CSIRO Verification Services
Clayton, Victoria, Australia
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https://activfire.csiro.au

Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until
afp - 1616	19-Sep-2003	19	20-Apr-2023	30-Apr-2024

Product designation

System Sensor, Model 51B51, Type B heat detector

(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

Xi'an System Sensor Electronics, Ltd
11 Xiao Zhai East Road, XIAN, SHAANXI, CHINA, 710061

Conformance criteria and evaluation

The System Sensor, Model 51B51, Type B heat detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.1-1997, 'Automatic fire detection and alarm systems - Heat detectors' incl. Amdt 1 (August 1998).

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 fire detector and its base assembly with new or existing control and indicating equipment 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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The validity and authenticity of this certificate can be verified by the certification register located at https://activfire.csiro.au

Schedule to
Certificate of Conformity

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Producer's description

The System Sensor, Model 51B51, Type B heat detector is a conventional detector with a fixed temperature operation. When heat is detected, the detector latches into alarm and signals the control and indicating equipment (CIE).

Whilst in alarm, the System Sensor, Model 51B51, Type B heat detector illuminates its integral and, if fitted, remote alarm LED indicators. The alarm current must be limited by the CIE. The alarm state is reset from the CIE by interrupting the alarm current.

The detector may be tested in-situ by using a hot air source applied at 15 cm from the detector to prevent damage to the cover. Once activated, the detector must be reset at the CIE.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model 51B51, Type B heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Specifications:

Operating voltage range:	12 to 28 Vdc
Quiescent current:	85 µA
Alarm state voltage:	4.2 to 6.4 Vdc
Alarm current:	5 to 100 mA (must be externally limited)
Fixed temperature set point:	60°C
Ambient temperature:	-5°C to +45°C
Relative humidity:	95% (non-condensing)

Tested base designation	Base + detector circuit type
System Sensor, Model B401	Conventional

Supplementary information

System Sensor B401 base assembly wiring

Terminal	Connection
1:	+ Remote
2:	- In & Remote
3:	- Out
4:	+ In & Out
5:	Not used