

★ **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**

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YouTube



Website



TikTok



*Only for Fire Safety*



# 2025 CATALOG



Conventional  
Fire Alarm System  
AW-CFP2166



TÜV Rheinland  
Addressable  
Fire Alarm System  
AW-FP200



LPCB  
Fire Suppression  
System  
AW-GEC2169



TÜV Rheinland  
Voice Evacuation  
System



DEKRA  
Emergency  
Luminaire



CE  
Gas Suppression  
System



CE  
Water/Foam  
Suppression System

# COMPANY PROFILE

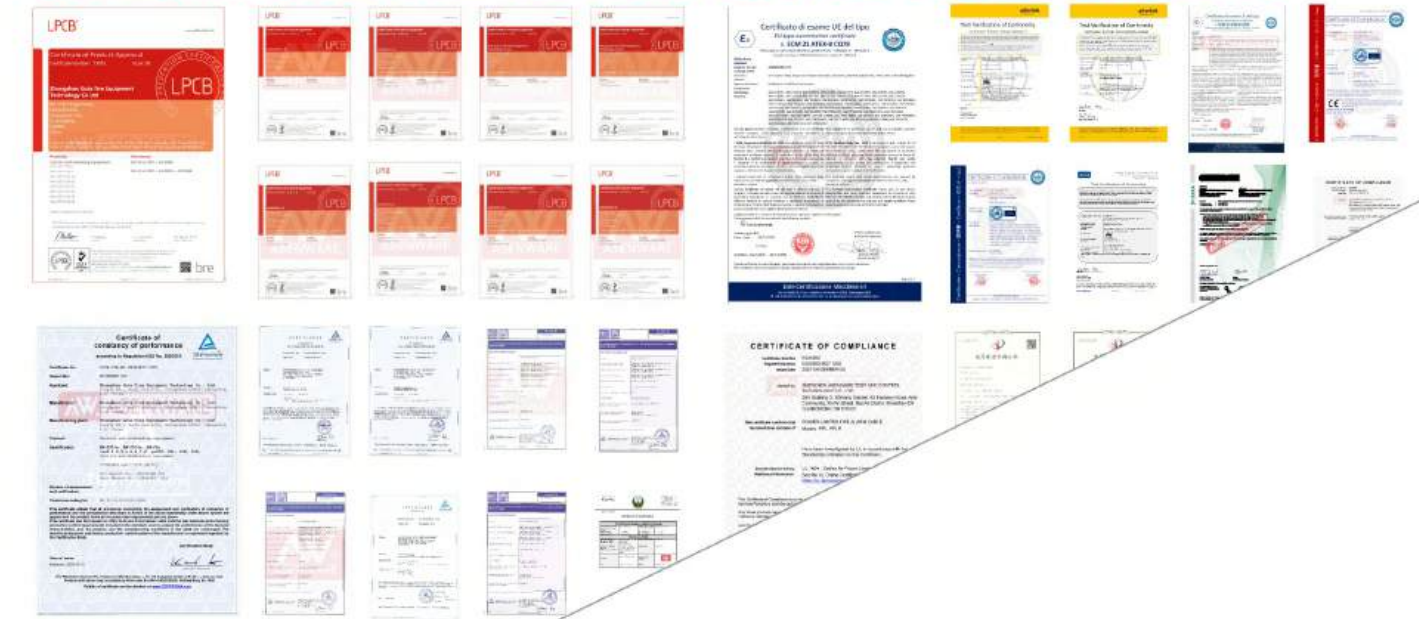


ASENWARE is the fire alarm system and fire suppression system manufacturer and whole fire safety solution provider since 2005.

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 21 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 DOP certificates, and others for different products.

# INTERNATIONAL CERTIFICATES AND PATENTS



<p><b>2005</b></p> <p><b>ASENWARE</b></p> <ul style="list-style-type: none"> <li>Group Establishment</li> </ul>	<p><b>2016</b></p> <p><b>Intertek</b></p> <ul style="list-style-type: none"> <li>Conventional Fire Alarm Panel 1-32 zone AW-CFP2166-1/2/4 /6/8/12/16/20/24/28/32</li> </ul>	<p><b>2017</b></p> <p><b>LPCB</b></p> <ul style="list-style-type: none"> <li>Conventional Smoke Detector AW-CSD381</li> </ul> <p><b>TUV</b></p> <ul style="list-style-type: none"> <li>Emergency lights AW-EL101</li> <li>Suspended LED Acrylic Exit Sign AW-EL301</li> </ul>	<p><b>2018</b></p> <p><b>LPCB</b></p> <ul style="list-style-type: none"> <li>Conventional Heat Detector-AW-CTD382</li> <li>Infrared Linear Reflex Beam Smoke Detector AW-BK901</li> <li>Addressable Fire Alarm Control Panel AW-FP300</li> <li>4 Wire Addressable Input Output Module AW-D319</li> <li>Addressable Heat Detector - AW-D302</li> <li>Addressable Smoke Detector-AW-D301</li> <li>Addressable Manual Call Point- AW-D305</li> <li>Loop Isolator-AW-D314</li> <li>Addressable Sounder Beacon- AW-D306</li> <li>Conventional Sounder Beacon- AW-D316</li> </ul> <p><b>TUV</b></p> <ul style="list-style-type: none"> <li>AW-EP500 GT-EP500 LVD</li> <li>AW-EP500 GT-EP500 AK</li> <li>AW-EL101</li> </ul>	<p><b>2019</b></p> <p><b>LPCB</b></p> <ul style="list-style-type: none"> <li>Conventional Fire Alarm Panel 4-32 zone AW-CFP2166-4/8/12/16/20/24/28/32</li> </ul> <p><b>Intertek</b></p> <ul style="list-style-type: none"> <li>Conventional Fire Alarm Panel 2-32 zone AW-CFP2166-2/4/8/12/16/20/24/28/32</li> <li>Standalone Detector-AW-STD606</li> <li>Standalone Detector-AW-STD606D</li> <li>Standalone Detector-AW-SST606D</li> </ul> <p><b>TUV</b></p> <ul style="list-style-type: none"> <li>Centralized Monitoring Emergency Light AW-CEL101</li> <li>Centralized Monitoring Exit Sign AW-CEL301</li> </ul>	<p><b>2020</b></p> <p><b>DEKRA DEKRA</b></p> <ul style="list-style-type: none"> <li>Emergency lights AW-EL101</li> <li>Suspended LED Acrylic Exit Sign AW-EL301</li> <li>Emergency Lighting Test Panel AW-EP500</li> </ul>	<p><b>2021</b></p> <p><b>UL</b></p> <ul style="list-style-type: none"> <li>Fire Alarm Cable - AW-FPLR2X1/1.5/2.5</li> </ul> <p><b>LPCB</b></p> <ul style="list-style-type: none"> <li>Conventional Manual Call Point AW-D135C</li> <li>Addressable Manual Call Point AW-D135A</li> </ul> <p><b>CE ECM</b></p> <ul style="list-style-type: none"> <li>Explosion Proof Fire Alarm Products</li> </ul>	<p><b>2022</b></p> <p><b>LPCB</b></p> <ul style="list-style-type: none"> <li>AW-FP300 AW-FP312</li> <li>AW-D309 AW-D310 AW-D319</li> <li>AW-D321 AW-D303 AW-D307</li> </ul> <p><b>TUV</b></p> <ul style="list-style-type: none"> <li>LPG Gas Detector -AW-D132</li> <li>CO Detector- AW-D125</li> </ul> <p><b>CE ECM</b></p> <ul style="list-style-type: none"> <li>Fire Hose Reel And Fire Hose Rack</li> <li>Fire Sprinkler</li> <li>Fire Pump</li> <li>Fire Blanket</li> <li>Gas Suppression System</li> <li>Solenoid Valve</li> <li>Fire Bell And Strobe Sounder</li> </ul> <p><b>DEKRA DEKRA</b></p> <ul style="list-style-type: none"> <li>Emergency Lights-AW-EL101</li> <li>Twin-Spot Emergency Light-AW-EL208</li> </ul>	<p><b>2023</b></p> <p><b>TUV</b></p> <ul style="list-style-type: none"> <li>Addressable Wired and Wireless Fire Alarm Panel</li> <li>Addressable Smoke Detector</li> <li>Addressable Heat Detector</li> <li>Standalone Smoke Detector</li> <li>Standalone Heat Detector</li> <li>Wifi Detector</li> <li>Wireless Detector</li> <li>LPG Gas Detector</li> <li>Addressable And Conventional Strobe Sounder Base</li> <li>Addressable Module</li> <li>Addressable Smoke Detector</li> <li>Addressable Smoke And Heat Detector</li> </ul> <p><b>CE ECM</b></p> <ul style="list-style-type: none"> <li>Foam Fire Suppression System</li> </ul> <p><b>UL</b></p> <ul style="list-style-type: none"> <li>Linear Heat Cable</li> </ul>	<p><b>2024</b></p> <p><b>TUV</b></p> <ul style="list-style-type: none"> <li>Addressable Wired and Wireless Strobe Sounder</li> <li>Addressable Wired and Wireless Fire Alarm Panel</li> <li>Addressable smoke and heat detector</li> <li>Addressable strobe sounder base</li> <li>Addressable Input and Output Modules</li> <li>Conventional Water-proof Strobe Sounder</li> <li>Conventional smoke and heat detector</li> <li>Conventional strobe sounder base</li> </ul> <p><b>CE ECM</b></p> <ul style="list-style-type: none"> <li>Valve</li> <li>Extinguisher</li> </ul> <p><b>SIL ECM</b></p> <ul style="list-style-type: none"> <li>Explosion Proof Fire Equipment</li> </ul>	<p><b>2025</b></p> <p><b>TO BE CONTINUED</b></p>
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# CATALOGUE

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

**AW ASENWARE**  
Only for Fire Safety



**ADDRESSABLE FIRE ALARM CONTROL SYSTEM**



**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	60m²
Installation Height	≤8m



**Loop Isolator AW-D314**

Line Voltage	16-28 VDC
Standby Current	≤3mA
Capacity	32 devices
Maximum Voltage At Which The Device Isolates	B - 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 Zone Module AW-D310**

Operating Voltage	Signal Loop 24V(18V~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 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 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



**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	≤2mA
Sounder Level	≥75dB@1m
EN54-23 Coverage	C-3-8/W-2-4-6
Power Consumption	
AW-D306	≤3.2W@DC24V
AW-D307	≤0.2W@DC24V
AW-D316	≤2.4W@DC24V



**Addressable Sounder Beacon AW-D306**

EN54-3 (Type A) Standard	
Working voltage	DC22V-28V
Power consumption	≤0.29W@DC24V
Standby Current	<0.8 mA
Alarm Current	1mA-12mA
Flash Rate	1~1.5Hz
Maximum sound output	≥104dB (A)@1m
Tone type	7 User-selectable tones



**Addressable Sounder Beacon (Water Proof) AW-D306**

EN54-3 (Type B) Standard	
Working voltage	DC22V-28V
Power consumption	≤0.29W@DC24V
Standby Current	<0.8 mA
Alarm Current	1mA-12mA
Flash Rate	1~1.5Hz
Maximum sound output	≥95dB (A)@1m
IP65	



**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.



**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.



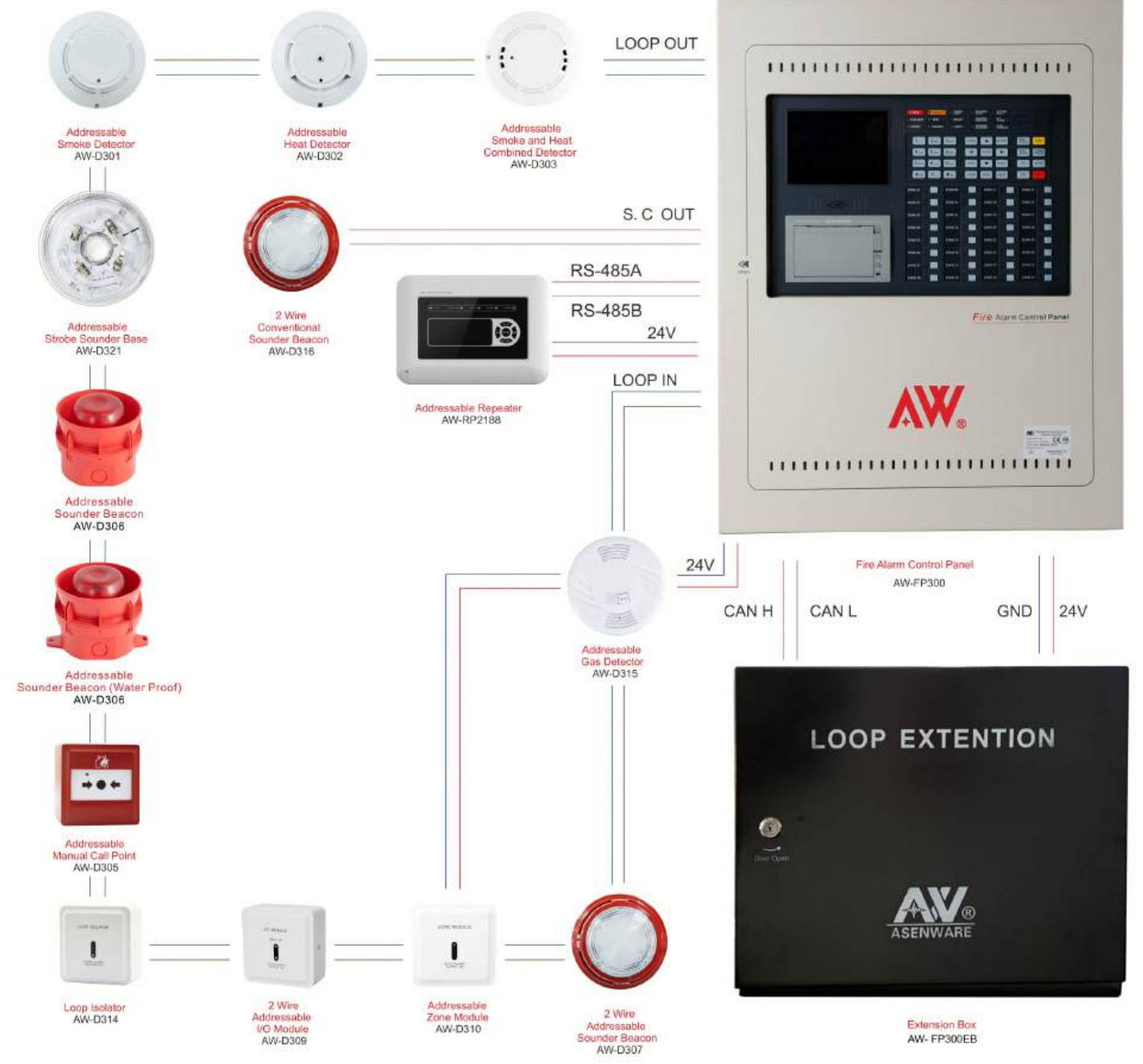
**Addressable sounder beacon waterproof base AW-BS03**  
Made of ABS material  
Complies with IP65 rating



**4G GSM Module AW-GSM200**



**Extension Box AW-FP300EB**  
Extend 1 to 6 Loop cards



## 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
Connect with AW-RP2188 for remote indication
Check linked devices status. Support PC set software
Support graphic monitoring software

# 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
- Communication fault monitoring function (Optional)



**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

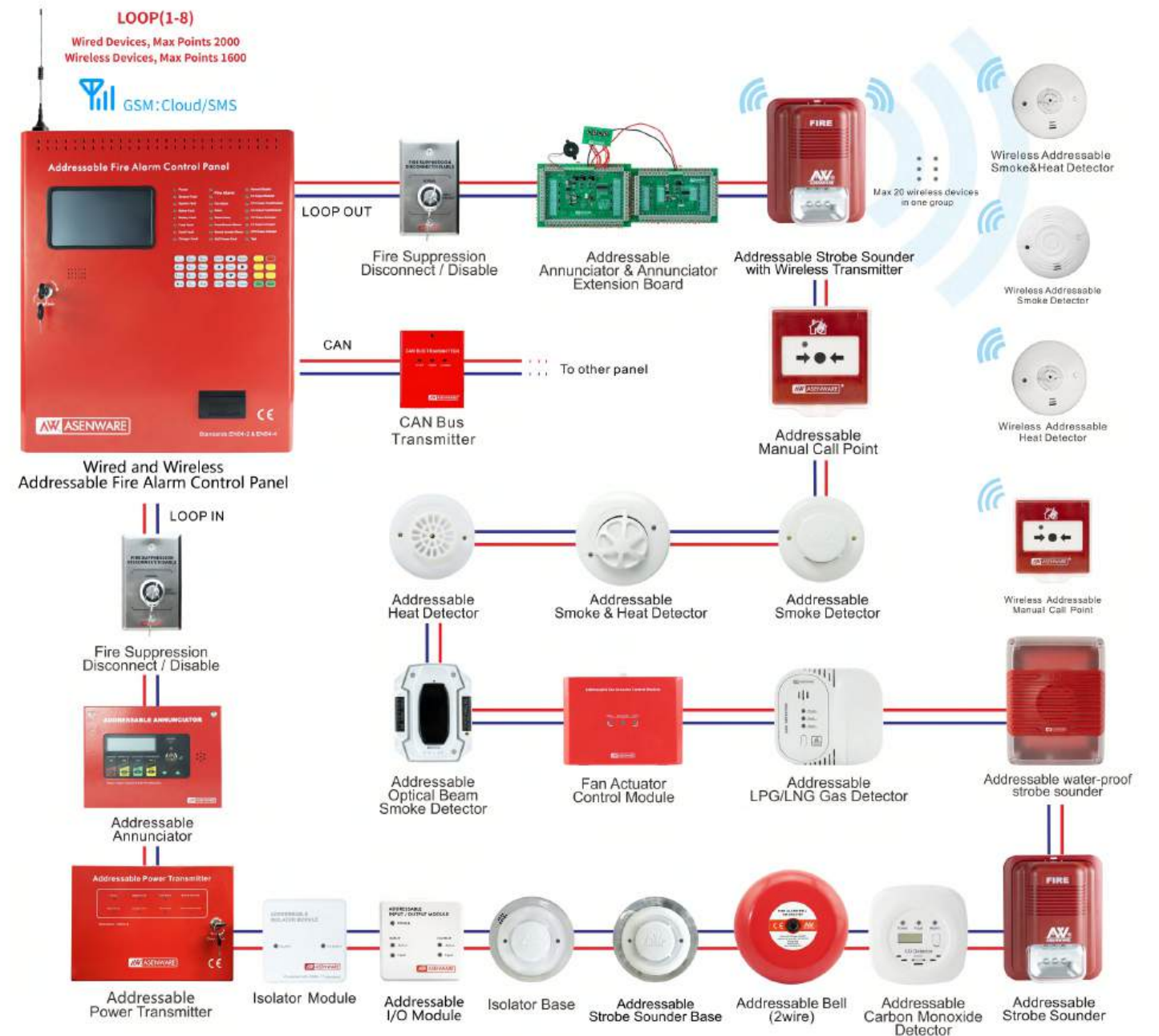
**Wireless CO Detector**  
AW-D125L

# AW ASENWARE Only for Fire Safety

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



# ADDRESSABLE FIRE ALARM CONTROL SYSTEM







**Addressable Smoke Detector**  
AW-D101

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



**Addressable Heat Detector**  
AW-D102

Operating Voltage	18V~28VDC
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~28VDC
Standby Current	≤1.5mA
Smoke Sensitivity	0.18-0.3dB/m
Fix Temperature Alarm	57°C(135°F)
Heat Response Categories	A2R



**Addressable Alarm Bell**  
AW-D109

Operating Voltage	18~28VDC @Loop
Standby Current	≤0.5mA
Alarm Current	≤50mA
Alarm SPL	≥98 dB
Size	Dia. 150mm



**Addressable Strobe Sounder**  
AW-D106

Operating Voltage	18~28VDC @Loop
Standby Current	≤3mA
Alarm Current	≤70 mA
Alarm SPL	≥100 dB
Flash Period	1.0 Sec.



**Addressable Manual Call Point**  
AW-D135A

Operating Voltage	24VDC @Loop
Working Current	≤4mA
IP Rating	IP30
Green LED indicator	Normal Condition
Red LED indicator	Alarm Condition



**Fire Suppression Disconnect/Disable**  
AW-GD209

Switch capacity	3A@30VDC
Size(L*W*H)	115mm(L)*70mm(W)*65mm(D)
Weight	About 320g



**Addressable LPG Gas Detector**  
AW-D132A

Main Voltage	24VDC @Loop
Temperature	-10°C to +50°C (14°F-122°F)
Sounder Level	≥85dB @3m
Ambient Humidity	≤95% RH
Gas Detection	LPG/LNG
Alarm Output	DC12V pulse voltage and relay(COM, NO)



**Addressable Carbon Monoxide Detector**  
AW-D125A

Operating current	20-28VDC @Loop
Standby status	≤5mA
Alarm status	≤20mA
CO Detection Range	0-999 PPM
Standard	EN 50291-1-2018
Temperature	-10°C to +40°C (14°F-104°F)
Ambient Humidity	≤95% RH (non-condensing)

## Addressable Optical Beam Smoke Detector (with 4 reflectors)



### AW-D130A

AW-D130A Addressable Optical Beam Smoke Detector is composed of panel, interface board, key indicator light, optical mirrors, red laser head, can be configured with Asenware AW-FP200/ AW-FP128 addressable fire alarm panel, each device can be given an address to help people monitor the location of the device. First positioned by laser, then the screws are adjusted, and the focus is automatically adjusted with one button. No need to open the cover for positioning. The standard configuration of the mirrors is 4 pieces, and the mirror package contains 5 pieces, which need to be purchased separately.



Operating Environment	
Working Voltage:	Loop 24V
Working Current:	Static current ≤10mA@DC24V, In normal conditions, fault current ≤20mA@DC24V, alarm current ≤15mA@DC24V
Working Temperature: -10°C~50°C	Working Humidity: ≤95% RH(non-condensing)
160m Laser Concentricity: ≤1°	Relay Load Capacity: 1A@DC24V
Alarm Sensitivity: High ≤2.6dB; Medium ≤3.8dB; Low ≤5dB(default is Medium)	Standard Number Ref: EN54-12
Optical Detection Distance:	5 -160m
Detection distance is less than 20m, install 1 piece mirror	
Detection distance is within 20-100 m, install 4 pieces (2*2) mirrors	
Detection distance is above 100m, install 9 pieces(3*3), including 4 standard mirrors and a mirror package of 5 mirrors	

## Addressable water-proof strobe sounder

### AW-D150

The AW-D150 addressable water-proof strobe sounder, with an intermittently acoustic signal with intensity and with a flashing LED light. It can be power at 12~28VDC @Loop(typical 24V), 2 wire connection for power, use with AW-FP200 series addressable fire alarm panel, can set location for the strobe sounder, help people quickly locate and eliminate fire hazards, suitable for outdoor project with IP65 protection level.



Technical Specification	
Operating voltage	12~28VDC @Loop
Standby status ≤0.5mA	Alarm status ≤40mA
Wiring	Two wire for power (DC)
Alarm SPL	≥100 dB @1m
Flash period	1.0 sec
Environmental	Temperature range: -10~50°C(14~122°F)
Humidity	5 to 95% RH, non-condensing
IP Code	IP65

## 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.



## Fan Actuator Control Module

### AW-D127

This device AW-D127 is a Fan Actuator Control Module for addressable fire alarm system AW-FP200/AW-FP128 and conventional fire alarm system.

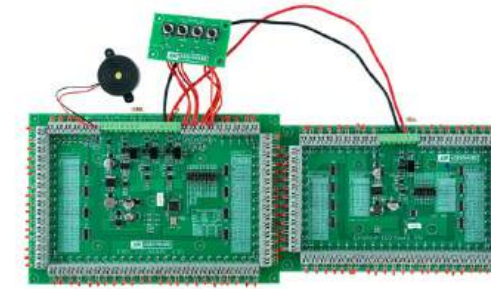
1. Easy to install.
2. Addressable 2-wire communication technology.
3. Control the fan actuator by manual / automatic operation.
4. Output Power failure status can be maintained by magnetic retention relay. (Actuator motor open circuit detection)
5. Mains Input power failure monitoring function.
6. Addressable fire alarm panel communication monitoring.
7. Position feedback terminal of fan for more than 85 degree and less than 5 degree.
8. Open box detection.



## CAN Bus Transmitter

### AW-D122

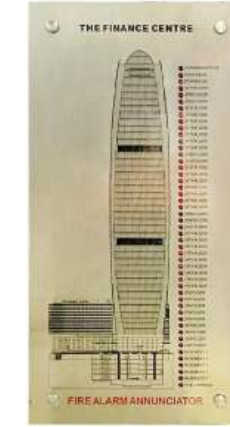
This CAN Bus Transmitter AW-D122 is designed for extend the distance of CAN Bus communication. It is suggested to be installed over each 400 meters.



DIY



Annunciator



LED Repeater

## Addressable Annunciator & Annunciator Extension Board

### AW-D117 & AW-D118

AW-D117 & AW-D118 Addressable Annunciator & Annunciator Extension Board are devices that can monitor and display fire/fault status of addressable devices or zones, and can remotely silence and reset fire alarm panel. It is designed to cooperate with AW-FP series addressable fire alarm panel. It is equipped with a keypad and buzzer.

Features	
Communication mode:	AW-D117 annunciator communicate with fire alarm panel through CAN, can remotely silence and reset fire alarm panel. AW-D118 extension board connect with AW-D117 through RS458
Monitor status of addressable devices or zones	Communication Baud Rate adjustable
Working Voltage: 14 -28VDC	Standby Current: ≤ 70mA 24VDC
Indication Quantity:	A single AW-D117 annunciator can supports up to 64 zones, and can connect up to 31 pieces AW-D118 Annunciator Extension board, maximum 2000 devices can be supported

## 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
2.6-inch displaying screen, multiple languages
Two connection communication modes (CAN/LOOP)
Permission lock
Buzzer indication
Reset button and silence button controlling the connecting fire alarm panel



## 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 power transmitter**  
AW-D121



**Conventional power supply box**  
AW-D121C

AW-FP200 Addressable Fire Alarm System	AW-CFP2166 Conventional Fire Alarm & AW-FP300 Addressable Fire Alarm System
3A@24VDC output	24VDC output short circuit protection function
	Selectable input modes to reset 24VDC output
EN54-4 standard	
Include battery charger, 12V2.3AH *2 batteries optional	
Function: to provide auxiliary power when there is no enough power from panel to devices	



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

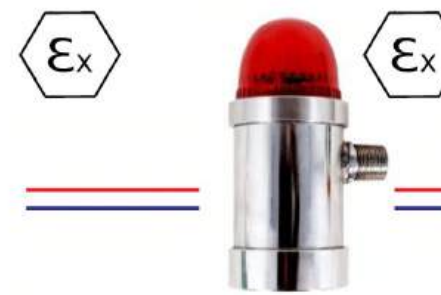
**Addressable Explosion-proof Smoke Detector with Base**  
AW-D101EX



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



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



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



**Wired and Wireless Addressable Fire Alarm Control Panel**  
AW-FP200



**Addressable Explosion-proof  
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  
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



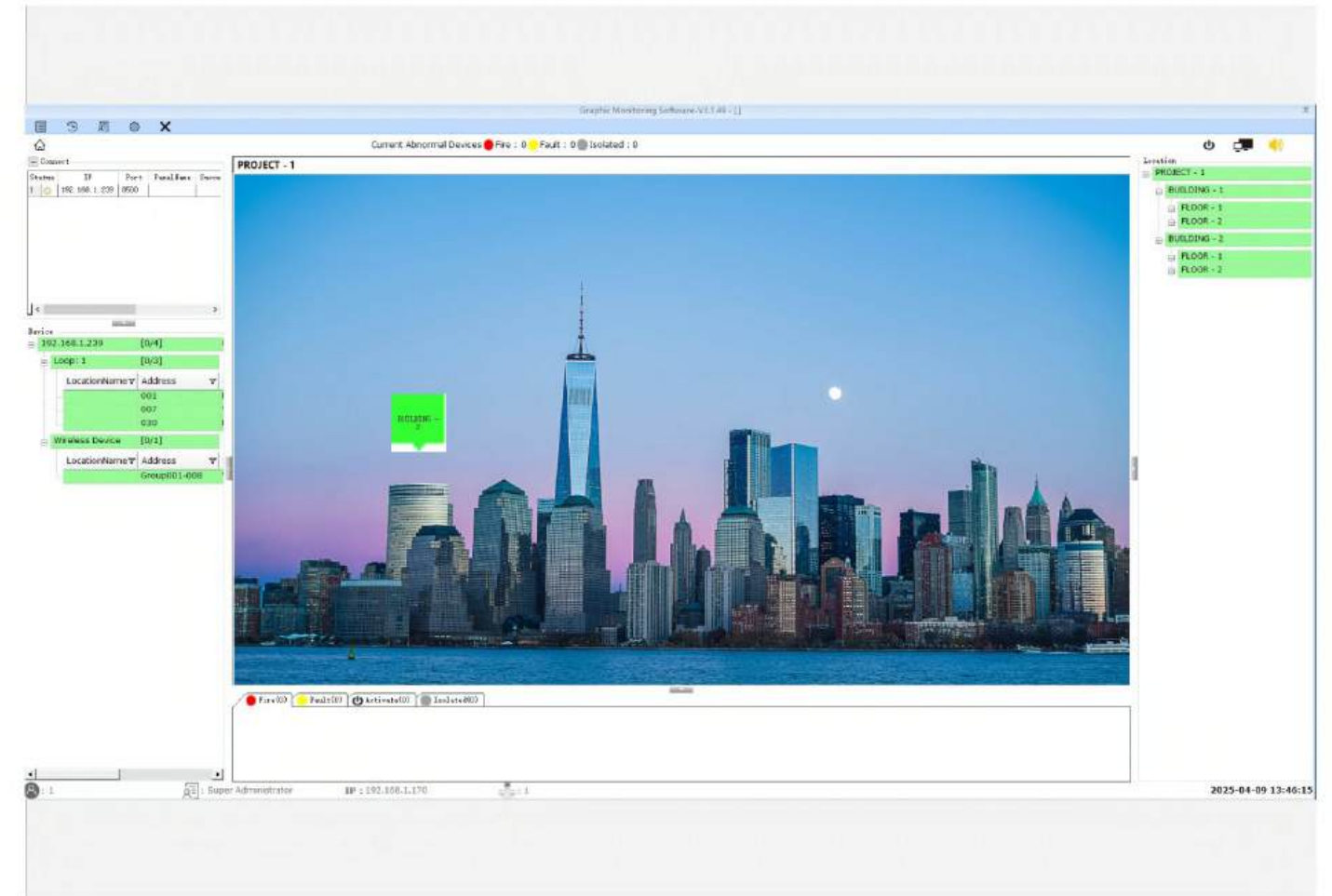
**Addressable Explosion-proof  
Strobe Sounder  
AW-D106EX**

Main Voltage:	Loop 24VDC
Operating current:	Monitor: ≤1.2mA Alarm: ≤250mA
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

**New Cloud GMS** software (for computers) and a browser (for mobile) to enable real-time, cross-regional project monitoring via the Internet and cloud servers.



**Fire Alarm Control Panel**  
**AW-FP032**

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	
Optional GSM module, can support for both cloud function and SMS function (up to 10 mobile phone numbers)	
Optional Wi-Fi function: work through Tuya app, then can check devices situation at phone	

Technical Specification	
Rated input voltage	100V-240VAC, 50Hz/60Hz
Standby battery	2000mAh 3.7V/ lithium battery
Working environment	Relative humidity (<95%) at -20 ~50 °C, no condensation)
Number of connected devices	99PCS

**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	



**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
Max points of each zone: 16 PCS ( including MCPs )	Optional 12V 2.3Ah High-capacity batteries, automatic power switch over
Fault supervision and notification	2 relay output circuits
2 sounder output circuits	2 wires RS485 bus system
Sounders and panel buzzer silence	Smaller size and easier for installation



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

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

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

**6 Inch Fire Bell**  
AW-CBL2166-6

**8 Inch Fire Bell**  
AW-CBL2166-8

**Horn Strobe**  
AW-CSS2166-4

**Conventional Photo-Electric Smoke Detector**  
AW-CSD381-4W

	AW-CSD381	AW-CSD381-4W
Main Voltage	9-28VDC	9-28VDC/24-60VDC
Monitoring Status	≤120uA	≤120uA @NO ≤12mA @NC
Alarm Status	≤15mA	≤20mA @NO ≤5mA @NC
Alarm Sensitivity	AW-CSD381: 0.08 to 0.11dB/m AW-CSD381-4W: 0.18 to 0.3dB/m	

Main Voltage	9-28VDC
Monitoring Status	≤120uA
Alarm Status	≤15mA
Alarm Sensitivity	0.18 ~ 0.3 dB/m

	AW-CTD382	AW-CTD382-4W
Main Voltage	9-28VDC	
Monitoring Status	≤120uA	≤120uA @24VDC NO ≤12mA @24VDC NC
Alarm Status	≤15mA	≤20mA @24VDC NO ≤5mA @24VDC NC
Fix Temperature Alarm	57°C(135°F)	
Rate of Rise Alarm	7.1°C/5s	

Working Voltage	20V-28VDC
Working Current	≤50mA@24VDC
Sound Level	≥98dB @1m
Polarized with 2 diodes	

Working Voltage	20V-28VDC
Working Current	≤50mA@24VDC
Sound Level	≥100dB@1m
Polarized with 2 diodes	

Operating Voltage	12~24VDC
Operating Current	≤110mA
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	9-28VDC
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  
**Conventional Combined Smoke And Heat Detector**  
AW-D138C-4W

	AW-D138C	AW-D138C-4W
Operating voltage	9-28VDC	
Standby Current	≤120uA @Zone 24VDC	≤120uA @24VDC NO ≤12mA @24VDC NC
Maximum Alarm Current (LED on) @Zone 24VDC	≤20mA	≤20mA @24VDC NO ≤5mA @24VDC NC
Heat Response Category	A2R	



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

Operating Voltage	12~28VDC
Alarm level	≥85dB /3m
Sensitivity	Grade 1
Operating Temperature	-10°C~50°C



**Horn Strobe**  
AW-CSS2166-5

Operating Voltage	12~28VDC
Operating Current	≤300mA
Sound Level	≥105dB@1m
Flash Period	≤2.0 S
Alarm Sound Types	1 kind



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

Operating Voltage	12~24VDC
Operating Current	30mA
Sound Level	≥88dB@1m
Flash Period	≤2.0S
Alarm Sound Types	1 kind



**Entrance LED Indicator**  
AW-EL102

Operating Voltage	1.9~2.5VDC
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	16~24VDC
Working Current	≤15mA
IP Rating	IP30
Green LED indicator	Normal Condition
Red LED indicator	Alarm Condition



**Horn Strobe**  
AW-CSS2166-2

Operating Voltage	12-24VDC
Operating Current	≤50mA
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-3-8W-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



**Fire Alarm Repeater**  
AW-CRP2166

Operating Voltage	18~24VDC
Communication Method	RS485
Reset & Silence Function	Available
Working Humidity	5 to 95%RH
Working Temperature	-5 ~ 40°C
GSM module	Optional
Size	187.5mm*270mm*35mm



**Water-proof Strobe Sounder**  
AW-D106C

Operating Voltage	85~264VAC or 10~28VDC (typical 24V)
Operating Current	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
IP Code	IP65



**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	9VDC
Monitoring Status	≤8uA
Alarm Status	≤20mA
Weight	about 120g
Alarm SPL	≥85db@3m



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

Operating Voltage	20-28VDC or 3V battery
Standby Current	≤10mA
Alarm Current	≤20mA
Detection Range	0~999 PPM



**Standalone LPG Gas Detector**  
AW-D132

Operating Voltage	24VDC&220VAC
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)



**Standalone Gas Detector Control Valve**  
AW-EMV15

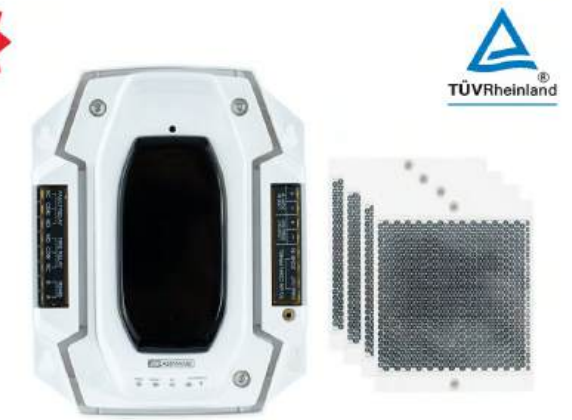
Applicable Gas	Natural gas, liquefied petroleum gas
Closing Mode	Direct current pulse drive/ manual
Rated Voltage	9~12VDC
Output Mode	Normally open
Nominal Diameter	DN15.DN20



**4G GSM Module**  
AW-GSM200

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

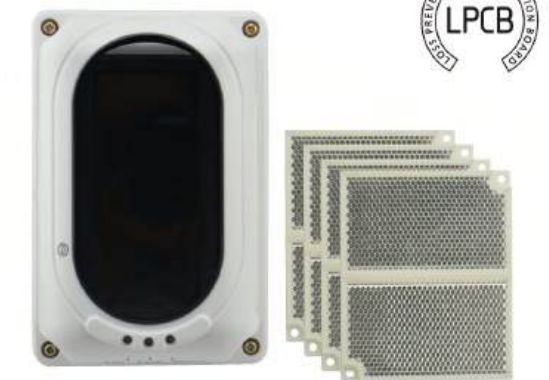
**Conventional Optical Beam Smoke Detector (with 4 reflectors)**  
AW-D130C



AW-D130C Conventional Optical Beam Smoke Detector is composed of panel, interface board, key indicator light, optical mirrors, red laser head. It is first positioned by laser, then the screws are adjusted, and the focus is automatically adjusted with one button. It don't need to open the cover for positioning. The standard configuration of the mirrors is 4 pieces, and the mirror package contains 5 pieces, which need to be purchased separately.

Operating Environment	
Working Voltage:	24VDC
Working Current:	Static current ≤10mA@24VDC, In normal conditions, fault current ≤20mA@24VDC, alarm current ≤15mA@24VDC
Working Temperature:-10°C~50°C	Working Humidity: ≤95%RH (non-condensing)
160m Laser Concentricity: ≤1°	Relay Load Capacity: 1A@24VDC
Alarm Sensitivity: High ≤2.6dB; Medium ≤3.8dB; Low ≤5dB (default is Medium)	Standard Number Ref: EN54-12
Optical Detection Distance:	5 -160m
Detection distance is less than 20m, install 1 piece mirror	
Detection distance is within 20-100 m, install 4 pieces (2*2)	
Detection distance is above 100m, install 9 pieces(3*3), including 4 standard mirrors and a mirror package of 5 mirrors	

**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 <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	

# 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	5VDC (With AC adaptor)
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

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



**Fire Alarm Control Panel  
AW-FP032**

• Max 99 Wireless devices

The below wireless devices are suitable for  
Fire Alarm Control Panel  
AW-FP032



**Wireless Addressable Smoke Detector  
AW-D603L**

Operating Voltage	3V DC
Alarm level	≥85dB /3m
Smoke Alarm Sensitivity	0.18-0.3dBm
Operating Temperature	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)



**Wire and 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

## Gas Alarm Control Panel

### AW-CGD2166EX-Panel

Gas alarm control panel AW-CGD2166EX-Panel is a convenient operation, flammable/toxic gas alarm controller. It can be used with gas detector to form industrial gas alarm system. This product is made of industrial bus, RS485 digital signal is transmitted far away, with strong anti-interference ability and long transmission distance. The controller adopts high-performance processor, which can complete communication alarm within 2 seconds. The controller can connect up to 99 detectors, each detector can set two alarm values, one alarm output. At the same time, it can record 1050 pieces of information.

Technical Specification	
Detection object	All types of gases
Detection range	0~100%LEL/0~N%vol 0~N μmol/mol (The range is determined by the gas sensor)
Alarm volume	≥80dB
Alarm value	High/low alarm value
Power supply	AC220V,50Hz
Working environment	temperature: -20°C~50°C humidity: ≤95%RH



## 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 <sub>4</sub>	C3H8	C6H14	Gasoline	C2H6O
CH <sub>4</sub> O	C3H6	C7H16	Mixture	CH <sub>2</sub> CL <sub>2</sub>
C7H8	C3H6O	C8H18	C10-H16	C4H8O <sub>2</sub>
C2H6	C4H10	C6H6	C4H10	C6H12O <sub>2</sub>
C2H4	C4H8O	C8H10	C3H8O	C2H4O
C2H2	C4H6	C8H12	C2H5CL	C3H6O
C2H6O	C5H12	H <sub>2</sub>	Br <sub>2</sub>	Prop+But
C5H10				

## Types of Toxic Gas

CO	O <sub>2</sub>	O <sub>3</sub>	H <sub>2</sub> S	H <sub>2</sub>
CL <sub>2</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO	NO <sub>2</sub>
CH <sub>2</sub> O	HCL	HCN	EX	NH <sub>3</sub> H

**AW ASENWARE**

Only for Fire Safety

# ASPIRATING SMOKE DETECTION SYSTEM

Aspirating Smoke Detection System

Waterproof Fire Alarm Product

Explosion Proof Fire Alarm Product



## Aspirating Smoke Detection System (Cloud Chamber Technology)

AW-AS200

### AW-AS200 Features

Ultra early fire alarm by detecting pyroelectric smoke ions (sparks), can detect particles as small as 2 nanometers  
Iconic sensors, with high accuracy, fast response and low false alarm rate  
Upto 100 pcs sampling holes, protection area upto 2000 m<sup>2</sup>  
Cloud chamber analysis technology  
RS485 communication function  
With high sensitivity of 0.0002 to 28%(obs/m)



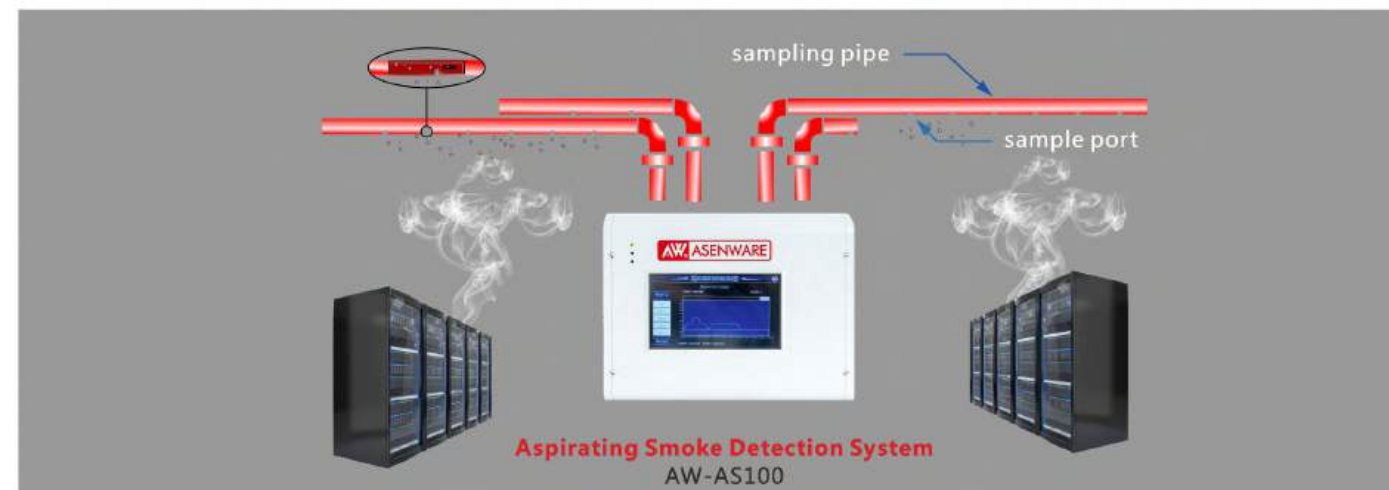
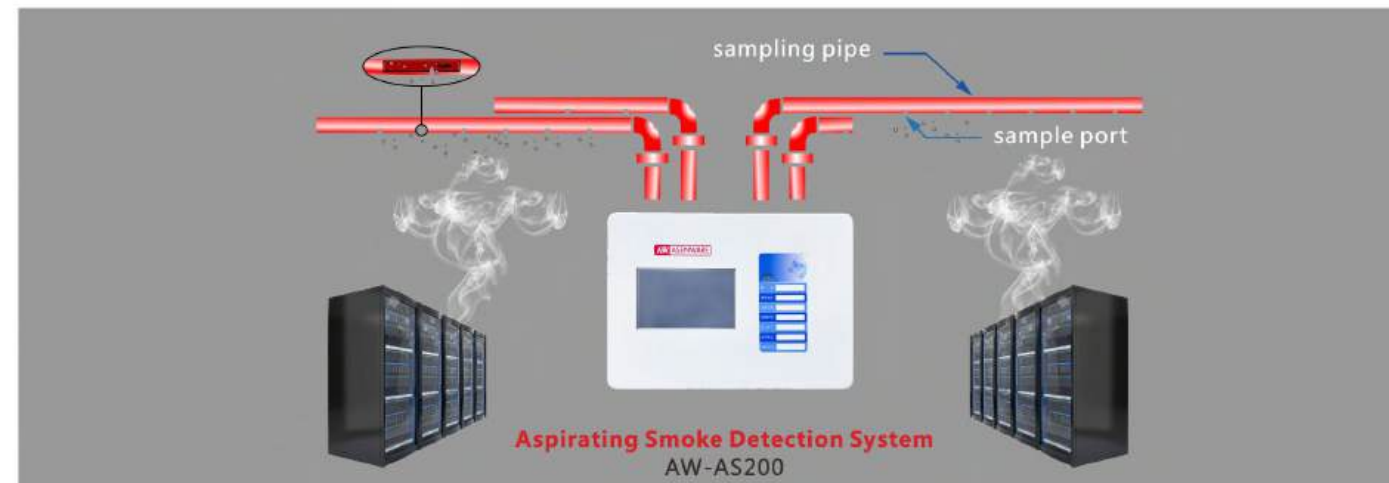
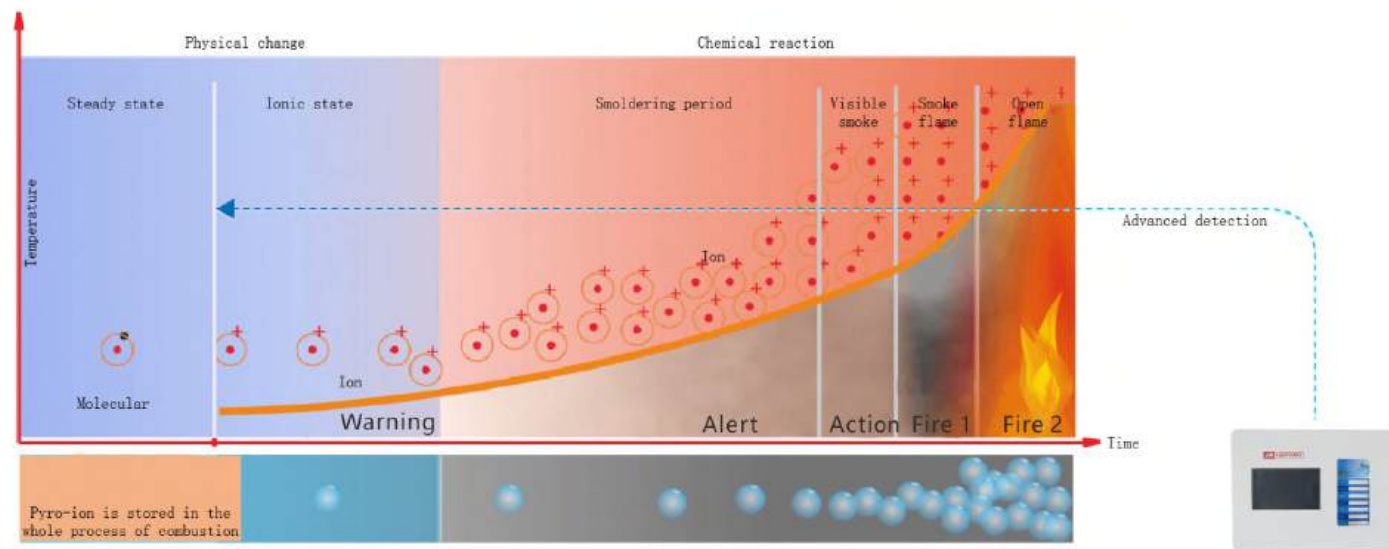
## Aspirating Smoke Detection System (Laser Cavity Technology)

AW-AS100

### AW-AS100 Features

Ultra early fire alarm by detecting smoke particles (continue smoke)  
Laser sensor, faster fire detection and enhanced safety  
Upto 100 pcs sampling holes, protection area upto 2000 m<sup>2</sup>  
Laser cavity analysis technology  
RS485 communication function  
With high sensitivity of 0.005 to 20%(obs/m)

## 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	12~28VDC
Operating Current	≤100 mA
Sound Level	≥100dB@1m
Flash Period	≤2.0 S
IP Rating	IP33



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-CSH831EX

Model No.	AW-CSD381EX	AW-CTD382EX	AW-CSH831EX
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	Alarms25 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	Alarms25 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	Alarms250 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



Explosion-proof manual call point  
AW-D135EX



Explosion-proof fire strobe  
AW-CSS2166EX

Model No.	AW-CSS2167EX	AW-D135EX	AW-CSS2166EX
Operating Voltage	DC 24V	DC 24V	DC 24V
Standby Current	≤250mA	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



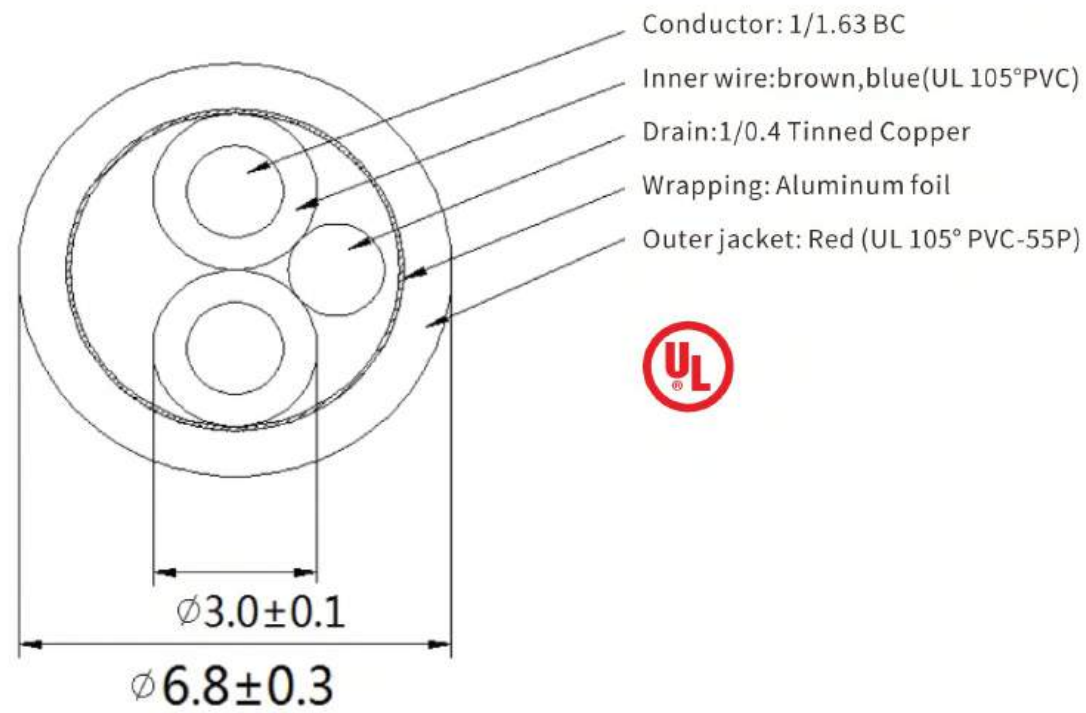
Explosion-proof siren  
AW-SP04EX

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	Sensitivity adjustable in three levels (set by magnetic stick)	Grade I
Main Voltage	24VDC(18-30VDC)	24VDC(18-30VDC)
Ex-Atex Protection Level	Exd IIC T6 Gb/Ex tD A21 IP66 T80°C	Exd IIC T6 Gb/tD A21 IP66/IP67 T80°C
Protection class	IP66/IP67	IP66/IP67
Environmental	Working Temperature:-40C~70°C Storage Temperature:-40°C~85°C Humidity: 0 to 96% RH, non-condensing	Working Temperature:-40C~70°C Storage Temperature:-40°C~85°C 0 ~ 96%RH (non-condensing)
Electrical Interface	2×3/4NPT, M25*1.5, G3/4 (adapters can be customized)	1x3/4NPT, M25*1.5,G3/4, Adapters can be customized according to requirements
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 4.3-5.0um	IR 3.8-5.0um
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/IP67 T80°C	Exd IIC T6 Gb/tD A21 IP66/IP67 T80°C
Protection class	IP66/IP67	IP66/IP67
Environmental	Working Temperature:-40C~70°C Storage Temperature:-40°C~85°C Humidity: 0 to 96% RH, non-condensing	Working Temperature:-40C~70°C Storage Temperature:-40°C~85°C Humidity: 0 to 96% RH, non-condensing
Electrical Interface	1x3/4NPT, M25*1.5,G3/4, Adapters can be customized according to requirements	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	

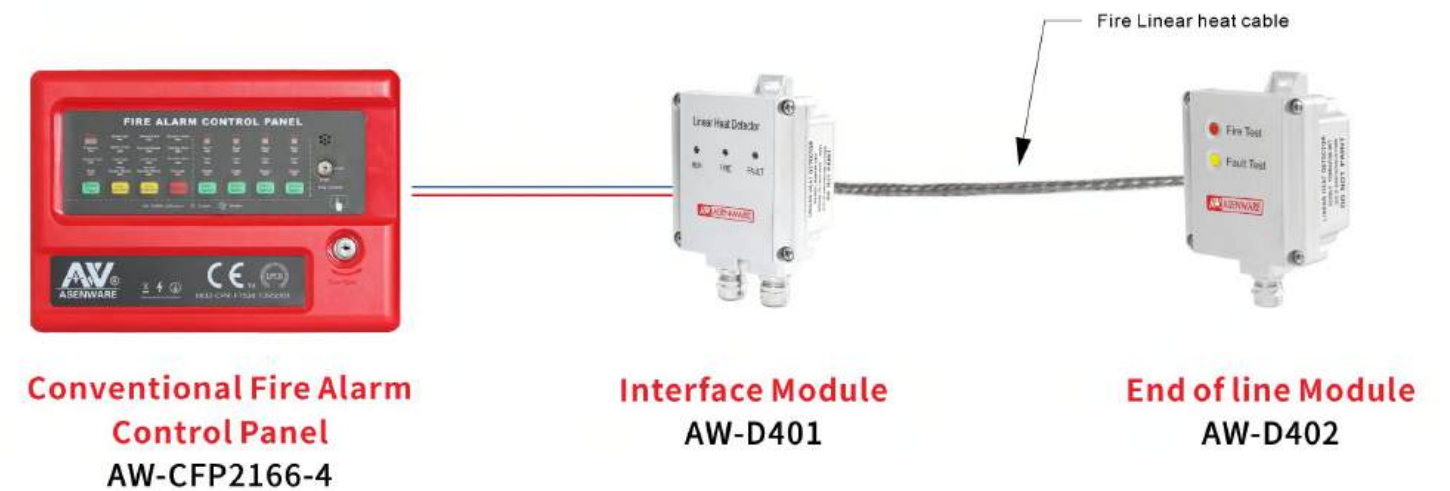


Model	AW-FPLR2X2.5 (14 AWG)
Conductor	1/1.63 solid bare copper
Max conductor resistant Ω/KM (20°C)	8.45
Insulation thickness	0.51 mm
Min insulation thickness	0.46 mm
Inner wire	Brown, blue (flame retardant PVC)
Wire numbers	2 core
Drain wire	0.4mm tinned copper
Wrapping	Al-foil
Jacket	red (flame retardant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



### Interface Module AW-D401

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

### End of line Module AW-D402

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



### Fire Linear Heat Cable

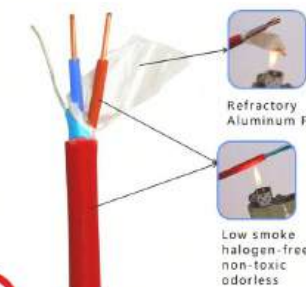
- AW-D4068(68°C)
- AW-D4088(88°C)
- AW-D4105(105°C)
- AW-D4138(138°C)
- AW-D4180(68/88/105/138/180°C)

# FIRE PROOF CABLE

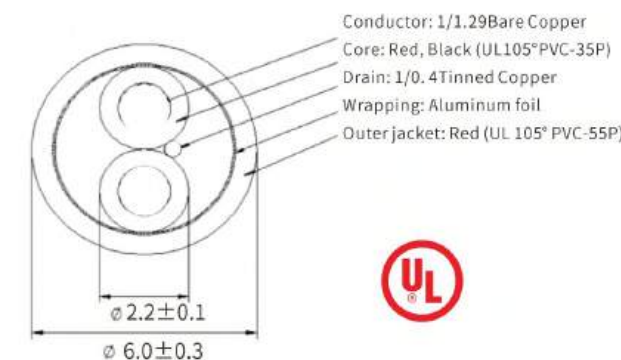
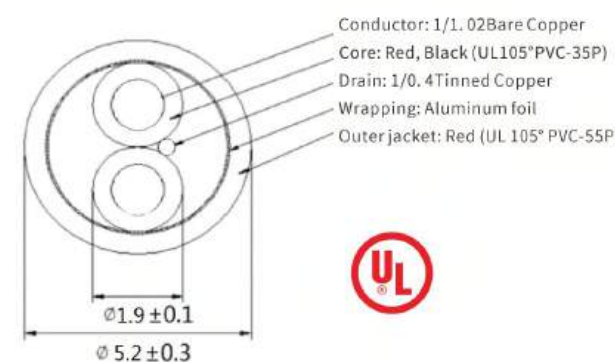


## Fire Proof Cable

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)	21.9
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	5.4±0.3 mm
Jacket thickness	0.58 mm
Min jacket thickness	0.46 mm
Rated temperature	105°C
Rated voltage	300V
Flame 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)	13.7
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	6.2±0.3 mm
Jacket thickness	0.64 mm
Min jacket thickness	0.52 mm
Rated temperature	105°C
Rated voltage	300V
Flame retardant rating	Vw-1
Application	fire alarm systems

# FIRE TELEPHONE SYSTEM



## Addressable Fire Telephone Panel AW-FT700(Max Telephone 99PCS)

Features	
Model	AW-FT700
Main Voltage	AC110-230V
Frequency Response	300-3400Hz
Maximum Line Distance	1500m
Transmission Loss	≤5dB
Maximum Fire Telephone Extension Loop Resistance	≤100Ω
Maximum Recording Duration	≤5 h
Relay Output Capacity	1A@30VDC (Conventional)
Environmental	Temperature range: -10 to 50°C (14~122°F) Humidity: ≤95% RH, non-condensing
Materials and colors	ABS, white
Size	184.3mm* 143.3mm* 120mm



**Addressable Telephone Jack  
AW-D703**



**Addressable Fire Telephone  
AW-D701**

## 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.



**Telephone Jack  
AW-FTJ101**



**Fire Telephone Wall-mounted  
AW-FHS101**



Only for Fire Safety

# EMERGENCY VOICE EVACUATION SYSTEM



## 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



Emergency Voice Evacuation System

Fire Telephone System



## 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

## Rack 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+2xPagings (200 addresses)+MP3 + Blue tooth+1xSD Card
1x Built-in Speaker+ 2x Audio Output
20x Emergency Input + 1x CAN+ 2x RS485 +1x LAN



**10 Zone Speaker Selector**  
AW-EV603



**16 Zone Speaker Selector**  
AW-EV604

Zone Speaker Selector	AW-EV603	AW-EV604
Support Zones (each selector)	10	16
Maximum quantity can be connected to AW-EVC100 Controller	99	61
Amplifier Input (each selector)	1	Maximum 4
3-wire Speakers	Connectable	Connectable
Connect to AW-EVC100 Controller	RS485	RS485
Isolation & Activation of Each Zone by Button	Yes	Yes
Working Status Indicators	Yes	Yes
Dimension (L x W x D, mm)	485*66*343	485*89*343



**Power Amplifier**  
AW-AP500/1000/1500/2000



**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)



**Ceiling Speaker**  
AW-SP101/2/3/4



**Wall Mounted Speaker**  
AW-SP201/2/3/4



**Horn Speaker**  
AW-SP301/2



**Outdoor Column Speaker**  
AW-SP401/2/3/4/5



**Outdoor Column Speaker**  
AW-SP501/2/3/4

Mode No.	AW-SP101/02	AW-SP201	AW-SP301	AW-SP401	AW-SP501
Power	3-6W	15W	15W	10w	30w
Voltage	70-100V	70-100V	70-100V	70-100V	70-100v
Sensitivity	91±3dB	93dB	105±3dB	96±3dB	92±3dB
Frequency response	100Hz-15KHz/80Hz-18KHz	80-20KHz	325Hz-6.5KHz	160Hz-19khz	110-20KHz
Size	165mm/178mm	175*75*265mm	222*162*232mm	155*105*270mm	160*140*352mm



**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 3.2m [can be extended up to 9.9m (0.9m×11)]
Material	Titanium alloy
Applicable device	50-115mm diameter smoke detector / heat detector / flame detector

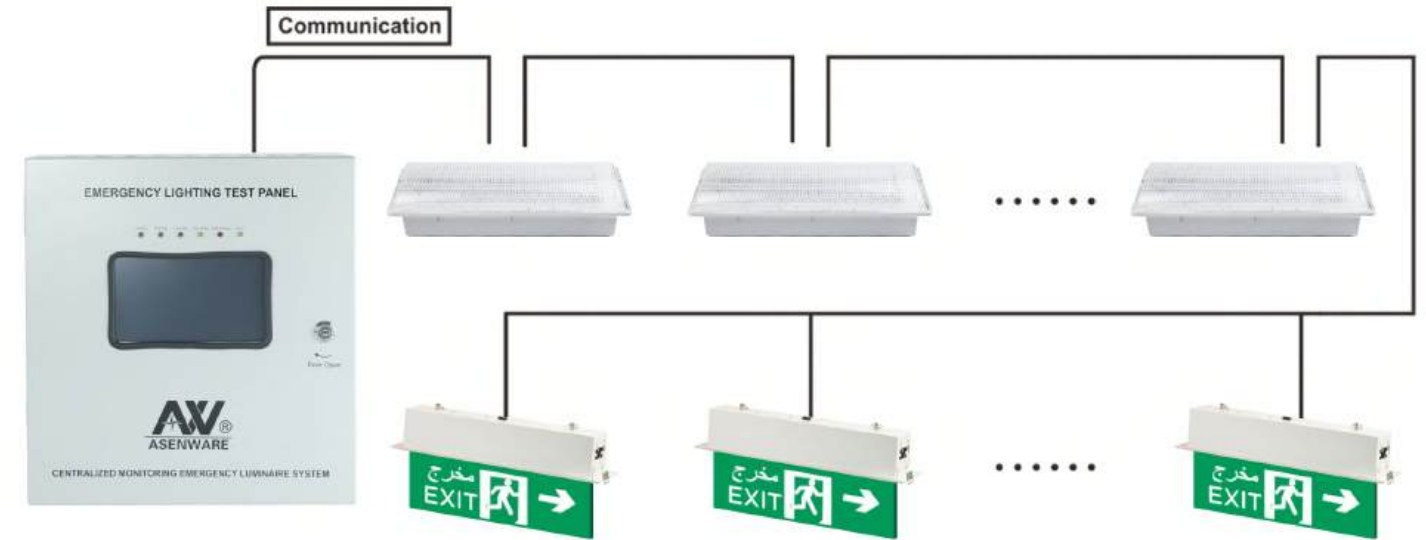
**AW ASENWARE**  
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DEKRA Centralized Monitoring Emergency Luminaire System

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






**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 ≥850nm, ultraviolet ≤280nm and infrared-ultraviolet broadband

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 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>√ Maintenance-free</li> <li>√ LED 16pcs/bar, 1/2/3/5 bar</li> <li>√ Nickel-cadmium or Lead-acid</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>
	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 2825 14PCS</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>
	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>
	Exit Sign TUV Approved	AW-EL301	<ul style="list-style-type: none"> <li>√ 220~240VAC, 50/60Hz</li> <li>√ 3.7V 1200mAh</li> </ul>
	Exit Sign	AW-EL302	<ul style="list-style-type: none"> <li>√ 110V-120VAC or 220VAC 50Hz</li> <li>√ All 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>

# 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

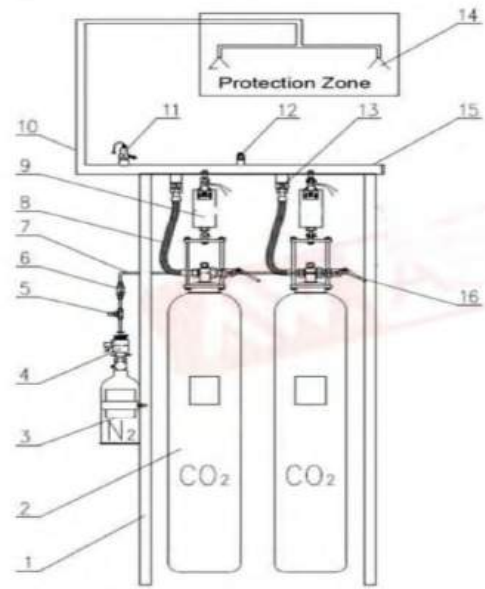
**Flame Simulator AW-D204**



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)

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

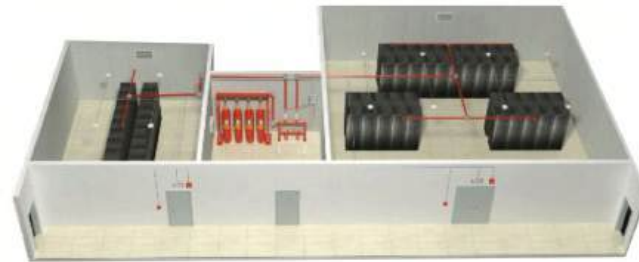
CO<sub>2</sub> Gas Extinguishing System is a kind of intelligent automatic extinguishing system. In accordance with requirements for use in different places for application, the unit independent system and combined distribution system can be constituted and the way of total flooding extinguishing can 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



## Kitchen Fire Suppression System

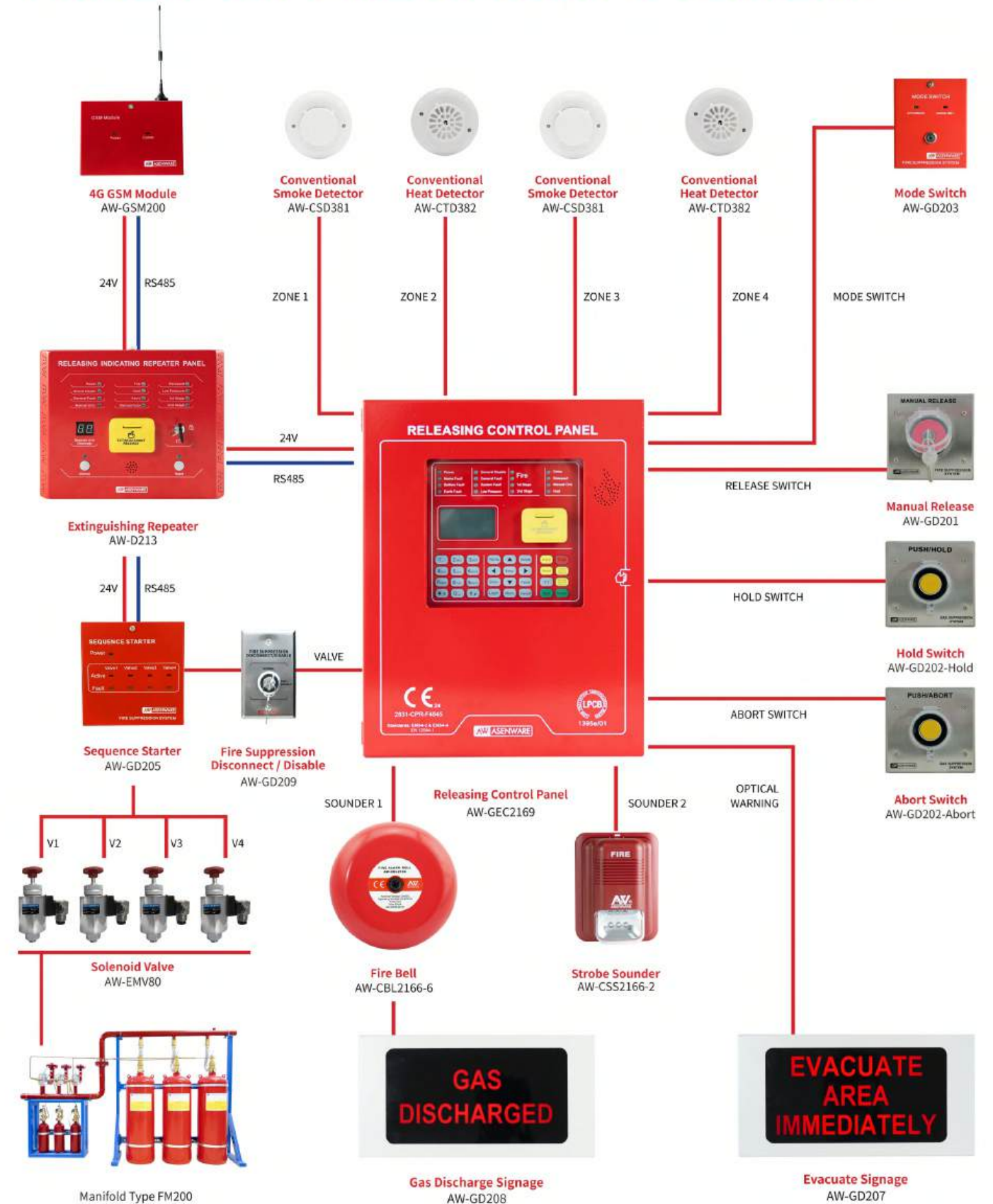
The kitchen fire suppression system, with the special fire extinguishing agent for cooking oil, can realize fire extinguishing, automatic or manual start device to spray fire extinguishing agent, fast fire extinguishing speed, and the gas valve can be automatically closed at the same time.



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# FIRE SUPPRESSION SYSTEM





**Fire Suppression System  
AW-GEC2169**



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



**CO2 Extinguishing System**

### 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**



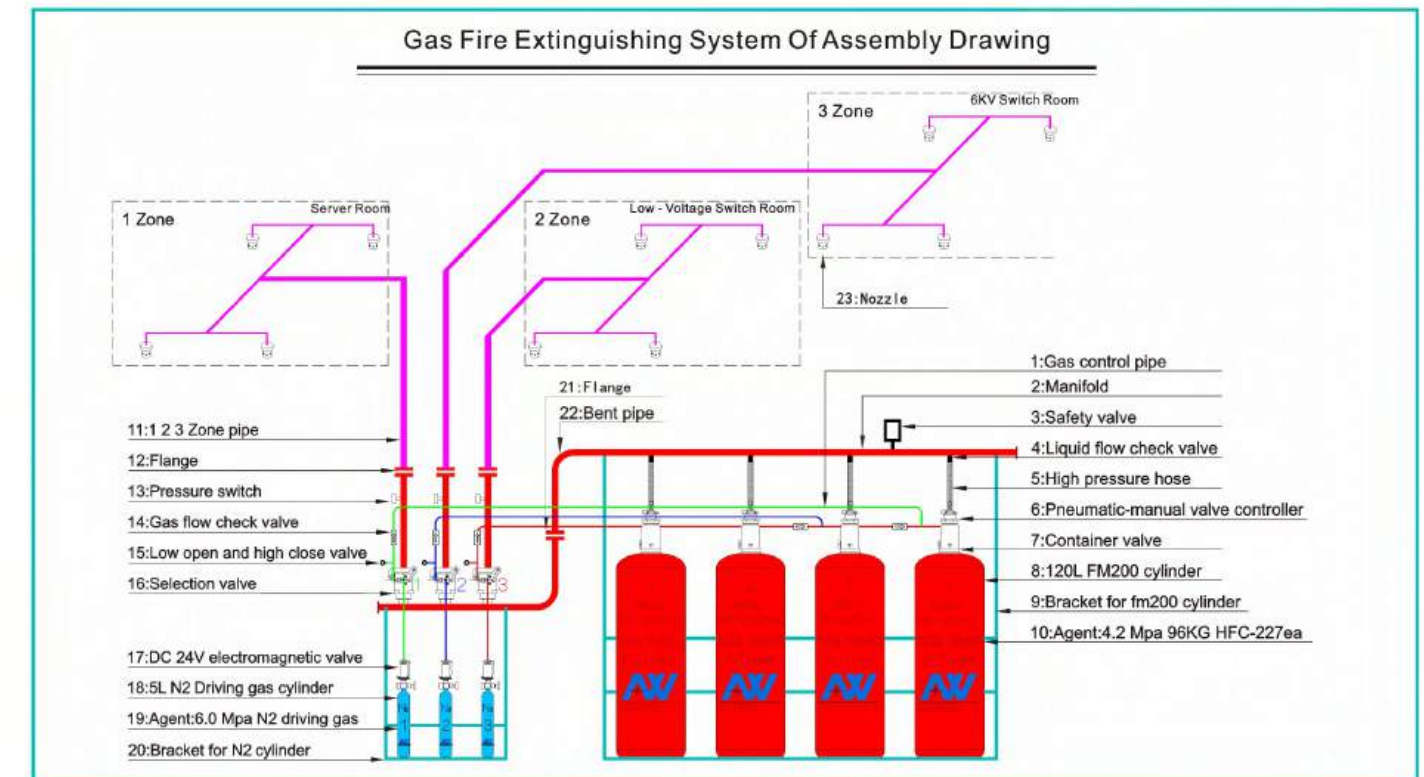
**Manifold Type**

### AW-GEC2169 Releasing Control Panel

AW-GEC2169 Releasing 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 20 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



### Hanging Type Gas Extinguishing System

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

### 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.



**Electric Hanging Type**



**Fixed Temperature Hanging Type**



### 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



**Fire Suppression Disconnect/Disable  
AW-GD209**

The AW-GD209 switch is designed for gas suppression system. It is a maintenance switch to provide a secure and visible disconnect means for servicing GEC2169 Releasing Control Panel (Usually valve terminal). It contains a normal closed switch. When the switch is rotated, the connected wire switches between a closed circuit and an open circuit.

Switch capacity	3A@30VDC
Size(L*W*H)	115mm(L)*70mm(W)*65mm(D)
Weight	About 320g



**Releasing Indicating Repeater Panel  
AW-D213**

AW-D213 repeater panel is used to view the various control states of the AW-GEC2169 Extinguisher Control Panel, and control the extinguishant release button, reset button, and silence button.

Work Voltage	10~28VDC
Communication	RS485
Work Temperature	-10~50°C
Work Humidity	≤95%RH
Size (L*W*H)	220*179*72.3mm



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



### 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 the 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	21.44	25.4	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	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

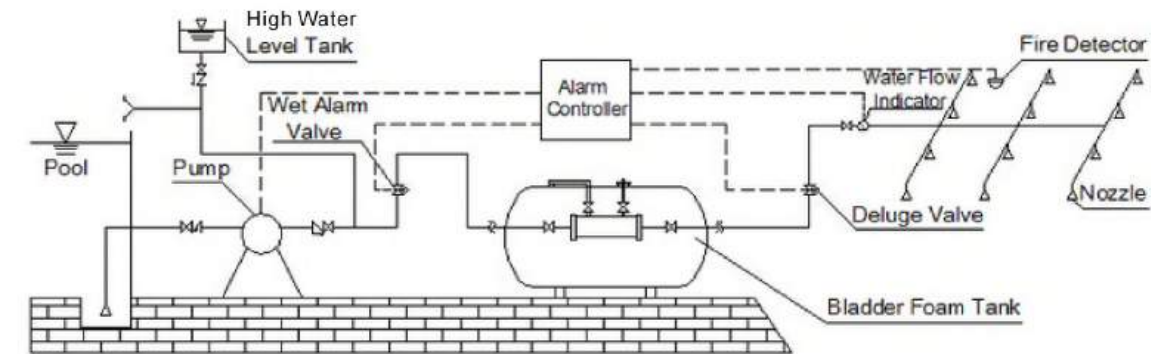
### Foam Fire Extinguishing System

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.

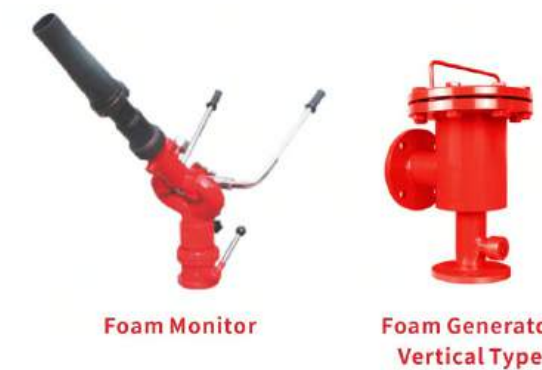


Horizontal type

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%



Manual Fire hose reel

Swing Arm Fire hose reel

### Fire hose reel



Specification
Material: Rubber
Length: 30m
Size: DN19 (3/4") & DN25 (1") & DN33 (1 1/4")
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

#### 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



Hose Nozzle



Hose Coupling



Fire Hose