



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2968</b>	20-Mar-2015	Number 11	Issue date 2-Apr-2024	30-Apr-2025

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## Product designation

**Taktis, TS Series, fire 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 Taktis, TS Series, fire control panels have 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 4428.3-2010, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire brigade panel'.

## 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.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kai Loh

Executive Officer – ActivFire Scheme



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## Producer's description

The Taktis, TS Series, fire control panels form a central part of a fire detection and alarm system using the Hochiki "Enhanced Systems Protocol" (ESP).

This equipment CIE contains an integrated AS4428.3 2010 Fire Brigade Panel (FBP)

The Taktis, TS Series, fire control panels combine the latest hardware and software to produce a control and indicating system, which is powerful and sophisticated, yet simple to use

This equipment incorporates an intuitive large robust 7" 800 x 480, full colour graphical display with resistive touch screen functionality which delivers information on the status of the fire alarm system and enables full control.

All field wiring can be connected to a passive motherboard enabling addition, reconfiguration or replacement of all electronic hardware without the need to disconnect any field wiring.

This modularity also enables each panel to be customised with addressable loop detection circuits, conventional circuits, relay cards, additional sounder outputs or programmable I/O modules as required

These modules include:

- 2 Loop addressable Hochiki ESP protocol board
- 8 zone conventional detection board
- 4 way sounder output board
- 8 way relay board
- 16 channel programmable I/O with digital inputs and open collector outputs
  - Media Gateway communications board
- Provides the means to communicate with any system and transmit real information back to a dedicated server
- A Bridge Network Card (connecting this equipment to existing Syncro networks)

Loop Explorer 2 configuration software provides a familiar, simple to use PC application with the power to produce the most complex configurations via an easy to use interface.

This equipment monitors inputs and activates the required outputs via panel front end configuration or cause and effect of the LE2 configuration software. Fire, Fault, Alert, Transparent, Technical Alarm, Security etc are a configured built menu along with AVF, Hotel Mode and AAF facilities.

## Technical specification

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

### Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Includes door?	Description
Type	Ident.		
Model	TS1	Yes	Enclosure/cabinet dimensions H 585 mm x W 420 mm x D 140 mm
	TS2	Yes	Enclosure/cabinet dimensions H 710 mm x W 500 mm x D 150 mm
	TS3	Yes	Enclosure/cabinet dimensions H 1065 mm x W 560 mm x D 228 mm

### Schedule of optional functions with requirements

The following schedule of AS 7240.2-2004 optional functions with requirements have been validated.

1. Indications:
a. Alarm counter (Cl. 7.13)
b. Fault signals from points (Cl. 9.3)
2. Controls:
a. Delays to outputs (Cl. 7.11)
b. Dependency on more than one alarm signal (Cl. 7.12)
c. Disabled condition (Cl. 10)
d. Disablement of each addressable point (Cl. 10.5)

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e. Test condition (Cl. 11)
3. Outputs:
a. Output to fire alarm devices (Cl. 7.8)
b. Control of fire alarm routing equipment (Cl. 7.9)
c. Output to fire protection equipment (Cl. 7.10)
d. Output to fault warning routing equipment (Cl. 9.9)
4. Operational
a. Impact (operational) (Cl. 16.6, Annex ZA2: not optional)
b. Vibration, sinusoidal (operational) (Cl. 16.7, Annex ZA2: not optional)
5. Marking requirements (Cl. 15, Annex ZA2: not optional)

The following schedule of AS 7240.4–2004 optional functions with requirements have been validated.

1. Battery function check (Cl. 5.5)
2. Marking (Cl.8, Annex ZA2: not optional)
3. Impact (operational) (Cl. 9.7, Annex ZA2: not optional)
4. Vibration, sinusoidal (operational) (Cl. 9.8, Annex ZA2: not optional)
5. Vibration, sinusoidal (endurance) (Cl. 9.11, Annex ZA2: not optional)
6. Marking requirements (Cl. 15, Annex ZA2: not optional)

## Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Model	TS2	TS3
Number of loops	2 - 8 Loop	
Protocols	Hochiki Enhanced Systems Protocol (ESP Protocol)	
Zonal fire indicators	Up to 2000 per panel	
Networking	128 panels (115200bps)	
Auxiliary indicators	Via additional touch screen display	
Display	7" full colour TFT –LCD, 800 x 480 with resistive touch screen	
Addressable Points	127 Per Loop + 127 Sounder bases 2032 Addressable Points Max per panel	
Sub-addresses per panel	6400 (400 per loop)	
Addressable point text	80 characters	
Zone name text	80 characters	
Sounder outputs/rating	Sounder x 4 24 Vdc @ 2.5 A, programmable for continuous power, synchronisation and power-drop on reset	
AUX 24V supplies	AUX 2 x 24 Vdc fused at 500 mA	
Total C&E entries	50000	
RS485 Expansion Cards	32	
Programmable I/Os	512 Programmable I/O per panel	
Connection to PC	USB type A & B	
Maximum loop current	400mA	
Power supply	10.25A	
Max batteries	28 Ah	40 Ah
Programmable relays	2 Programmable relay 1 Volt free contact rated at 30 V, 1 A	
Fire relay	Fire relay Volt free contact rated at 30 V, 1 A	
Alarm relay	Alarm relay Volt free contact rated at 30 V, 1 A	
Fault relay	Fault relay Volt free contact rated at 30 V, 1 A	
Programmable inputs	3 Programmable Inputs	
Programmable buttons	24 configurable via Loop Explorer	
Ancillary serial ports	2 configurable	
Event log/resolution	99999 at 1 second	
Inverted inputs and outputs	Yes	
Marine approvals	Yes	
AAF, Hotel modes, AVF	Yes	

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## Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Description	Board/Part No	Issue/Rev/Version
10.25A Power Supply	S408	Issue 10
LCD Main Processor Board	S721	Issue H
Taktis Main Back Board	S722	Issue 1
Taktis Ethernet (Taktis Network/FAM/Ethernet)	S723	Issue E
Taktis Dual Loop Board	S758	Issue F
Taktis System Board A Module	S769	Issue C
Taktis System Board B Module	S770	Issue D
Zone LED board	S771	Rev 3
Taktis Visio (SAM) Board	S787	Rev B
Main Program Software	-	RC_01_00_000_AU

Taktis Series designation	Description	Type
ALN-ASN	Photoelectric smoke detector	Sensors
ATJ-ASN	Smoke/thermal multi-sensor	
ACC-ASN	Multi heat sensor	
ACD-ASN	CO multi sensor	
ALK-ASN	Photoelectric smoke detector	
ACA-ASN	Smoke/thermal multi-sensor	
ACB-ASN/ACB-ASNW	Multi heat sensor	
ALG-AS	Photoelectric smoke detector	
ALK-AS	Photoelectric smoke detector	
ACA-E	Smoke/thermal multi-sensor	
ACB-AS / ACB-ASW	Multi heat sensor	
FB-1	FIREbeam	Modules
CHQ-SZM2	Single zone monitor	
CHQ-DIM2	Dual switch monitor	
CHQ-DSC	Dual sounder controller	
CHQ-DRC2	Dual relay controller	
CHQ-DZM2	Dual zone monitor	
CHQ-MRC2	Single input/output device	
CHQ-PCM	Plant Control Module	
CHQ-POM	Powered output module	
CHQ-SIM	Single Input Module	
CHQ-SOM	Single output module	
CHQ-WS2	Wall sounder	Sounder
YBO-BS	Base sounder	
CHQ-WSB2	Wall sounder beacon VAD	VAD / Sounder
YBO-BSB2	Base sounder beacon VAD	
CHQ-CB	Ceiling beacon VAD	VAD
CHQ-WB	Wall beacon VAD	
CHQ-AB	Loop Powered Strobe	Strobe
CHQ-ARI	Loop Powered Remote Indicator	
YBN-R/3	Non Electronic Standard Base	Bases
YBN-R/3 SCI	Short circuit isolator base	
YBN-R/2NA	Non Electronic Standard Base	
YBO-R/SCI	Short circuit isolator base	
YCA-RL/5H2	Addressable Master Base	
YCA-RL/3H2	Addressable Slave Base	
HCP-E (SCI)	Manual call point	Manual Call points
HCP-W (SCI)	Manual call point waterproof	

Note: These components have been validated as connectable for the function and performance of this equipment. The schedule will be extended to include Type 1 component compatibility upon validation and acquittal of an AS 7240.13 evaluation program

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## Supplementary information

### Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report Number	XF2738/R1	Evaluation for Conformity of the Taktis, TS series, fire control panels to the requirements of AS 7240.2-2004, AS 7240.4-2004 and AS 4428.3-2010	20-Mar-2015	CSIRO, Fire Systems, AU
Report Number	TE275059 Issue 1	Technical evaluation of the Kentec Electronics Ltd Taktis 4-6 loop analogue addressable control and indicating equipment to the requirements of selected clauses from EN54-2:1997 +A1:2006, EN54-4:1997 +A1:2002, +A2:2006, EN 50130-4:1995, +A1:1998, +A2:2003 and EN 50130-4:2011	12-Dec-2014	BRE Global Ltd, UK
	TE 275059-SW Issue 1	Software evaluation of the Kentec Electronics Ltd, Taktis range of analogue addressable Control & Indicating Equipment to the requirements of Clause 13 in EN 54-2.	14-Jan-2015	
Part Number	Man-1154-In Revision E01.00,	Taktis Fire Control Panel - Installation Manual	Dec-2014	Incite Fire, AU
	OPIN-000004IN, Revision E01.00	Taktis Operating Instructions		
Project ident.	XL2093.10	[XL2093.10]: Taktis, TS Series, TS1 variant, veri-cert: CSIRO Verification Services	14-Apr-2022	CSIRO, Verification Services. AU