



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3154</b>	11-May-2017	Number 10	Issue date 29-Apr-2026	30-Apr-2027

## Product designation

**Brooks, Model EIB146RC, 240 Vac powered with 9 Vdc battery backup, interconnectable, silencing/hush facility, photoelectric smoke alarm**

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

## Agent/distributor

Brooks Australia Pty  
4 Pike Street, RYDALMERE, NSW, AUSTRALIA, 2116

## Registrant

Brooks Australia Pty  
4 Pike Street, RYDALMERE, NSW, AUSTRALIA, 2116

### Producer

Ei Electronics  
SHANNON, CO. CLARE, IRELAND

## Conformance criteria and evaluation

The Brooks, Model EIB146RC, 240 Vac powered with 9 Vdc battery backup, interconnectable, 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

Kai Loh  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

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Page 2 of 3

## Producer's description

The Brooks, Model EIB146RC, 240 Vac powered with 9 Vdc battery backup, interconnectable, silencing/hush facility, photoelectric smoke alarm is a multiple station externally energized photoelectric smoke alarm with user replaceable stand-by battery. The smoke alarm is intended for use in residential dwellings.

The smoke alarm is designed for mains power (230/240 Vac 50 Hz) operation and has a user replaceable 9 volt alkaline battery as the stand-by power supply. Access to the stand-by battery requires removal of the smoke alarm from its mounting base. Removal of the smoke alarm from its mounting base also disconnects mains power to the smoke alarm. Indication that the stand-by battery is at the end of its service life is provided by a brief sound (fault signal) from the peizo-sounder, approximately once every 40 seconds. This fault signal is given for a period of at least 7 days.

The smoke alarm operates by the sounding of a peizo-sounder that provides an audible alarm signal when the smoke alarm senses smoke which exceeds the pre-determined alarm level threshold. When the smoke level drops below the alarm threshold level, the peizo-sounder is de-energized. A self-test facility is provided by means of a test button that electrically simulates the presence of smoke. When the test button is depressed, an alarm signal is emitted until the test button is released.

Additional features of this product include an interconnection feature for connection to up to 12 other compatible units. Installation of the smoke alarm is achieved by placement of the smoke alarm onto a dedicated mounting base that contains the electrical termination facility.

The smoke alarm is approximately 150 mm in diameter and has a height of approximately 50 mm when connected to its mounting base.

## Technical specification

The following details are a representative extract of the technical specification for the Brooks, Model EIB146RC, 240 Vac powered with 9 Vdc battery backup, interconnectable, 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 properties/characteristics

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

Sensor:	Optical
Supply voltage	230 Vac, 50Hz
Battery back-up	9V Alkaline Replaceable
Button test:	Simulates the effect of smoke to check the chamber, electronics and horn.
Battery self check	The back-up battery is checked every 40 seconds and the unit beeps (followed by red LED flash) if it is degraded
Hush:	Silences nuisance alarm. Automatically resets after approximately 10 minutes
Alarm sound output:	85 db (minimum) at 3m
Normal operating and storage temperature:	0 to 40°C
Normal operating and storage humidity range:	15% to 95% Relative Humidity – non condensing
Hardwire interconnect:	Interconnect up to 12 alarms and remote control devices
Dimensions:	150 mm (diameter) x 55 mm (height)
Weight:	410 grams (incl. packaging)
Warranty:	5 year (limited) warranty

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Page 3 of 3

## 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	XF3086/R1	Evaluation for Conformity of the Brooks Model EIB146RC Photoelectric Smoke Alarm and EIB141RC Ionisation Smoke Alarm to the requirements of AS 3786:2014 +A1:2015	10-Apr-2017	CSIRO, Fire Systems Laboratory, AU
P/N	B18866 Rev 0	Instruction Manual EIB140RC Series 230V~ SMOKE & HEAT ALARMS with Alkaline Battery Backup	8-Dec-2016	Brooks Australia Pty Ltd, AU
Data Sheet	Ei146RC Data Sheet R1	Brooks Data Sheet EIB146RC - Photoelectric Smoke Alarm	5-May-2017	