

CSD-H

Cabinet Smoke Detector

AVA PREVENT

World First Innovation Addressable Aspirating Smoke Detector

Specially developed Very Early Warning Aspirating Smoke Detector for Cabinet Fire / Smoke Detection



- Mini 3 in 1 Display
- Smoke Detection Range 0.02~25%/m
- CO Detection Range : 0~1,000 ppm
- Built-in Temperature & Humidity sensors
- 8 x pre-set Fire 1 levels
- 2 x Event Thresholds for Temp., Humidity and CO(if used)
- 4 Alarm Level (Alert, Action, Fire 1, Fire 2)
- 2 Relay Outputs
- Remote Display Unit RDU as optional solution
- RS485 Network
- Support Modbus RTU Open Protocol
- Listings / Approvals



AVA developed the world first CSD early warning aspirating smoke detector for cabinet fire detection. CSD with its miniature design that can be installed inside the single cabinet to perform the air sampling smoke detection. CSD had high sensitivity (highest can reach Fire 1 of 0.8% obsc/m), which not only achieve the purpose of extremely early warning smoke detection, but it can also effectively locate which cabinet has fire / smoke abnormalities. It can be proudly state it is the perfect solution for cabinet fire detection

CSD-H sensitivity can be select from Pre-Set configuration with the highest sensitivity is 0.8% obsc/m at Fire 1 level.

CSD-H consists of 1 sampling inlet port with 8mm tube connection, 1 aspirator with flow sensor, 1 high sensitivity smoke detector.



CSD-H equipped with front display that come with numerical display for real time smoke and air flow value.

The display also allow user to perform function of "Reset", "Isolate / De-Isolate", "Silence" and "Test"

Order Information:

Part No.	Description
CSD-H10	Cabinet Smoke Detector
CSD-H01	Cabinet Carbon Monoxide Detector
CSD-H11	Cabinet Smoke & Carbon Monoxide Detector
CSD-H10P	Cabinet Smoke Detector <i>Without Aspirator</i>
CSD-H01P	Cabinet Carbon Monoxide Detector <i>Without Aspirator</i>
CSD-H11P	Cabinet Smoke & Carbon Monoxide Detector <i>Without Aspirator</i>

Specification

Smoke Detection Principle

- Light Scattering Mass Detection

Smoke Detection Range

- 0.02~25%/m

CO Detection Range

- 0~1,000 ppm

Temp. Detection Range

- 0~100 °C

Humidity Detection Range

- 0~100% RH

Coverage, Length and sampling hole

- Coverage : 100m²
- Pipe /Tube Length: 30m
- Sampling holes: Up to 4

Alarm Levels and Time Delay

- Alert (0~60 sec.)
- Action (0~60 sec.)
- Fire-1 (0~60 sec.)
- Fire-2 (0~60 sec.)

Environment Smoke Learning

- 5 Background Average Mode
- 24hours, 365days Non-Stop Smoke Background Level Learning

Flow Monitoring

- Pipe Flow Normalize to 100%
- Flow High and Flow Low Fault

Aspirator Speed

- 10 Speed Adjustable

Relay Output

- 2 Relays (Configurable)
- Rating: 2A@30 VDC

General Purpose Inputs

- 1xGPIOs (Configurable)

Operating Conditions

- Ambient Temperature: 0~40 °C
- Sampling Air Temperature: -20~60 °C
- Humidity: 10~95% RH Non-Condensing

Power

- 10~28 Vdc
- 170mA

Dimension(WHD)

- 227mm x 47.8mm x 100mm

IP rating : IP41

Weight

- Net Weight : 0.725kg

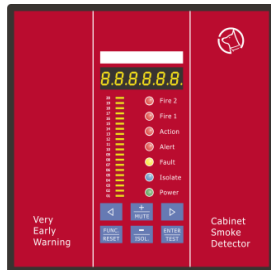
Optional Accessories

RDU - Remote Display Unit

IO Board - Input/Output Expansion Board

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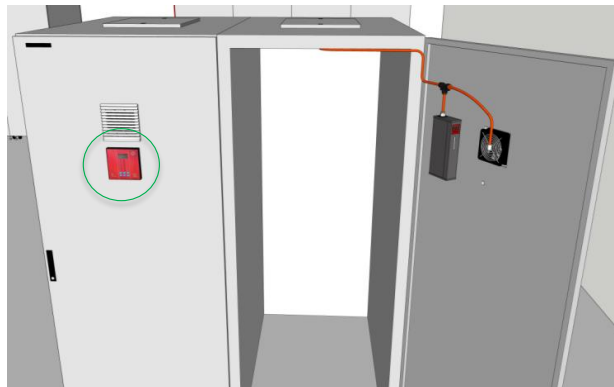
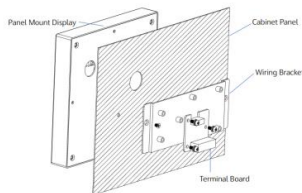
Remote Display Unit (RDU) serves as a Remote Display and Programmer unit for each Cabinet Smoke Detector.



- Display Real Time Smoke Value, Air Flow Value and Active Event
- 20 Segment Smoke bargraph
- 4 Alarm Level (Alert, Action, Fire 1, Fire 2)
- Control Function "Reset", Isolate", "Silence", "Test"
- Programmer Function
- Notification Buzzer and Alarm Flasher
- Can install up to 1000m away from CSD-H

RDU-PMC

Remote Display Unit (Panel Mount)



RDU-RMCH

8 x RDU (19" Rack Mount)

IO Board provide additional Input and Output to the CSD.



RDU-IO Expansion I/O Board



Expansion-IO Expansion I/O Board

Order Information:

Part No.	Description
RDU-PMC	Remote Display Unit (Panel Mount)
RDU-RMCH	8 x Remote Display Unit (19" Rack Mount)
RDU-IO	Remote Display Unit expansion I/O Board with 3 Relays and 1 GPI (Connection to RDU)
Expansion-IO	Expansion I/O Board with 4 Relays and 1 GPI (Connection via RS-485 Aux)

Specification

Remote Display Unit (RDU)

- Numerical Display
 - Real Time Smoke Value (%obsc/m)
 - Real Time Air Flow Value
 - Network Address
 - Active Event Code with Time

Smoke Indication

- 20 Segment Smoke Bargraph
- Alert LED
- Action LED
- Fire 1 LED
- Fire 2 LED

Others Indication

- Power on LED
- Fault LED
- Isolate LED

Control Button

- Reset
- Isolate / De-Isolate
- Silence / Mute
- Test

Notification

- Buzzer
- Alarm Flasher

Operating Conditions

- Ambient Temperature: 0~40 °C
- Humidity: 10~95% RH Non Condensing

IO Board (Optional)

RDU-IO Expansion Board

- 24VDC
- RDU Connection
- IO Module come with 3 Relays and 1 GPI (Configurable)
- Dimension : L 48.0 x W 48.0mm
- Expansion IO Board (RS-485 Aux Connection)
- 24VDC
- RS-485 Aux Connection
- IO Module come with 4 Relays and 1 GPI (Configurable)
- Dimension : L 78.0 x W 50.5mm

Operating Conditions

- Ambient Temperature: 0~40 °C
- Humidity: 10~95% RH Non Condensing

Specifications are subject to change without prior notice