

Product overview

The Sensis Indigo CSD-H is an advanced early warning aspirating smoke detector designed specifically for cabinet fire detection. With its compact design, Indigo CSD can be installed inside individual cabinets to perform precise air sampling smoke detection. Its high sensitivity – reaching Fire 1 levels at 0.8% obscuration per meter – enables extremely early warning of smoke presence and helps accurately identify which cabinet is affected. Indigo CSD offers a reliable and efficient solution for cabinet fire detection.

The Sensis Indigo CSD-H consists of one sampling inlet port with an 8mm tube connection, a single aspirator with flow sensor and a high-sensitive smoke detector. The sensitivity level can be selected from pre-set configuration, up to 0.8% obs/m. The Sensis Indigo CSD-H also comes equipped with a mini 3-in-1 numerical display that provides real-time smoke and air flow values. The display also allows users to perform additional input functions such as reset, isolate, silence and test.

Applications

Data centres, Electrical cabinets, High-risk equipment, Industrial control panels

Features

- **Very early warning smoke detection** – Alarm sensitive range of 0.02~25% obs/m, covering a maximum area of up to 100 m².
- **Mini 3-in-1 display** – Mini 3-in-1 display provides real-time smoke level and air flow values with additional input functions (Reset, Isolate, Silence and Test).
- **Built-in temperature and humidity sensors** – Provides additional environmental monitoring



and enhanced detection accuracy in cabinets and small spaces.

- **Four alarm levels** – Alert, Action, Fire 1, Fire 2.
- **Remote Display Unit** – The Indigo CSD-H can be connected to a Remote Display Unit (RDU), ideal for challenging environments where the CSD-H units are not easily accessible.
- **Smart Smoke Level (SSL)** – Operates 24/7 to continuously monitor the background environmental value and establish a reference point for smoke concentration and alarm threshold to improve reliability and reduce false alarms.
- **Supports Modbus RTU open protocol** – connect up to 250 devices on a network.
- **Additional features** – 8 x preset Fire 1 levels, 2 x event thresholds for temperature, humidity and CO (CSD-H11 only), 2 x relay outputs, and RS485 connectivity.

Technical specification

Performance		Electrical specification	
Smoke detection principle	Light scattering mass detection	Relay output	2 relays (configurable)
Smoke detection range	0.02~25% obs/m	Rating	2 A @ 30 Vdc
CO detection range	0~1,000 ppm	General purpose inputs	1 x GPIs (configurable)
Temp. detection range	0~100°C	Power	10~28 Vdc 170 mA
Humidity detection range	0~100% RH	Operating conditions	
Area coverage	100 m ²	Ambient temp.	0~40°C (0~104°F)
Pipe/tube length	30 m	Sampling air temp.	-20~60°C (-4~140°F)
Sampling holes	Up to 4	Humidity	10~95% RH non-condensing
Alarm levels and time delay		Mechanical specification	
Alert	(0~60 seconds)	Dimensions	100(h) x 227.4(w) x 47.8(d) mm 4"(h) x 9"(w) x 1¾"(d)
Action	(0~60 seconds)	IP rating	IP41
Fire-1	(0~60 seconds)	Weight	0.725 kg (1½ lb)
Fire-2	(0~60 seconds)		
Environment smoke learning	<ul style="list-style-type: none"> • 5 background average mode • 24 hours, 365 days non-stop smoke background level learning 		
Flow monitoring	<ul style="list-style-type: none"> • Pipe flow normalize to 100% • Flow high and flow low fault 		
Aspirator speed	10 speed adjustable		

Approvals

EN54-20 approved.

Part numbers

Part number	Description
116-4010-100	Sensis Indigo H10 (single pipe, Fire&Fault only)
116-4011-100	Sensis Indigo H11, CO sensor (single pipe, Fire&Fault only)

Accessories

Part number	Description
116-4210-000	Sensis RDU-PMC for Indigo series (remote display)
116-4800-000	Sensis Network Interface Module (NIM-1200)
116-4800-001	Sensis Network Control Panel (NCP-1215) with display for floor plans
116-4800-002	Sensis In-Line Filter 25 mm
116-4800-003	RS485 to USB Converter for programming and commissioning

Dimensions & mounting

