



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3392	5-Aug-2019	Number 1	Issue date 5-Aug-2019	30-Apr-2021

Page 1 of 2

Product designation

Guardian, Model SD70, 3 Vdc non-user replaceable (10 year) lithium battery powered, silencing/hush facility, photoelectric smoke alarm

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

Agent/distributor

Repelec Trade Solutions
16 Rayben Street, GLENDENNING, NSW, AUSTRALIA, 2761

Registrant

Siterwell Electronics Co., Limited
No. 666 Qingfeng Road, JIANGBEI DISTRICT, NINGBO, ZHEJIANG PROVINCE, CHINA, 315000

Producer

Siterwell Electronics Co., Limited
No. 666 Qingfeng Road, JIANGBEI DISTRICT, NINGBO, ZHEJIANG PROVINCE, CHINA, 315000

Conformance criteria and evaluation

The Guardian, Model SD70, 3 Vdc non-user replaceable (10 year) lithium battery powered, silencing/hush facility, photoelectric smoke alarm has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 3786:2014, 'Smoke alarms using scattered light, transmitted light or ionization' incl. Amdt 1 (27 August 2015).
2. CSIRO Technical Specification TS-007, Version 3: 15-Sep-2016, 'Evaluation for Conformity of smoke alarms to the requirements of AS 3786:2014'.

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.

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

Certificate num.	Registration date	Version		Valid until	Page 2 of 2
afp - 3392	5-Aug-2019	Number	Issue date	30-Apr-2021	
		1	5-Aug-2019		

Producer's description

The Guardian, Model SD70, 3 Vdc non-user replaceable (10 year) lithium battery powered, silencing/hush facility, photoelectric smoke alarm intended for use in domestic and residential dwellings. The battery is not user replaceable.

The smoke alarm operates according to the principle of light scattering. Inside the measuring chamber, which is protected against external light by a black plastic labyrinth, a light emitter and a light receiver are mounted so that no direct light from the emitter can reach the receiver while aerosol is absent in the chamber.

If smoke particles enter the measuring chamber, the light pulse from the light emitter will be scattered by the smoke particles and can thus reach the light receiver. The electronics assess the light incidence and will activate an alarm (both visual and audible) if a predetermined threshold value is exceeded.

This unit is circular in shape and is approximately 70 mm diameter with a height of 30 mm.

Technical specification

The following details are a representative extract of the technical specification for the Guardian, Model SD70, 3 Vdc non-user replaceable (10 year) lithium battery powered, silencing/hush facility, photoelectric smoke alarm 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		Description
Type	Ident.	
Model	SD70	Photoelectric smoke alarm

Schedule of properties/characteristics

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

Sensor	Photoelectric	
Power	Built-in 3 Vdc (CR123A) Lithium battery (battery not replaceable)	
Operation current	< 8uA (standby)	
	< 70mA (alarm)	
Alarm volume	85 dB(A) at 3 meters	
Alarm sensitivity	0.115 - 0.181 dB/m	
Silence time	approx. 10 minutes	
Smoke alarm device sound pattern:	ISO 8201	
Dimensions (approx.)	Diameter	70 mm
	Height	30 mm

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	XF3336/R1	Evaluation for Conformity of the Guardian Model SD70 Photoelectric Smoke Alarm to the requirements of AS 3786:2014 +A1:2015	25-Jun-2019	CSIRO, Fire Systems Laboratory, AU
Instruction sheet	-	Guardian MODEL SD70 PHOTOELECTRIC SMOKE ALARM WITH 10 YEAR LITHIUM BATTERY	12-Jun-2019	Repelec Trade Solutions, AU