



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1684	29-Mar-2004	Number 15 (Provisional)	Issue date 1-May-2020	30-Apr-2021

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Product designation

EST, Model SIGA-PS, nom. sens. (S)=10% obs./m, photoelectric smoke 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-PS, nom. sens. (S)=10% obs./m, photoelectric smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1997, 'Automatic fire detection and alarm systems - Point type smoke 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 sensitivity setting of the smoke detector is "1.0 %/ft" (equivalent to 10 % Obs./m).
- ii. Alarm verification delay, where set, is not greater than 10 seconds.
- iii. The smoke detector is used in conjunction with a compatible panel, such as the EST2 with signature loop controller (SLC) firmware version 2.10, or equivalent.
- iv. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

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.
- 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.

Schedule to Certificate of Conformity

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Producer's description

The EST, Model SIGA-PS, nom. sens. (S)=10% obs./m, photoelectric smoke detector is a single station photoelectric smoke detector and uses an optical sensing system consisting of an infra-red emitter and photodiode as the sensing element. The detector is an analogue addressable type device and is connected to the Control and Indicating Equipment (CIE) via the EST, Model SIGA-SB base assembly.

The EST, Model SIGA-PS, nom. sens. (S)=10% obs./m, photoelectric smoke detector has two integral LEDs. A green LED, which flashes regularly to indicate normal quiescent state operation and a red LED which, flashes regularly when the smoke detector is in the alarm state. When the smoke detector enters into an alarm state, acknowledgment of the alarm state and resetting of the CIE is required to return the smoke detector to its quiescent state.

The smoke detector sensitivity threshold can be programmed for five different smoke sensitivity levels at the CIE.

Technical specification

The following details are a representative extract of the technical specification for the EST, Model SIGA-PS, nom. sens. (S)=10% obs./m, photoelectric smoke 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 - 19.95 Vdc
Normal operating current:	45 μ A
Alarm current:	45 μ A
Standalone alarm current:	18 mA
Air velocity range:	0 - 25.39 m/s
Operating temperature range:	0 - 49°C
Operating humidity range:	0 - 93 % RH, non-condensating
Storage temperature range:	-20 - 60°C
Construction & finish:	high impact engineering polymer, white
Maximum distance from ceiling:	305 mm (for wall mounted position).
Non-volatile memory:	serial number, device type and job number programmed into eeprom.
Electronic addressing:	addressable is programmable into eeprom.
Environmental compensation:	sensing element self-compensates for changes in the detector's installed environment to maintain the sensitivity setting.
Pre-alarm:	smoke detector can be programmed to store a pre-alarm sensitivity value (75% of the alarm setting).
Testing & maintenance:	each detector automatically identifies when it is dirty or defective and causes a "dirty detector" message.

EST, Model SIGA-SB base assembly:

The EST, Model SIGA-SB base assembly is a plain base assembly (it does not incorporate any electronic components) providing a mounting facility for the detector and a means of connection between the detector and the Control and Indicating Equipment (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.

Tested base designation	Base + detector circuit type
EST, Model SIGA-SB	Analogue Addressable