



Vanguard V5 Advance Fire Extinguishing Panel provides many flexible choices from basic conventional (non-addressable) panel to advance hard-wire addressable panel / systems.

The basic conventional panels are available from 1 to 136 zones. The design is compact, attractive, user friendly and highly scalable. The panels are built with well proven solid state technology for long term cost effectiveness.

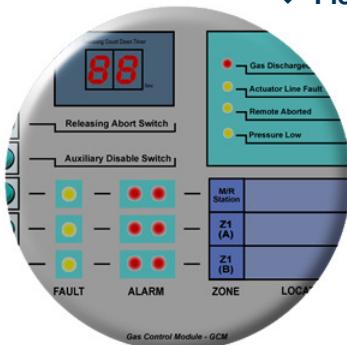
Operation and maintenance of the panel are provided with general frontal indications and colour coded switches. The specific fault indications are mounted behind the front indications.

It is able to work with most water / gas extinguishing system (FM200, Inert gas, CO₂ & water mist etc.) and comes complete with Cross Zone Detection, Voting Logic Circuit (option), two digit countdown display and multiple zones with individual or common firing circuit.

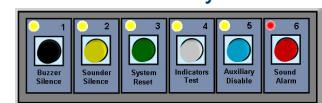
Applications:

Vanguard V5 Advance Fire Extinguishing Panel is suitable for use in data centers, computer room environment, telecommunication exchange facilities, engine / equipment room etc.

Benefits:



- ❖ **Flexibility:** Wide range of auxiliary functions to meet each requirement e.g. AHU shut down, exhaust fan activation, equipment function remote status monitoring etc.
- ❖ **Low maintenance cost :** System can be maintained and serviced by fire servicing contractors
- ❖ **Wide range of detectors :** Works with all approved makes of conventional detectors
- ❖ **Logic network capability :** Network logic circuit for various mode of cylinder gas release with multiple zone detection
- ❖ **Ease of use :** Simple one touch operation, easy to learn and reduces errors



Easy to understand buttons and indicators

- ❖ **Alarm interlocks :** General sounder silencing and system resetting for system with multiple zone panel
- ❖ **Diagnostic facilities :** Informative diagnostic LED indicators for easy identification and rectification of faults
- ❖ **Facilities :** Two digit timer countdown display, remote / local manual release & abort functions, 1st & 2nd alarm auxiliary output etc.
- ❖ **Reliability :** System function are highly supervised and designed with proven solid state detection technology
- ❖ **Local manufacturer support :** System designed and supported locally by highly experienced support team
- ❖ **Compliance :** BS EN 54 Parts 2 & 4 :1998, SS CP-10:2005
- ❖ **Approval :** PSB approved (1 to 136 zones)



Digital countdown timer



Solid State Technology



The **Vanguard V5 Advance Fire Extinguishing Panel** provides many flexible, user friendly options that overcome the limitations found in other fire extinguishing systems. Its **Performance, Reliability, Versatility and Unique Features** greatly improve operational efficiency and productivity.

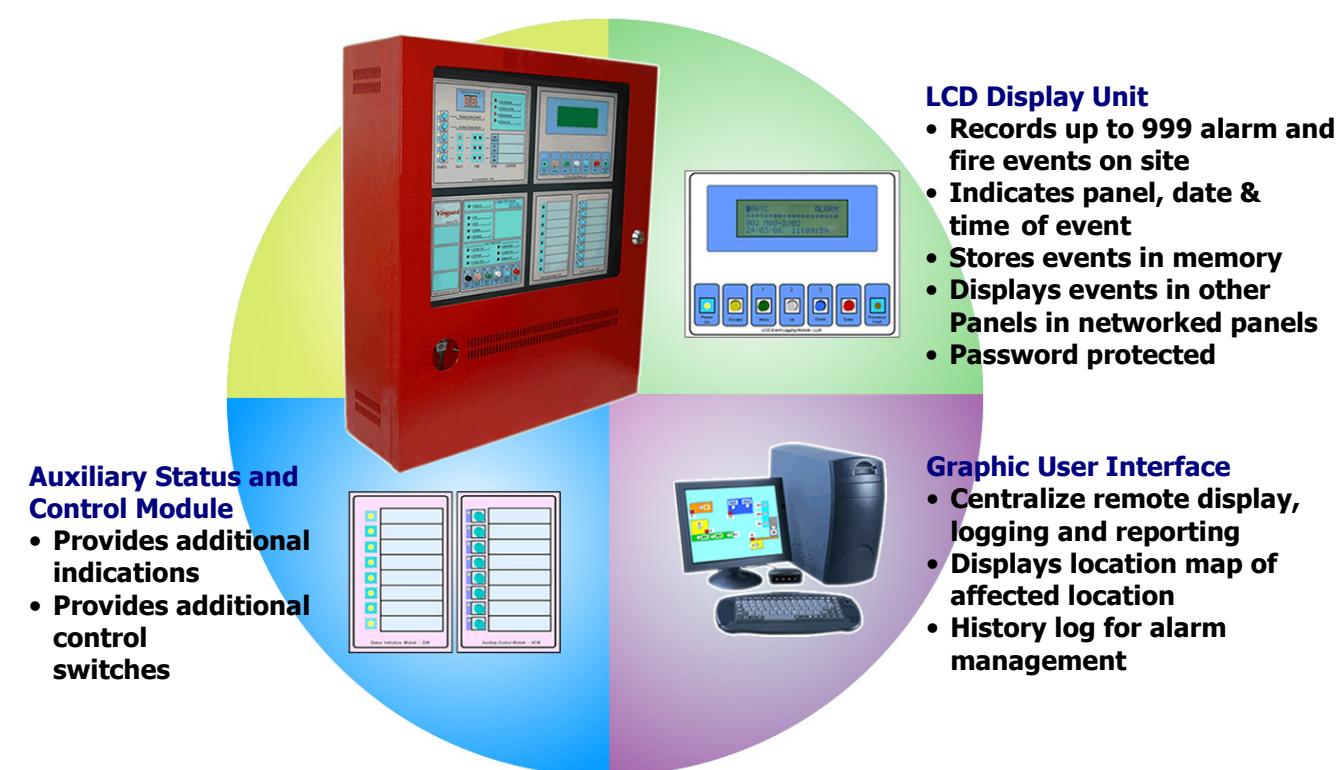
Various upgrade options are available to enhance the fire extinguishing panel such as:

Auxiliary Status and Control Module provides addition indicators and control switches to be added to the panel for easy identification and control.

The **LCD Display Unit** automatically records 1st and 2nd Detection, Manual Release and System Discharge event of each zone with date and time stamp, eliminating inaccurate or missing records due to human errors. The zone and device address, (if hard-wire addressable option is implemented) can be identified from the Extinguishing Control Panel.

Graphic User Interface guides duty staff to area in alarm in the shortest time possible. The Graphics User Interface also records events with date, time and operator information. The event storage capacity is only limited by the capacity of the hard disk of the PC. Various reports can be generated for post event analysis to help identify the cause and take preventive measures against future disruptions.

Upgrade Options:





PSB Singapore

CERTIFICATE OF CONFORMITY

No. CLS1A 080499 0003 Rev. 01

Initial No. CLS1A 13 04 80499 001

Certificate Holder:

Vanguard Fire Systems Pte Ltd
TradeHub 21
20 Boon Lay Way, #01-171
Singapore 609967
SINGAPORE

Certification Mark:



Product:

Fire Alarm Panels

Brand Name:

Vanguard

Model(s):

(1) V5 (2) V5H

Product Details:

Refer to following page(s)

Standard(s):

BS EN 54-2:1997/A1:2006
BS EN 54-4:1998/A2:2006
SS CP 10:2005 (cl 2.2, 2.3, 2.4 & 2.5)

Country of Origin:

Singapore

Test Report(s):

55S052643/A/GT/YCI, 55S052643/B/GT/YCI,
55S052643/EMC/01, 7191028820-EEC12/01-CKH,
7191028820-EEC12/02-CKH, 7191028820-EEC12/03,
7191056280-EEC13/TDS, 7191207500-EEC19/YKF.

Valid until:

2023-04-27

Products listed under Class 1A must have TÜV SÜD PSB PLS mark as shown above affixed/printed on them. Failure to comply with this requirement may result in revocation of this certificate.

Page 1 of 2

Issued on: 2019-07-19

Vice-President (Certification Department)
TÜV SÜD PSB

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CERTIFICATE OF CONFORMITY

No. CLS1A 080499 0003 Rev. 01

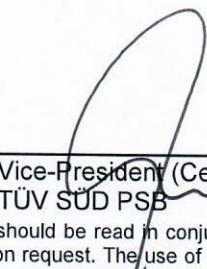
Initial No. CLS1A 13 04 80499 001

Product Details:

V5	V5H
Conventional 1 to 136 Zones of Fire Alarm Panel.	Conventional 1 to 88 Zones of Fire Alarm Panel with additional brackets to secure the standby batteries.

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CDXconventional SOC-E3N

Conventional Photoelectric Smoke Detector

Features

- ▶ Removable, High Performance chamber
- ▶ Automatic Sensitivity Window Verification (ASWV) – Drift Compensation Technology
- ▶ Remote Indicator output
- ▶ Wide voltage range (9.5 ~ 30 V dc)
- ▶ Low profile design with one piece outer cover
- ▶ Single fire LED - 360° viewing
- ▶ Range of mounting bases
- ▶ Approved by LPCB



Description

The SOC-E3N is a Photoelectric Smoke Detector, which is fully compatible with the majority of existing Conventional systems. The SOC-E3N incorporates Hochiki's unique High Performance photoelectric smoke chamber removing the need to use Ionisation Detectors in the majority of applications.

'AFVW' Drift Compensation technology is incorporated to ensure the Detector is operating at its optimum sensitivity and therefore reducing potential false alarms. If the contamination limit is exceeded then the integral red LED will flash once every three seconds to give a visual warning. The smoke chamber is easily removed or replaced for cleaning and utilises a unique baffle design which allows smoke to enter the chamber whilst keeping out ambient light.

Listings / Approvals



Specification

Approvals	LPCB EN54: Part 7
Operating Voltage	12V – 30 V dc
Quiescent Current (typ)	35 µA
Maximum Current Alarm	40 mA
Out of Sensitivity Current (Red Flashing LED)	120 µA
Remote Indicator Drive	20 mA (max)
Operating Temperature Range	-10 °C to + 50 °C
Storage Temperature Range	-30 °C to + 60 °C
Maximum Humidity	95%RH - Non Condensing (at 40 °C)
Ingress Protection Rating	IP42
Colour / Case Material	Ivory or White / ABS
Weight (g)	95 (excluding base)
Diameter (mm) / Height (mm)	100 / 45

Specification

Compatible Bases	YBN-R/6 , YBN-R/6SK YBO-R/6R, YBO-R/6RS, YBO-R/6RN, YBO-R/6PA
Base Fixing Centres (mm)	48 ~ 74

Ordering Codes

Product	Part Number
Detector	SOC-E3N SOC-E3N(WHT)
Replacement Chamber	SOC REPLACEMENT CHAMBER

Certificate of Product Approval

Certificate Number: 358c

Issue: 13

Hochiki America Corporation

7051 Village Drive
Suite 100
Buena Park
California 90621
USA



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Smoke Detectors

ALK-E, ALK-E (WHT), ALG-EN, ALG-EN (WHT),
ALG-EN (BLK), SLV-E3, SLV-E3 (WHT), SLR-E3N,
SLR-E3N (WHT), SLR-E3N (BLK), ALN-EN and ALN-EN
(WHT), ALN-E(WHT), SOC-E3N, SOC-E3N(WHT),
SOC-E3(WHT)
(refer to Appendix for details)

Standards

EN 54-7:2000 + A1:2002 + A2:2006

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Signed for LPCB

P Halligan

Verifier

10 October 2016

Date of Issue

07 January 2005

Date of First Issue



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Appendix to Certificate No: 358c

Hochiki America Corporation

Issue: 13

Certified Product	Description	LPCB Ref.No.
ALK-E	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.	358c/03
ALK-E (WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.	358c/03
ALG-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.	358c/04
ALG-EN (WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.	358c/04
ALG-EN (BLK)	Intelligent Analogue Addressable Optical Smoke Detector (Black) (YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity setting and in normal and low power modes.	358c/04
SLV-E3	Conventional Optical Smoke Detector (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/05
SLV-E3 (WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/05
SLR-E3N	Conventional Optical Smoke Detector (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/06

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Issue: 13

Certified Product	Description	LPCB Ref.No.
SLR-E3N (WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/06
SLR-E3N (BLK)	Conventional Optical Smoke Detector (Black) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/06
ALN-EN	Intelligent Analogue Addressable Optical Smoke Detector (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-EN (WHT)	Intelligent Analogue Addressable Optical Smoke Detector (white) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS & YBO-BSB Bases) Note: 1. Meets the requirements of EN 54-7 in low and high sensitivity settings.	358c/07
ALN-E(WHT)	Intelligent Analogue Addressable Optical Smoke Detector (White) (YBN-R/3(SCI), YBN-R/3, YBO-R/SCI, YBO-BS, YBO-BSB, YBN/R/2NA) Note: 1. Meets the requirement of EN 54-7 in low and high sensitivity settings.	358c/08
SOC-E3N	Conventional Optical Smoke Detector (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09
SOC-E3N(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/09
SOC-E3(WHT)	Conventional Optical Smoke Detector (White) (YBN-R/6, YBN-R/6SK, YBO-R/6R, YBO-R/6RS, YBO-R/6RN & YBO-R/6PA bases)	358c/10

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Issue: 13**Bases**

YBN-R/3	Standard Base
YBO-R/SCI	Positive switching short circuit isolator base
YBO-BS	Sounder base
YBO-BSB	Sounder base with Beacon
YBN-R/6	Standard Base
YBN-R/6SK	Standard base with schottky diode
YBO-R/6R	Relay Base
YBO-R/6RS	Relay Base latching with schottky diode
YBO-R/6RN	Relay base non latching
YBO-R-6PA	Protector alarms base
YBN-R/3(SCI)	Short circuit isolator base
YBN/R/2NA	Standard Base

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Alternative Model Numbers and Labelling

LPCB Ref No.	Model No.	Alternative Model	Cross-listed company	Cross-Listed Co Cert./ Ref No.
358c/03	ALK-E	ALK-EM	Hochiki America Corporation	358c
358c/03	ALK-E (WHT)	ALK-E (HFP)	HFP (Hochiki Europe (UK) Limited)	358c
358c/03	ALK-E (WHT)	1412110	HDR (Hochiki Europe (UK) Limited)	358c
358c/04	ALG-EN	ALG-ENM	Hochiki America Corporation	358c
358c/04	ALG-EN (WHT)	1412120	HDR (Hochiki Europe (UK) Limited)	358c
358c/05	SLV-E3	SLV-E3	Hochiki Europe (UK) Limited	358c
358c/05	SLV-E3	SLV-E3 (WHT)	Hochiki Europe (UK) Limited	358c
358c/05	SLV-E3	1212270	HDR (Hochiki Europe (UK) Limited)	358c
358c/05	SLV-E3	SLV-E3 (HFP)	HFP (Hochiki Europe (UK) Limited)	358c
358c/06	SLR-E3N	SLR-E3N	Hochiki Europe (UK) Limited	358c
358c/06	SLR-E3N	SLR-E3N	Hochiki Europe (UK) Limited	358c
358c/06	SLR-E3N	SLR-E3N	Hochiki Europe (UK) Limited	358c
358c/06	SLR-E3N	1212280	HDR (Hochiki Europe (UK) Limited)	358c
358c/08	ALN-E(WHT)	ALN-E(HFP)	HFP (Hochiki Europe (UK) Limited)	358c
358c/09	SOC-E3N	SOC-E3N	Hochiki Europe (UK) Limited	358c
358c/09	SOC-E3N(WHT)	SOC-E3N(WHT)	Hochiki Europe (UK) Limited	358c
358c/10	SOC-E3(WHT)	SOC-E3(WHT)	Hochiki Europe (UK) Limited	358c
358c/10	SOC-E3(WHT)	SOC-E3(HFP)	HFP (Hochiki Europe (UK) Ltd)	358c

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Issue: 13

Bases

164	YBN-R/3	YBN-R/3	HFP (Hochiki Europe (UK) Limited)	164
164	YBN-R/6	YBN-R/6	HFP (Hochiki Europe (UK) Limited)	164
164n/01	YBO-R/SCI	YBO-R/SCI	HFP (Hochiki Europe (UK) Limited)	164n/01
164	YBO-BS	YBO-R/SCI	HFP (Hochiki Europe (UK) Limited)	164
164	YBO-BSB	YBO-R/SCI	HFP (Hochiki Europe (UK) Limited)	164
164n/04	YBN-R/3(SCI)	YBN-R/3(SCI)	HFP (Hochiki Europe (UK) Limited)	164n/04
164	YBO-BS	YBO-BS	HFP (Hochiki Europe (UK) Limited)	164
164	YBO-BSB	YBO-BSB	HFP (Hochiki Europe (UK) Limited)	164
164	YBN/R/2NA	YBN/R/2NA	HFP (Hochiki Europe (UK) Limited)	164
358	YBN-R/6	YBN-R/6	HFP (Hochiki Europe (UK) Limited)	358
358	YBN-R/6SK	YBN-R/6SK	HFP (Hochiki Europe (UK) Limited)	358
358	YBO-R/6R	YBO-R/6R	HFP (Hochiki Europe (UK) Limited)	358
358	YBO-R/6RS	YBO-R/6RS	HFP (Hochiki Europe (UK) Limited)	358
358	YBO-R/6RN	YBO-R/6RN	HFP (Hochiki Europe (UK) Limited)	358
358	YBO-R/6PA	YBO-R/6PA	HFP (Hochiki Europe (UK) Limited)	358

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