

#### **Secure Cabinet Protection**

#### **Next-Generation Active Smoke Detection for Cabinet Monitoring**



- Mini 3 in 1 Display
- Smoke Detection Range: 0.02~25%/m
- CO Detection Range: 0~1000ppm
- **Built-in Temperature and Humidity Sensors**
- 8 x Pre-Set Fire 1 Levels
- 2 x Event Thresholds for Temp., Humidity, and CO (If Used)
- 4 Alarm Levels (Alert, Action, Fire 1, Fire 2)
- 2 Relay Outputs
- Remote Display Unit (RDU)
- RS485 Network
- **Support Modbus RTU Open Protocol**
- Listings / Approvals

## **Actuation with Cylinders**

FireSci has innovated its Active Cabinet Smoke Detector (ACSD) tailored for integration with FireSci Cylinder Systems. The ACSD boasts a compact design, enabling seamless installation within individual cabinets to execute air sampling smoke detection. Renowned for its heightened sensitivity (with the utmost sensitivity registering fire 1 at 0.8% obsc/m), it not only ensures remarkably early warning smoke detection but also proficiently discerns cabinets exhibiting fire/smoke irregularities.

The ACSD-H1 sensitivity can be selected from pre-configured settings with the highest sensitivity being 0.8% obsc/m at Fire 1 level.

The ACSD-H1 consists of 1 sampling inlet port with an 8mm tube connection, 1 aspirator with a flow sensor, and 1 high sensitivity smoke detector.



The ACSD-H1 comes equipped with a front numerical display for real time smoke and air flow value.

The display allows users to perform function commands such as "Reset", "Isolate", "De-Isolate", "Silence", and "Test".

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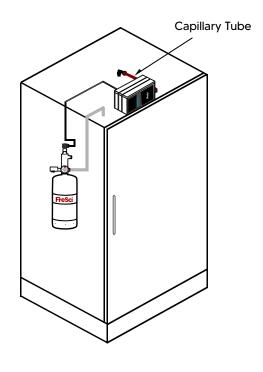


### **Order Information**

PART NO.	DESCRIPTION
ACSD-H1	CABINET SMOKE DETECTOR
ACSD-H2	CABINET CARBON MONOXIDE DETECTOR
ACSD-H12	CABINET SMOKE & CARBON MONOXIDE DETECTOR
ACSD-H1F	CABINET SMOKE DETECTOR WITHOUT ASPIRATOR
ACSD-H2F	CABINET CARBON MONOXIDE DETECTOR WITHOUT ASPIRATOR
ACSD-H12F	CABINET SMOKE & CARBON MONOXIDE DETECTOR WITHOUT ASPIRATOR

# **Specifications**

SMOKE DETECTION PRINCIPLE	Light Scattering Mass Detection
SMOKE DETECTION RANGE	0.02~25%/m
CO DETECTION RANGE	0~1000ppm
TEMP. DETECTION RANGE	0~100°C
HUMIDITY DETECTION RANGE	0~100%RH
	Coverage: 100m <sup>2</sup>
COVERAGE, LENGTH, AND SAMPLING HOLE	Pipe/Tube Length: 30m
	Sampling Holes: Up to 4
	Alert (0~60sec.)
ALARM LEVELS AND TIME DELAY	Action (0~60sec.)
ALARM LEVELS AND TIME DELAY	Fire 1 (0~60sec.)
	Fire 2 (0~60sec.)
ENVIRONMENT SMOKE LEARNING	5 Background Average Modes
ENVIRONMENT SMORE LEARNING	24/7 Non-Stop Smoke Background Level Learning
FLOW MONITORING	Pipe Flow Normalize to 100%
PEOW MICHITORING	Flow High and Flow Low Fault
ASPIRATOR SPEED	10 Speed Adjustable
RELAY OUTPUT	2 Relays (Configurable)
RELAT OUTFUT	Rating: 2A@30 VDC
GENERAL PURPOSE INPUTS	1xGPls (Configurable)
	Ambient Temperature: 0~40°C
OPERATING CONDITIONS	Sampling Air Temperature: 20~60°C
	Humidity: 10~95% RH Non-Condensing
POWER	10~28 VDC
- Circli	170mA
	Length: 227mm (8.94 in)
DIMENSIONS	Width: 47.8mm (1.85 in)
	Height: 100mm (3.94 in)
WEIGHT	Net Weight: 0.725kg (1.6lb)



Specifications may be subject to change without prior notice\*

