



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1705	28-Apr-2006	Number 17	Issue date 1-May-2020	30-Apr-2021

Page 1 of 4

Product designation

Honeywell, LST-700 Series, fire indicator panel

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

Agent/distributor

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

C-Tec
Stephens Way, Goose Green, WIGAN, LANCASHIRE, UNITED KINGDOM, WN3 6PH

Conformance criteria and evaluation

The Honeywell, LST-700 Series, fire indicator panel 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 7240.7-2004, 'Fire detection and alarm systems - Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2003, MOD)'.

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. This equipment is manufactured with 2, 4 and 8 zones and is not field expandable.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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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.
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Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page 2 of 4
afp - 1705	28-Apr-2006	Number 17	Issue date 1-May-2020	30-Apr-2021	

Producer's description

The Honeywell, LST-700 Series, fire indicator panel is control and indicating equipment (CIE) which function as a microprocessor based conventional system. It consists of three models which share the same enclosure, controls, power supplies and motherboard and can be supplied as either two, four or eight alarm zone facilities (AZF). Mandatory indications are displayed using LEDs. Four access levels are provided. Access level 2 requires a key, access level 3 requires the use of a special tool (Torxkey) and access level 4 is required for hardware or software changes undertaken by the manufacturer.

Internally, the Honeywell, LST-700 Series, fire indicator panel provides auxiliary inputs to designated Alert or Class Change. These are intended for use with auxiliary outputs and can be configured to operate sounders continuously when connected to 0 volts, a reset output to reset fire system devices such as roller-shutter doors or beam detectors, an alert input which operates sounders intermittently when connected to 0 volts, a remote output for fire alarm and an auxiliary output for fire alarm outputs.

Indicators

The Honeywell, LST-700 Series, fire indicator panel annunciates information by the following indicators (two groups):

Individual Zone Group

The LED summary displays incorporate the following indicators:

- Common Actuation Activated - (red LED)
- Individual Activation of alarm - (1-8 red LED)
- Individual Activation of zone fault (1-8 flashing amber LED)
- Individual Activation of zone disablement (1-8 steady amber LED)
- Individual Activation of zone test (1-8 flashing amber LED)
- Provision for eight labels for information on zones

General Group

- General Fault - (amber LED), Common fault for all fault indication including earth fault
- Supply Present - (green LED)
- General Disablement Fault - (Amber LED)
- Power Supply - Fault (Amber LED)
- System Fault - (amber LED)
- Repeater Fault - (amber LED)
- Sounder Status - (amber LED)
- Auxiliary Output Status - (amber LED)
- Outputs Delay - (amber LED)
- Remote Output - (red LED)
- Test - (amber LED)
- Accessed - (amber LED)
- Fault Output Status - (amber LED)
- Remote Output Status - (amber LED)

Switches

The Honeywell, LST-700 Series, fire indicator panel allows controls by the following switches facilitated by written information to the left of indicators and controls:

- Silence/Activate Sounder - (Amber LED) - manual control at access level 2 which is accessed with a key by inserting and turning, and to exit from access mode, it is turned and removed.
- Silence Internal Sounder - (Amber LED) can be Silence of Audible indication (manual control at access level 1).
- Control Panel Reset - resets alarm and fault warning (manual control at access level 2).
- Next Option button disables and re-enable the function (manual control at access level 2).
- Enabled/disabled or Lamp Test (manual control at access level 2)

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	
afp - 1705	28-Apr-2006	Number 17	Issue date 1-May-2020	30-Apr-2021	Page 3 of 4

Audible Indicators

The audible indication for fire and fault is by different pulsed tones.

The Auxiliary output can be used for output to fire alarm routing equipment.

The Honeywell FP power supply/battery charger unit was a switch mode type. It is integral to the CIE (combined with the FIP on a single PCB), incorporating a temperature compensated battery charger. The power supply is rated at a maximum of 1.5 A, allowing a maximum of 0.183 A charging current, for a maximum of a battery capacity of 3.3 Ah. The nominated battery was YUASA, NP Series.

Technical specification

The following details are a representative extract of the technical specification for the Honeywell, LST-700 Series, fire indicator panel and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Models of the Honeywell, LST-700 Series, fire indicator panel that have been evaluated and form part of the listed equipment include the following.

Model	Number of zones
LST-702	2
LST-704	4
LST-708	8

Case	
Installation	Wall or flush mount
Dimensions	380 x 235 x 90 mm
Power supply	
Input	230 Vac±10%
Output	27 Vdc. nominal
Output range	20.5 to 28.5Vd.c., ripple = 500mV pk-pk
Charger output	24V dc nominal @ 20 °C, temperature compensated, -41mV/°C
Maximum battery size	2 x 12V 3.3 Ah VRLA connected in series
Charger Fuse	T 1A H 20mm ceramic fuse S505
Battery Fuse	F 1.6 A L 20mm fuse S500
Number of zones	2, 4 or 8
Maximum zone capacity	As determined by compatibility evaluations and design/installation requirements
Zone end of line device	20 V Zener
Maximum cable length	500 metres
Maximum allowable impedance	20Ω
Maximum cable capacitance	0.27mF
Sounder outputs	4 x 200mA
Operating specifications	
Supply voltage	230 Vac ±10% @ 50/60Hz
Ambient temperature	-5 °C to +40 °C
Humidity (max)	93% relative humidity (non-condensing)

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1705	28-Apr-2006	Number 17	Issue date 1-May-2020	30-Apr-2021
				Page 4 of 4

Evaluated modules

Description	Identification		Tech. Drawing	
	Number	Rev.	Number	Iss.
*24 V 1.5 A Switch mode power supply	DFA702481	6	DFA702481	6
*24 V 1.5 A Switch mode power supply	DFA702481	6	DFA702481	6
CFP 2 Zone Main Control	DFA0724801	1	DFA0724801	1
CFP 4 Zone Main Control	DFA0724803	1	DFA0724803	1
CFP 8 Zone Main Control	DFA0724805	1	DFA0724805	1
CFP 2 Zone Main Control Sub Ass.	DFA0724811	1	DFA0724811	1
CFP 4 Zone Main Control Sub Ass.	DFA0724813	1	DFA0724813	1
CFP 8 Zone Main Control Sub Ass.	DFA0724815	1	DFA0724815	1
CFP Base Assembly	DFA7248100	1	DFA7248100	1
CFP CPU Circuitry	DFC0724800 1 of 3	1	DFC0724800 1 of 3	1
Program memory is flash (access level 4 non-volatile) Site specific is EPROM (access level 3) memory device Motorola MC68HC708AZ60 IC3 on main processor board VB15	Refer to tech. drawing DFA0724801	-		

Actuating devices

Device Type	Maximum per zone	Reference
System Sensor 51A51 Type A heat detector	40*	XF2097/R1 February 2005
System Sensor 51B51 Type B heat detector	40*	XF2097/R1 February 2005
System Sensor 51C51 Type C heat detector	40*	XF2097/R1 February 2005
System Sensor 51D51 Type D heat detector	40*	XF2097/R1 February 2005
System Sensor 1151AUS Ionisation Smoke Detector	40*	XF2097/R1 February 2005
System Sensor 2151AUS Photoelectric Smoke Detector	40*	XF2097/R1 February 2005
Ademco 1600 Ionisation smoke detector	40*	XF2097/R1 February 2005
Ademco 2600 Photoelectric smoke detector	40*	XF2097/R1 February 2005
All of the above with the B401 base		

* Maximum number of detectors per AZF/AZC allowed by code.