

# 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".



# 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, LENGTH, AND SAMPLING HOLE	Coverage: 100m <sup>2</sup>
	Pipe/Tube Length: 30m
	Sampling Holes: Up to 4
ALARM LEVELS AND TIME DELAY	Alert (0~60sec.)
	Action (0~60sec.)
	Fire 1 (0~60sec.)
	Fire 2 (0~60sec.)
ENVIRONMENT SMOKE LEARNING	5 Background Average Modes
	24/7 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	1xGPIs (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
DIMENSIONS	Length: 227mm (8.94 in)
	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\*

