



# Certificate of Conformity

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## Product designation

**Sigma CP, K11/T11 Series, conventional fire alarm control panels**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Incite Fire

Block Y, Unit 1, Regents Park Estate, 391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

## Registrant

Kentec Electronics Limited

Units 25-27 Fawkes Avenue, Questor, DARTFORD, KENT, UNITED KINGDOM, DA1 1JQ

### Producer

Kentec Electronics Limited

Units 25-27 Fawkes Avenue, Questor, DARTFORD, KENT, UNITED KINGDOM, DA1 1JQ

## Conformance criteria and evaluation

The Sigma CP, K11/T11 Series, conventional fire alarm control panels has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.2-2004, 'Fire detection and alarm systems - Part 2: Control and indicating equipment (ISO 7240-2:2003, MOD)'.
2. Australian Standard AS 7240.4-2004, 'Fire detection and alarm systems - Part 4: Power supply equipment (ISO 7240-4:2003, MOD)'.
3. Australian Standard AS 7240.13-2006, 'Fire detection and alarm systems - Part 13: Compatibility assessment of system components'.

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Compatibility of this equipment with new or existing actuating devices should be verified prior to installation.
- ii. All parts of the c.i.e. are mounted in a single enclosure.
- iii. The p.s.e. is mounted in the same enclosure as the c.i.e;

(Limitations/conditions of conformance continue)

Issued by

David Whittaker

Executive Officer – ActivFire Scheme



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- iv. The c.i.e. is fitted with the labels that meet the Marking requirements of Section 15 and Annex ZA of the Standards,
- v. The c.i.e. is installed in areas appropriate to the lower audible indication level contemplated in clause 13.10.2 of the conformance criteria.

## Producer's description

The Sigma CP, K11/T11 Series, conventional fire alarm control panels which form the central part of a fire detection and alarm system.

This equipment consists of 2, 4 and 8 zone control panels. All control panels are available in two versions:

- Sigma K11 range in which detectors and call points are wired on separate circuits to sounders.
- Sigma T11 range in which detectors, call points and sounders are wired to the same pair of cables.

The control and indicating equipment use 7-segment LED display and zonal LEDs to provide indication of the operating condition.

The Sigma CP, K11/T11 Series are supplied in a sheet metal cabinet incorporating a protective door. With the door in the secured position, a window permits viewing of the indications required at Access Level 1. Using a 003 type key, it permits access to controls and indications required at Access Level 2.

The Sigma CP, K11/T11 Series includes integrated power supply equipment (p.s.e). The cabinet includes space for batteries as the secondary power source and may be fitted with an auxiliary 24V DC supply to enable local signalling or control of ancillary systems such as door release controllers.

Operation is via button-controls with indication provided through zonal alarm LEDs and LED display.

## Technical specification

The following details are a representative extract of the technical specification for the Sigma CP, K11/T11 Series, conventional fire alarm control panels and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Sigma CP designations			
Series		Model	Number of zones
<b>K11</b>	Detectors and call points are wired on separate circuits to sounders.	K11020M2	2
		K11040M2	4
		K11080M2	8
<b>T11</b>	Detectors, call points and sounders are wired to the same pair of cables.	T11020M2	2
		T11040M2	4
		T11080M2	8

<b>Power input:</b>	230V AC +10% - 15% (100 Watts maximum)
<b>Power supply:</b>	3 Amps total including battery charge 28V +/- 2V
<b>Operating temperature:</b>	-5 to 40 °C
<b>Operating relative humidity</b>	0 to 95 %RH (non-condensing)
<b>Battery type</b>	Two 12 Volt sealed lead acid (7Ah maximum)

Description	Board/Part No	Rev No
Main PCB and PSE	D1008	Issue 14

(Technical specification continues)

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The c.i.e. and p.s.e. comprise of a number of modules, as detailed below, which mount into the c.i.e. housing.

AS 7240.2 Clause	Optional Function with Requirements	Evaluation
7.8	Output to fire alarm devices	Included
7.9	Output to fire alarm routing equipment	Included
7.10	Output to fire protection equipment	Not evaluated
7.11	Delays to outputs	Included
7.12	Coincidence of protection	Not evaluated
7.13	Alarm counter	Not evaluated
8	Supervisor condition	Not evaluated
9.3	Fault signals from points	Not evaluated
9.4	Total loss of power supply	Not evaluated
9.9	Output to fault warning routing equipment	Not evaluated
10	Disable condition	Included
10.5	Disabling of addressable points	Not evaluated
11	Test condition	Included
12	Standardized I/O Interface	Not evaluated
16.6	Impact Test (operational)	Included
16.7	Vibration (operational)	Included
Annex ZA	Marking requirements	Included
Annex ZB	Alarm Acknowledgement Facility	Not evaluated
Annex ZC	Dry Heat Test	Not evaluated
Annex ZD	Ancillary Control Function	Not evaluated

AS 7240.4 Clause	Optional Function with Requirements	Evaluation
5.5	Battery function check	Not evaluated
9.7	Impact (operational)	Included
9.8	Vibration (operational)	Included
9.11	Vibration (endurance)	Included
Annex ZA	Marking requirements	Included

## Actuating devices

**AZF designation:** c.i.e. circuit board: D1008, Issue14  
**Circuit type:** Conventional (current sensing)

Actuating device			Mounting base		Maximum number of devices per AZF	Specific limitation item number(s)	Compatibility criteria	Reference
Trade brand	Model	Type description	Trade brand	Model				
Hochiki	SLV-AS	Photoelectric smoke detector	Hochiki	YBN-R/4C	40	1	AS 7240.13-2006 incl. Amdt 1	XF2722/R2
Hochiki	SLV-AS	Photoelectric smoke detector	Hochiki	YBO-R/6PA	35	-		
Hochiki	SLV-AS	Photoelectric smoke detector	Hochiki	YBO-R/4A	40	1		
Hochiki	DCD-A	Type A heat detector	Hochiki	YBN-R/4C	40	1		
Hochiki	DFJ-60B	Type B heat detector	Hochiki	YBN-R/4C	40	1		
Hochiki	DCD-A	Type A heat detector	Hochiki	YBO-R/4A	40	1, 2		
Hochiki	DFJ-60B	Type B heat detector	Hochiki	YBO-R/4A	40	1, 2		
Hochiki	DCD-A	Type A heat detector	Hochiki	YBO-R/6PA	35	-		
Hochiki	DFJ-60B	Type B heat detector	Hochiki	YBO-R/6PA	35	-		
Hochiki	DCD-C	Type C heat detector	Hochiki	YBN-R/4C	32	-		
Hochiki	DFJ-90D	Type D heat detector	Hochiki	YBN-R/4C	32	-		
Hochiki	DCD-C	Type C heat detector	Hochiki	YBO-R/4A	32	2		
Hochiki	DFJ-90D	Type D heat detector	Hochiki	YBO-R/4A	32	2		
Hochiki	DCD-C	Type C heat detector	Hochiki	YBO-R/6PA	26	-		

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<b>AZF designation:</b>	c.i.e. circuit board: D1008, Issue14
<b>Circuit type:</b>	Conventional (current sensing)

Actuating device			Mounting base		Maximum number of devices per AZF	Specific limitation item number(s)	Compatibility criteria	Reference
Trade brand	Model	Type description	Trade brand	Model				
Hochiki	DFJ-90D	Type D heat detector	Hochiki	YBO-R/6PA	26	-		
Hochiki	DRD-AS	Flame detector	Hochiki	YBN-R/6	22	-		
Hochiki	DRD-AS	Flame detector	Hochiki	YBO-R/6PA	20	-		
Hochiki	DFG-60BLKJ	Type B heat detector	n/a		40	1		
Hochiki	SPC-AS	Optical beam smoke detector (4-wire)	n/a		10	3		
Hochiki	SLV-AS3	Photoelectric smoke detector	Hochiki	YBN-R/6	40	1, 4	AS 7240.13-2006 incl. Amdt 1	XF2722/R1
Hochiki	SLV-AS3	Photoelectric smoke detector	Hochiki	YBN-R/4C	40	1, 4		
Hochiki	SLV-AS3	Photoelectric smoke detector	Hochiki	YBN-R/2NA	40	1, 4		
Hochiki	DCD-A3	Type A heat detector	Hochiki	YBN-R/6	40	1, 4		
Hochiki	DCD-A3	Type A heat detector	Hochiki	YBN-R/4C	40	1, 4		
Hochiki	DCD-A3	Type A heat detector	Hochiki	YBN-R/2NA	40	1, 4		
Hochiki	DFJ-A3	Type A heat detector	Hochiki	YBN-R/6	40	1, 4		
Hochiki	DFJ-A3	Type A heat detector	Hochiki	YBN-R/4C	40	1, 4		
Hochiki	DFJ-A3	Type A heat detector	Hochiki	YBN-R/2NA	40	1, 4		
Hochiki	SLV-AS	Photoelectric smoke detector	Hochiki	YBO-R/6PA	35	5		
Hochiki	DCD-A3	Type A heat detector	Hochiki	YBO-R/6PA	35	5		
Hochiki	DFJ-A3	Type A heat detector	Hochiki	YBO-R/6PA	35	5		
Hochiki	SLV-AS	Photoelectric smoke detector	Hochiki	YBO-R/4A	40	1, 4		
Hochiki	DCD-A3	Type A heat detector	Hochiki	YBO-R/4A	40	1, 4		
Hochiki	DFJ-C3	Type C heat detector	Hochiki	YBO-R/4A	40	1, 4		
Hochiki	DCD-C3	Type C heat detector	Hochiki	YBN-R/6	32	4		
Hochiki	DCD-C3	Type C heat detector	Hochiki	YBN-R/4C	32	4		
Hochiki	DCD-C3	Type C heat detector	Hochiki	YBN-R/2NA	32	4		
Hochiki	DFJ-C3	Type C heat detector	Hochiki	YBN-R/6	32	4		
Hochiki	DFJ-C3	Type C heat detector	Hochiki	YBN-R/4C	32	4		
Hochiki	DFJ-C3	Type C heat detector	Hochiki	YBN-R/2NA	32	4		
Hochiki	DCD-C3	Type C heat detector	Hochiki	YBO-R/6PA	26	4		
Hochiki	DFJ-C3	Type C heat detector	Hochiki	YBO-R/6PA	26	4		
Hochiki	DCD-C3	Type C heat detector	Hochiki	YBO-R/4A	32	5		
Hochiki	DFJ-C3	Type C heat detector	Hochiki	YBO-R/4A	32	5		

## Specific limitation items

- Maximum number of detectors specified by installation standard (AS 1670.1)
- The Hochiki model YBO-R/4A base is not a compatible component when connected to the Sigma CP, K11/T11 series c.i.e. operating with sounders enabled. In this mode the c.i.e. reverses the polarity on the alarm zone upon detection of a fire alarm condition. The YBO-R/4A base ceases to function correctly when the polarity reversal occurs.
- The Sigma CP, K11/T11 series c.i.e. is required to operate in mode 27 ("24V supply switches off for about 5 seconds when the panel is reset.") to enable resetting of the optical beam detector. The c.i.e. must also be configured such that a short circuit indicates alarm when used in conjunction with the optical beam.

### Explanatory notation

The maximum number of Hochiki model SPC-AS optical beam smoke detectors which can be interconnected is limited by the maximum current rating of the Sigma CP c.i.e. auxiliary power output (500mA). This restricts the maximum number of SPC-AS optical beam smoke detectors that can be supported by this c.i.e. to ten (10).

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4. c.i.e. sounder enabled.
5. c.i.e. sounder disabled.