HOCHIKI®

World Class Leaders in Fire Detection Since 1918
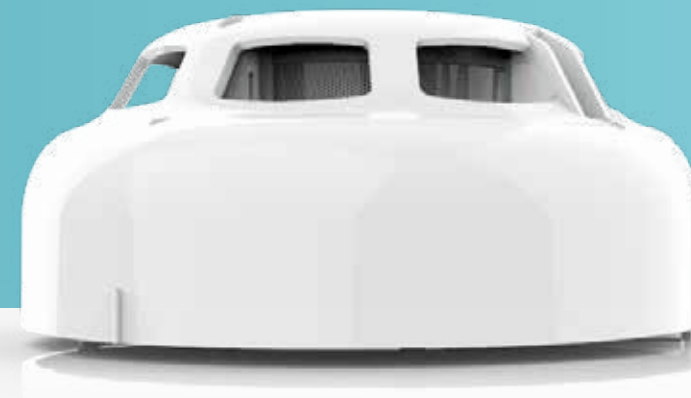
100 Years of Innovation

Introducing the ACD-EN, the most sophisticated multi-sensor released to market to date. This revolutionary product offers a staggering 24 EN approved modes of operation, including combinations of smoke detection, fixed temperature heat detection, rate of rise heat detection, CO detection and COHb detection; making it ideal for a variety of applications. The installer has the ability to select a day mode and a night mode; increasing flexibility and ensuring reliability.

False Alarm Reduction

The ACD-EN is also enhanced for false alarm reduction. In modes featuring the Reduced False Alarm aspect (+RFA), the sensor will automatically adjust its sensitivity based on its surroundings, over time. The ACD-EN is installed with a default time delay. If the environment is clean with no smoke detected for a period of time, this time delay is reduced. If the environment continues to be clean, the time delay is reduced again. However, if transient smoke is detected, the time delay is increased. Any changes in CO and/or temperature will also automatically adjust the sensitivity levels up. We call this ground-breaking algorithm 'Suitable Moving Average Time' (SMART).

ESP Protocol

Furthermore, the ACD-EN operates on Hochiki's world renowned, robust and reliable, ESP open protocol; giving specifiers, installers and end users an open choice on system design, installation and maintenance; and therefore complete control over costs.

Approvals

The quality and performance of the ACD-EN has been approved by LPCB in accordance to EN54 Part 5, Part 7, Part 26, Part 29, Part 30 and Part 31; giving you total peace of mind.

COHb Detection

Traditionally, CO detection is integrated into a multi-sensor to assist with the rapid detection of smouldering fires; however, the ACD-EN also features a highly sophisticated algorithm for COHb detection.

Toxic poisoning can be suffered as the result of sudden high exposure to CO, or pro-longed exposure over time; the algorithm built into the ACD-EN therefore monitors for both criteria and will go into alarm if either scenario is met.

Global Markets

Hochiki also offer a UL approved variant, the ACD-V. This version has 16 UL approved operational modes and is fully compatible with today's enhanced FireNET Plus Control Panels and Loop Explorer II Software. Further information is available at www.hochikieurope.com/acd
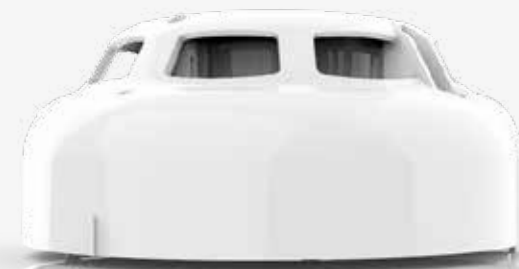
Company Overview

Established in Japan in 1918, Hochiki is an independent, multi-national, publicly listed company with over 1700 employees across the globe. One of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions, Hochiki has acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's facilities in Japan, the United States of America and Europe design and manufacture products and provide technical support suited to local standards and customer requirements. Total commitment to meeting the needs of individual national markets has reinforced the company's global reputation, resulting in Hochiki products being installed in many prestigious sites and in over 80 countries worldwide.

STATISTICS TAKEN FROM THE HOCHIKI CUSTOMER SERVICE SURVEY

91%

Respondents rated product quality as either 'very good' or 'excellent'

92%

Customers stated our market reputation is 'very good' or 'excellent'

88%

**Customers are most likely to recommend our products**

Mode Selector Tool

A wide range of modes have been approved for use by LPCB. Each mode utilises different fire detection technologies in combination or individually. This allows the installer to "fine-tune" the ACD for the environment in which it is being fitted, where they can select both a day mode and a night mode.

9A	Smoke/Heat/CO combine (Default Mode)		8D	Smoke, CO, Heat (FT), Heat (RoR), COHb
9B	CO/Heat combine, Heat (RoR)		8E	Smoke/Heat combine, COHb (RFA function)
80	Smoke/Heat combine (RFA function)		8F	Smoke, COHb (RFA function)
81	Smoke/Heat combine		93	Heat (FT), Heat (RoR), COHb (Fixed Level 1 - Class A1) +COHb
82	Smoke (RFA function)		94	Heat (FT), Heat (RoR), COHb (Fixed Level 2 - Class A1R) +COHb
83	Smoke		95	Heat (FT), COHb (Fixed Level 3 - Class A1S) +COHb
87	Heat (FT) Heat (RoR) (Fixed Level 1 - Class A1)		96	Heat (FT), Heat (RoR), COHb (Fixed Level 4 - Class C) +COHb
88	Heat (FT) Heat (RoR) (Fixed Level 2 - Class A1R)		97	Heat (FT), Heat (RoR), COHb (Fixed Level 5 - Class CR) +COHb
89	Heat (FT) (Fixed Level 3 - Class A1S)		98	Heat (FT), COHb (Fixed Level 6 - Class CS) +COHb
8A	Heat (FT) Heat (RoR) (Fixed Level 4 - Class C)		99	Smoke/Heat/CO combine, Smoke, CO/Heat combine, Heat (FT), Heat (RoR), COHb (RFA function)
8B	Heat (FT) Heat (RoR) (Fixed Level 5 - Class CR)		9C	COHb
8C	Heat (FT) (Fixed Level 6 - Class CS)		9D	CO

FT = Fixed Temperature | RoR = Rate of Rise | COHb = Carboxyhaemoglobin

Use our online mode selector tool at www.hochikieurope.com/acd, or alternatively request a hard copy of the tool to be sent to you FREE of charge.
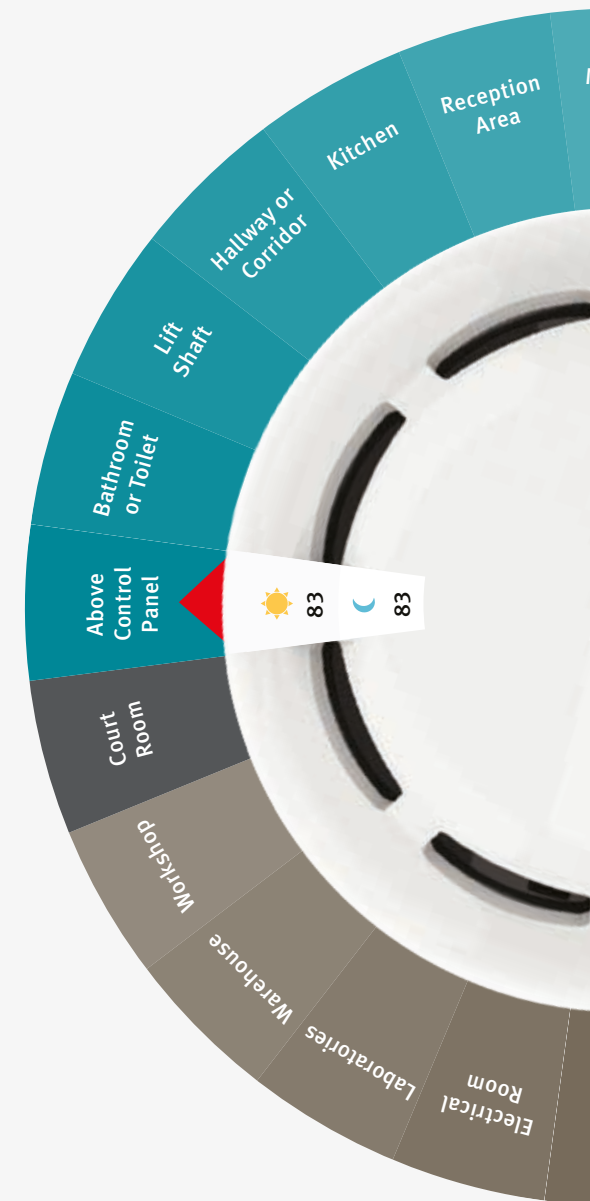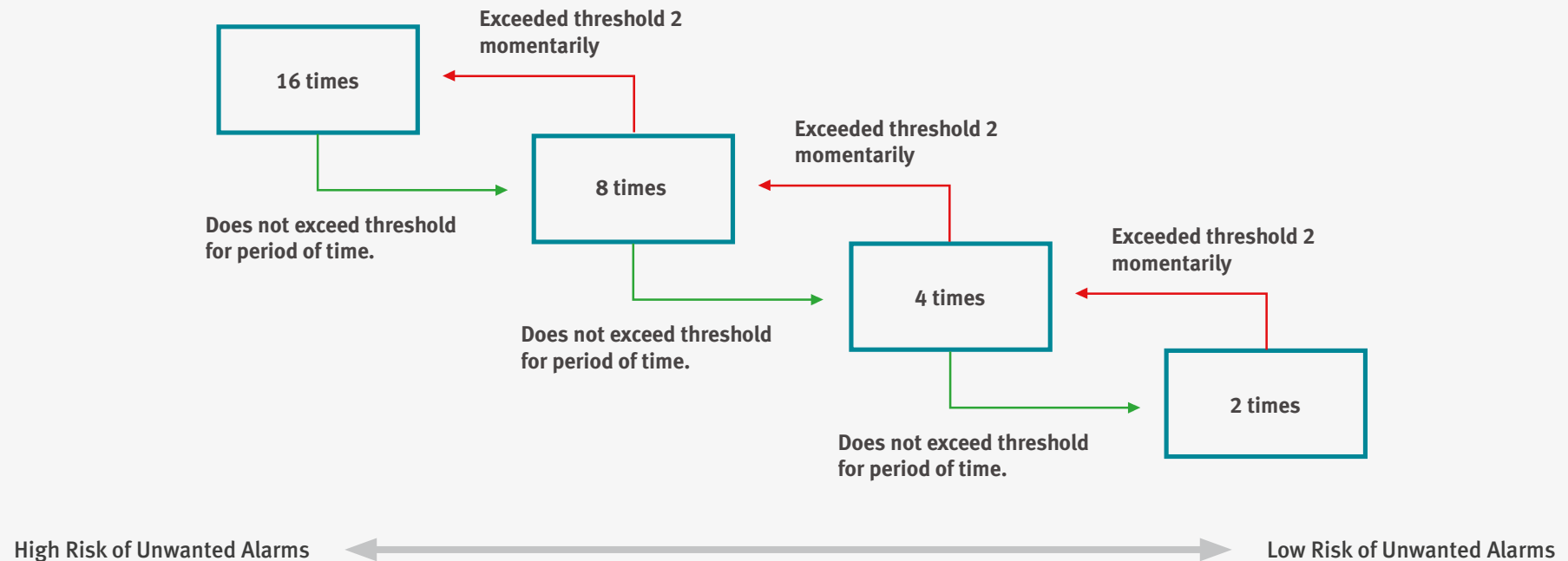
Behind the Technology

The ACD-EN is installed with a default time delay. If the environment is clean with no smoke detected for a period of time, this time delay is reduced. If the environment continues to be clean, the time delay is reduced again. However, if transient smoke is detected, the time delay is increased. Any changes in CO and/or temperature will also automatically adjust the sensitivity levels up. We call this ground-breaking algorithm 'Suitable Moving Average Time' (SMART).

False Alarm Reduction

The ACD-EN has a software enhancement called +RFA, specifically designed to Reduce False Alarms. The ACD-EN is installed with a default time delay where the sensor will automatically adjust its sensitivity based on its surroundings.

Smart Moving Average Time

16 times

Exceeded threshold 2 momentarily

Does not exceed threshold for period of time.

8 times

Exceeded threshold 2 momentarily

Does not exceed threshold for period of time.

4 times

Exceeded threshold 2 momentarily

Does not exceed threshold for period of time.

2 times

High Risk of Unwanted Alarms ⟵——————————⟶ Low Risk of Unwanted Alarms

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Your Safety, Our Technology