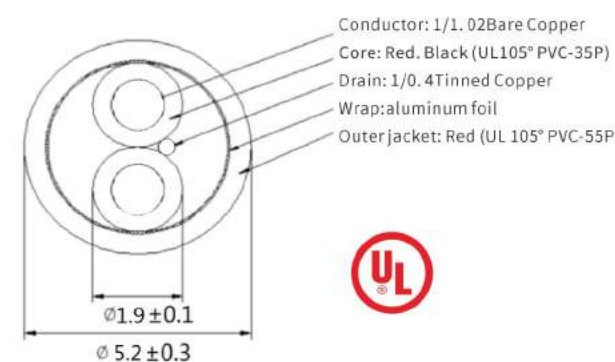


Fire Proof Cable

Features
Oxygen-free copper
High temperature resistance
Halogen and smoke free
Quality assurance



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)
	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)
	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)
Parameter					
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	-55°C for CR/OD Type	-55°C for CR/OD Type	-55°C for CR/OD Type	-55°C for CR/OD Type
	-40°C for Conventional and EP Type	-40°C for Conventional and EP Type	-40°C for Conventional and EP Type	-40°C for Conventional and EP 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)



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

FIRE TELEPHONE SYSTEM

Addressable Fire Telephone Panel AW-FT599

Features
With the two-bus technology, the power supply and communication are compatible with 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, as well as 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 functions 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 a 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.



Conventional Fire Telephone Handset
AW-D502

Fire Telephone Wall-mounted
AW-FHS101



Addressable Fire Telephone Jack
AW-D501

Telephone Jack
AW-FTJ101



Only for Fire Safety

EMERGENCY VOICE EVACUATION SYSTEM

Emergency Voice Evacuation System

Fire Telephone System

ASENWARE



Emergency Voice Evacuation Controller AW-EVC500

Features
AW-EVC500 Emergency Voice Evacuation Controller is the all-in-one wall-mounted public address controller with fire/emergency voice evacuation and background music function
It has the built-in battery charger for 12V12AH*2 lead acid batteries
It has a 500Watt amplifier inside
It has 10-zone speaker outputs
1x USB for MP3 background music
1x SD card for pre-record emergency voices
1x Microphone
2x Remote pagings
1x audio input
1x audio output
1x CAN bus (only for ASENWARE addressable fire alarm panel connection)
10x emergency inputs (for all brands' products connection)
Voice volume and quality adjustable
Emergency zone and speaker zone programmable
High-quality voice, frequency response is 80HZ-10KHZ ±3DB



Multi-Zone Speaker Selector AW-EV602

Rated input voltage:	~110VAC~260VAC, 50/60HZ
Standby battery:	Two 12V/2.3Ah lead-acid batteries in series
Work Temperature:	datasheet:-5 to 40°C
Work Humidity:	<95% RH

Cabinet Type Voice Evacuation System



Emergency Voice Evacuation Controller AW-EVC100



Features	
Preamplifier+ MP3 player+ Emergency Voice + Battery charger	
Communication with fire alarm panels	
2xMic+2xAUX+ 2xPaging (200 addresses)+ MP3 + Bluetooth+1xSD Card	
1x Built-in Speaker+ 2x Audio Output	
20x Emergency Input + 1x CAN+ 2x RS485 +1x LAN	

Zone Speaker Selector AW-EV603



Features	
Each Zone Speaker Selector contains 10 zones and can be cascaded up to 99 Zone Speaker Selectors and then up to 99*10=990 zones	
The zone output can be connected to 3-wire speakers	
The isolation and activation of each partition can be controlled by pressing a button	
Use RS485 to connect to the cabinet-type evacuation controller, and use it in conjunction with the panel to control the opening and closing of the zone	



Amplifier (500W/1000W/1500W/2000W)

Sequence Controller AW-EV608



Features	
Eight independent high-power supply outputs	
Universal sockets can be used for a variety of three-pole power sockets and two-pole European round head sockets	
Maximum single output is 16A, total input current capacity is 25A	
The switching status of eight channels can be operated and displayed by panel control	
Open the equipment one by one from the front to the back when powering on. Shut down the equipment one by one from the back to the front when powering off	

Remote Paging Station AW-EV601



3.4-inch display screen	
Network cable connection	
Priority level management	
Zone control	
Work Voltage	24VDC
Work Temperature	-10°C~50°C.
Work Humidity	≤95% RH
Size	240*180*53mm
Distance	≥600m(with CAT-5E OFC cable)



**Small
Ceiling Speaker**
AW-SP01



**Big
Ceiling Speaker**
AW-SP02



**Wall
Mounted Speaker**
AW-SP03

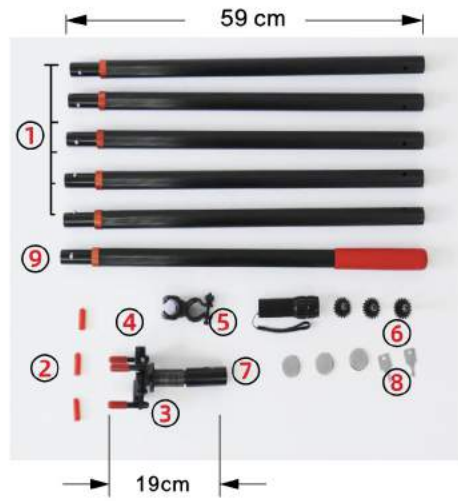


**15W
Water Proof Speaker**
AW-SP04



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

Model No.	AW-SP01/02	AW-SP03	AW-SP04	AW-SP05
Power	3/6W	6/12W	15-30W	30W
Voltage	70-110V	70-120V	70/110V	70-120V
Sensitivity	91dB/90dB	91dB	118dB	112dB
Frequency response	90-16KHz	90-16KHz	420-6000Hz	270-8KHz
Size	190mm/220mm	260*185*120mm	202*120*234mm	205* 285* 280mm



Smoke & Heat Detector Disassembly tool AW-D208

Accessory list

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



Smoke & Heat Detector Disassembly Tool Datasheet AW-D205

Technical Specification	
Model	AW-D205
Length	Normally 3.5m, longest to 10m [can be extended up to 9.9m (0.9m×11)]
Material	Titanium alloy
Applicable device	50-115mm diameter smoke detector / heat detector / flame detector



Smoke & Heat Detector 2 in 1 Tester AW-D206



4 in 1 Smoke/Heat/Flame/LPG Gas Detector Tester AW-D212

Technical Specification	
Testing type	smoke/heat/flame/LPG gas
Detecting end material	anodized aluminium + stainless steel
Connecting rod material	stainless steel
Standard length	2.5m (Optional connecting rod)
Smoke (full charge) test	450-800 times
Gas source	butane gas
Battery voltage	7.4V DC
Spectrum	infrared≥850mm, ultraviolet≤280mm and infrared-ultraviolet broadband



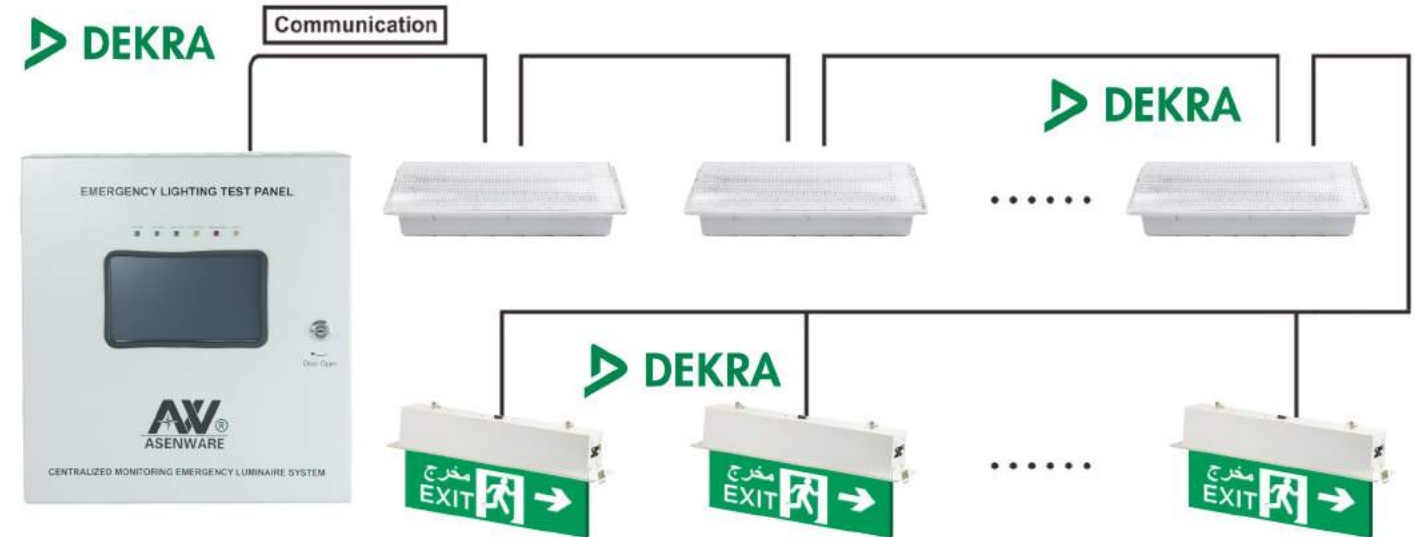
Only for Fire Safety

DEKRA Centralized Monitoring Emergency Luminaire System

Detector Tester Series



CENTRALIZED MONITORING EMERGENCY LUMINAIRE SYSTEM






The Emergency lighting panel can connect directly with the Exit signs and Emergency luminaire for the function of the Addressable Centralized Monitoring. The Panel has two sources, one is AC mains and another one is 24Volts battery (or two 12V batteries).

Centralized Monitoring 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

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

Conventional Emergency Light			
Photo	Product Name	Model No.	Parameters
	LED Emergency Light TUV Approved	AW-EL101	<ul style="list-style-type: none"> √ 110V-127VAC 50/60Hz √ 220V-240VAC 50/60Hz √ Non-maintainable √ LED 16pcs/bar, 1/2/3/5 bar √ Nickel-cadmium or Lead-acid
	LED Lamp Emergency Light	AW-EL103	<ul style="list-style-type: none"> √ 220VAC 50/60Hz √ ≥220lm √ <24 hours
	Twin Lamp LED Emergency Light	AW-EL207	<ul style="list-style-type: none"> √ 220VAC 50Hz/60Hz ±10% √ -5° C~ 40° C Rh≤92% surface without condensation √ SMD 2835 12PCS .
	Twin-Spot Emergency Light	AW-EL203	<ul style="list-style-type: none"> √ 220V-240VAC 50/60Hz √ Nickel-cadmium 3.6V √ <24 hours
	Twin Lamp Emergency Light	AW-EL208	<ul style="list-style-type: none"> √ 220VAC 50/60Hz √ 2150lm √ <24 hours √ 2*10w
	Exit Sign TUV Approved	AW-EL301	<ul style="list-style-type: none"> √ 220VAC 50Hz + 10%- 15% √ 1.2V 800mAh √ 0.5 mm²
	Exit Sign	AW-EL302	<ul style="list-style-type: none"> √ 110V-120VAC or 220VAC 50Hz √ All housing and 6mm acrylic panel √ 8 LED, 0.5W √ 3.6V 500mAh Ni-Cd √ >90 min

DETECTOR TESTER SERIES



Smoke Detector Tester AW-D201

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

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

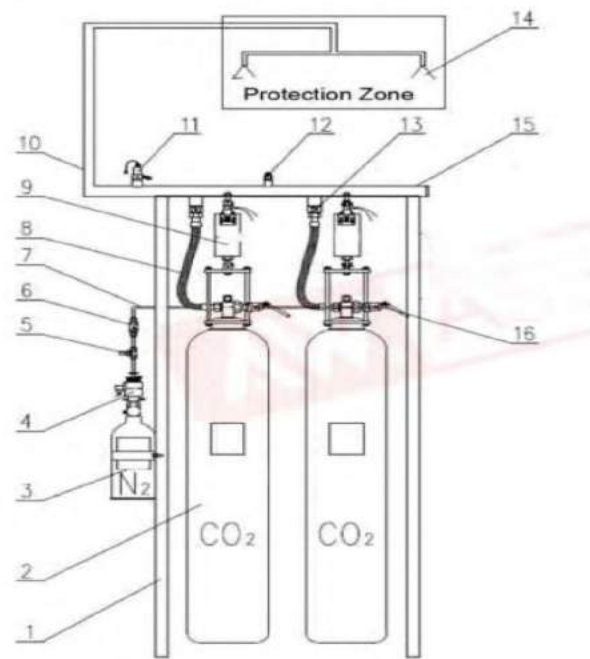
Flame Simulator AW-D204



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 u m-5.5 u m)
Ultraviolet waveband scope of (185nm-255nm)

CO₂ Gas Extinguishing System

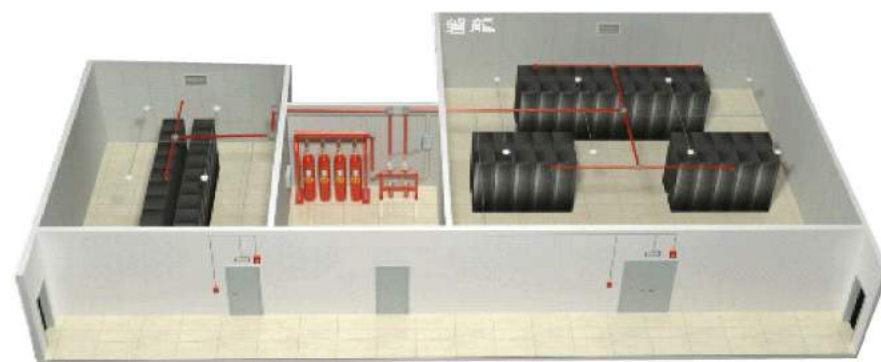
CO₂ Gas Extinguishing System is a kind of intelligent automatic extinguishing system. In accordance with requirements for use in different places for application, the unit independent system and combined distribution system can be constituted and the way of total flooding extinguishing can be used in order to realize the extinguishing protection of single protection area and multi-protection area. CO₂ 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

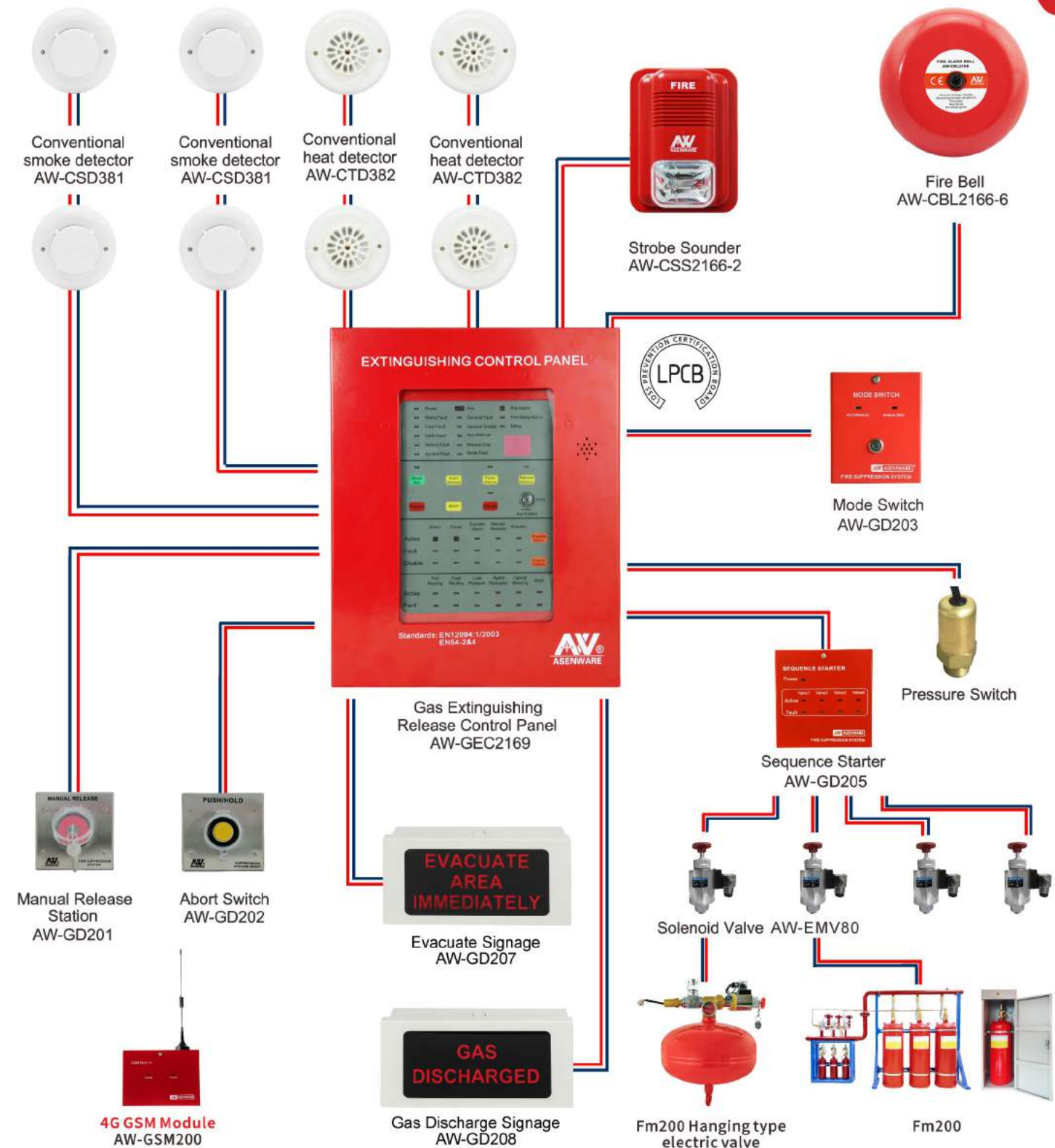


AW ASENWARE
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GAS EXTINGUISHING SYSTEM



ASENWARE





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



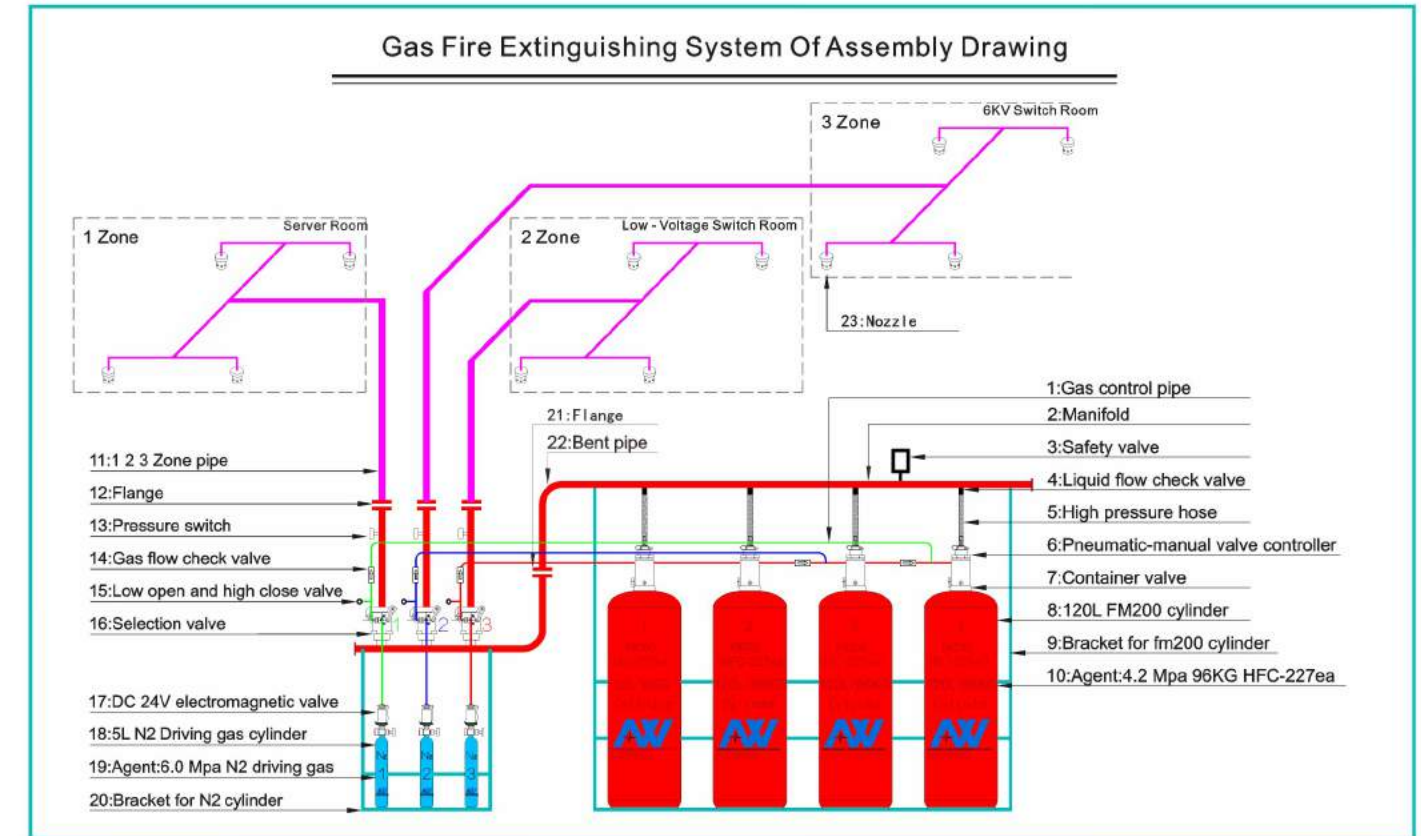
**Fire Extinguishing System
FM200/FK-5-1-12**



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, CO2, 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).



Cabinet Type



Manifold Type

Hanging Type Gas Extinguishing System

Different from network type of FM200, hanging type will be hanged on the ceiling or attached on the wall.



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/CO2
Working Pressure: 15bar
Tube Melting Point Temperature: 160°C ± 10°C





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		



Only for Fire Safety

FIRE SPRINKLER SYSTEM



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 that 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 gauge 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. Fire Sprinkler System is suitable for many types of buildings to install, not only factories, large commercial buildings, but also for small building and home. 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

Dimensions(mm)						
Nominal Diameter(mm)	OD	A	B	∅d	∅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



Deluge Alarm Valve

Nominal Diameter (mm)	Maximum working 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*26	1185*460*598



Pre-action Alarm Valve

Nominal Diameter (mm)	Nominal 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 x 2.5"
Inlet Size	4"
Material	Cast Iron
Working Pressure	15 Bar



3 Way Fire Hydrant

Outlet Size	1 x 4" & 2 x 2.5"
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



Thread Type Landing Valve

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



2 Way Breeching Inlet

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



4 Way Breeching Inlet

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



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



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



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



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



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



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			



Sight Flow Glass type
DN15-25



Sight Flow Thread type
DN32-DN80



Sight Flow Flange type
DN200



Flexible Coupling
DN 50-DN 200



Check Valve
DN 50-DN 200



Flow Meter
DN 50-DN 200



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 Thickness(American Standard ANSI B36.10 B36.19M)

Nominal Pipe Size	Outside Diameter	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	12.70	15.09	18.26	21.44	25.4	28.58	33.32	25.4
12	300	323.9	4.57	--	6.35	8.38	9.53	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 (Threaded Type)
			
Galvanized Steel End Cap	Galvanized Steel Blind Flange	Galvanized Steel Slip On Flange	Flexible Mechanical Grooved Coupling

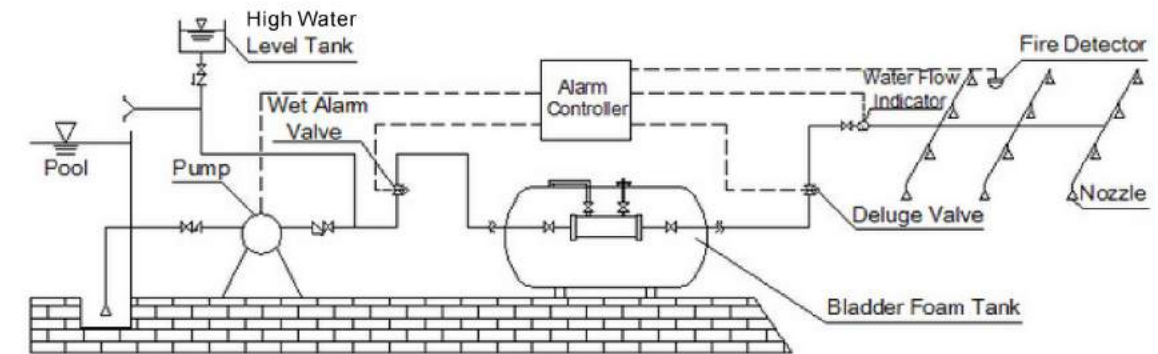
Foam Fire Extinguishing System

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 rechange foam concentrate.

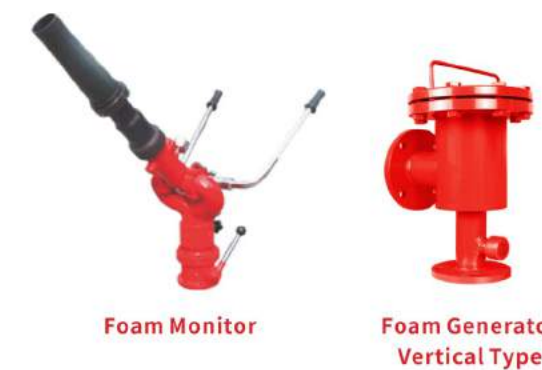


Horizontal type

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 Generator Vertical Type

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

Embedded & Wall-mounted Type Cabinet

Customizable size and design cabinet for options



Fire Hose Reel Cabinet



Fire Hose Reel Cabinet



Fire Hose Cabinet



Extinguisher Cabinet



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

Fire Blanket



Fire Blanket Box Package



Fire Blanket Plastic Package



Hose Rack



Hose Adapter



Right Angle Valve



Hose Nozzle



Hose Coupling



Fire Hose

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 ×34 ×21cm
AW-FB103	1.2m*1.2m	0.64kg	0.9kg	20pcs/52 ×34 ×21cm
AW-FB105	1.5m*1.5m	1.10kg	1.3kg	15pcs/52 x34 ×21cm
AW-FB107	1.2m*1.8m	0.93kg	1.35kg	15pcs/52 x34×21cm
AW-FB109	1.8m*1.8m	1.39kg	1.8kg	10pcs/42 ×34×21cm

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 ×34 ×21cm
AW-FB104	1.2m*1.2m	0.64kg	0.7kg	20pcs/42 ×34 ×21cm
AW-FB106	1.5m*1.5m	0.98kg	1.1kg	15pcs/42 x34 ×21cm
AW-FB108	1.2m*1.8m	0.95kg	1.05kg	15pcs/42 x34×21cm
AW-FB110	1.8m*1.8m	1.39kg	1.45kg	10pcs/42 ×34×21cm