APPLICATION NOTE 152

ACD Multi-Sensor with CO - Mode Selection Guide

Your Safety, Our Technology

ESPintelligent

Description

Introducing the ACD Multi-Sensor with CO. The most sophisticated multi-sensor Hochiki has brought to market to date.

This revolutionary product offers a staggering 24 EN54 approved modes of operation, including combinations of smoke detection, fixed temperature heat detection, rate of rise heat detection, CO detection and COHb toxicity recognition; making it ideal for a broad variety of applications.

The ACD is also enhanced for false alarm reduction. In the modes featuring the Reduced False Alarm function (+RFA), the sensor will automatically adjust the sensitivity of the optical sensing element over time, learning from its surrounding environment from the moment of installation.

In this way the sensor remains as sensitive as it needs to be, based on its environment.

Recommended Modes Chart

	Day	Night
Hotel Room	8D	8D
Hospital Common Areas	99	99
Care Homes	99	8D
Church or Cathedral	8D	99
Boiler Room	89	89
Data Centre	80	80
Electrical Room	80	81
Laboratories	8D	8D
Warehouse	89	89
Workshop	80	81
Court Room	8D	99
Above Control Panel	83	83
Bathroom or Toilet	87	80
Lift Shaft	81	81
Hallway or Corridor	82	83
Kitchen	89	80
Reception Area	82	82
Meeting Room	8D	8D
Office	9A	9A
Stairwell	82	82
Storage Room	80	81
Classroom	8D	8D
College or University Building	9A	99
Student Accom*	99	8D

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Mode Selection

All of the ACD's 24 modes of operation have been approved by LPCB to EN54 standards.

Each mode utilises different fire detection technologies either in combination or individually to generate a fire condition. This allows the installer the flexibility to "fine-tune" the ACD for any environment in which it is being fitted.

The table below summarises the modes available and details the detection technologies employed by each mode.

NOTE: "+" denotes the primary detection element(s) making the fire decision.
"/" denotes the detection element is working in unison with the primary element(s).

9A	+S/FT/CO +RFA	8D	+S +FT +RoR +CO +COHb
9B	+CO/RoR	8E	+S/FT +COHb +RFA
80	+S/H +RFA	8F	+S +COHb
81	+S/H	93	+FT +RoR (A1) +COHb
82	+S +RFA	94	+FT +RoR (A1R) +COHb
83	+S	95	+FT (A1S) +COHb
87	+FT +RoR (A1)	96	+FT +RoR (C) +COHb
88	+FT +RoR (A1R)	97	+FT +RoR (CR) +COHb
89	+FT (A1S)	98	+FT (CS) +COHb
8A	+FT +RoR (C)	99	+S/H/CO +S +FT +RoR +CO/COHb
8B	+FT +RoR (CR)	9C	+COHb
8C	+FT (CS)	9D	+CO

S= Smoke | FT = Fixed Temperature | RoR = Rate of Rise | COHb = CO Toxicity Threat | RFA = Reduced False Alarm | H = Heat

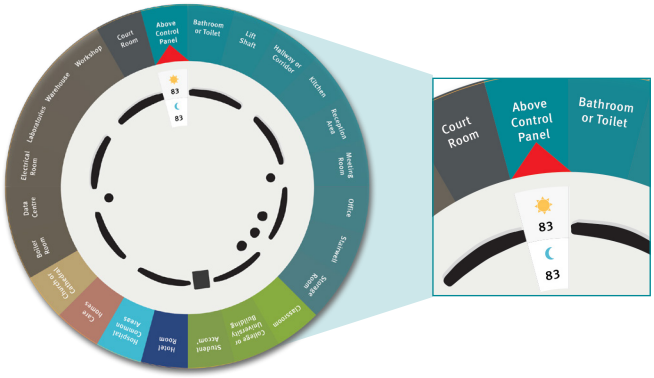
*Dependent on control panel compatibility.

** This document should be used as a guide only. It remains the responsibility of the installer to correctly risk assess the environment and install the correct fire detection equipment.

The Mode Selector Tool

The mode selector tool has been designed to assit in the selection of the best day and night modes for the specific installation environment**.

To receive your free selector tool, contact your Regional Sales Manager or the Hochiki Europe Marketing Department. There is also an online version of the tool available on the ACD page of our web site at www.hochikieurope.com/acd.



For further information visit www.hochikieurope.com/acd

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ISS2
NOV19