



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1688	29-Mar-2004	Number 15 (Provisional)	Issue date 1-May-2020	30-Apr-2021

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Product designation

EST, Model SIGA-HRSAA, Type A heat detector

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

Agent/distributor

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Registrant

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Producer

Edwards
8985 Town Center Parkway, BRADENTON, FL, UNITED STATES, 34202

Conformance criteria and evaluation

The EST, Model SIGA-HRSAA, Type A 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. The heat detector is used in conjunction with a compatible CIE, such as the EST2 with signature loop controller (SLC) firmware version 2.10, or equivalent.
- ii. 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

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The EST, Model SIGA-HRSAA, Type A heat detector is a resetting analog addressable combination rate of rise and fixed temperature operation heat detector. The detector incorporates a microprocessor and a 1K-bit eeprom. Sensitivity response of the detector is possible by allocating specific values to certain registers of the eeprom. The heat detector utilizes a negative temperature coefficient thermistor as the heat sensing element. The nominal fixed temperature alarm point is $60^{\circ}\text{C} \pm 2\%$. The thermistor is located within the moulding of the detector but is open to the environment and is able to respond rapidly to a change in the ambient temperature.

The heat detector is an analog addressable type device and is connected to compatible CIE via a suitable base. Addressing of the heat detector is conducted electronically at the point of manufacture but may also be programmed on-site.

The heat detector has two integral LEDs. A green LED that flashes regularly to indicate normal quiescent state operation and a red LED which flashes regularly when the heat detector is in the alarm state. When the heat detector enters into an alarm state, acknowledgment of the alarm state and resetting of the CIE is required to return the heat detector to its quiescent state.

The EST, Model SIGA-HRSAA, Type A heat detector is approximately 110 mm in diameter and has a height of approximately 72 mm when connected to its mounting base.

Technical specification

The following details are a representative extract of the technical specification for the EST, Model SIGA-HRSAA, Type A heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Detector:

Operating voltage range:	15.2 to 19.95 Vdc
Normal operating current:	45 μA
Alarm current:	45 μA
Standalone alarm current:	18 mA
Alarm point :	$60^{\circ}\text{C} \pm 2\%$
Operating temperature range:	0 to 38°C
Operating humidity range:	0 to 93 % RH, non-condensating
Storage temperature range:	-20 to 60°C
Construction & finish:	high impact engineering polymer, white
LEDs:	The heat detector provides two LEDs that indicate the status of the detector:-
Normal:	green LED flashes
Alarm:	red LED flashes
Standalone alarm:	green and red LEDs glow continuously

EST, Model SIGA-SB base assembly:

The EST model SIGA-SB base is a plain base (it does not incorporate any electronic components). The base provides a mounting facility for the multisensor and a means of connection between the multisensor and the CIE.

Permanent wiring connections to the base consist of the power/communications line and remote indicator facility. The base is approximately 110 mm in diameter and has a height of approximately 19 mm.

Operating temperature range:	0 to 49°C
Operating humidity range:	0 to 93 % RH.
Storage temperature range:	-20 to 60°C .
Construction & finish:	High impact engineering polymer, white.
Wiring:	#12 AWG, #14 AWG, #16 AWG and #18AWG.
Maximum distance from ceiling:	305 mm (for wall mounted position)

Tested Base Designation	Base + Detector Circuit Type
EST, Model SIGA-SB	Analogue Addressable