



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1792	14-Dec-2005	Number 20	Issue date 10-Apr-2024	30-Apr-2025

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Product designation

EI Electronics, Model EIB 181I, 12 Vdc externally powered with 9 Vdc battery backup, silencing/hush facility, interconnectable, ionisation smoke alarm

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

Agent/distributor

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

Registrant

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

Producer

Ei Electronics
SHANNON, CO. CLARE, IRELAND

Conformance criteria and evaluation

The EI Electronics, Model EIB 181I, 12 Vdc externally powered with 9 Vdc battery backup, silencing/hush facility, interconnectable, ionisation smoke alarm has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 3786-1993, 'Smoke alarms' incl. Amdt 1 (April 1995) / Amdt 2 (December 1995) / Amdt 3 (9 November 2001) / Amdt 4 (22 April 2004).

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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Producer's description

The EI Electronics, Model EIB 181I, 12 Vdc externally powered with 9 Vdc battery backup, silencing/hush facility, interconnectable, ionisation smoke alarm is a multiple station, externally energised unit with user replaceable 9Vdc stand-by battery. The smoke alarm is intended for use in residential dwellings. The smoke alarm is designed for 12 Vdc operation from an external power source, typically a security control panel, 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, which also disconnects the 12 Vdc external supply. Indication that the stand-by battery is at the end of its service life is provided by a brief sound (fault signal) from the piezo sounder, approximately once every 40 seconds.

The smoke alarm operates by sounding a piezo 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 piezo 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 the smoke alarm include an interconnection feature for connection to up to 19 other compatible Brooks smoke and heat alarms. Installation of the smoke alarm is achieved by the placement of the smoke alarm onto a dedicated mounting base. This base also contains an alarm relay output, interconnection and 12 Vdc supply terminations.

The smoke alarm is approximately 145 mm diameter and has a height of 65 mm when connected to its mounting base. The smoke alarm is supplied with the mounting base, mounting screws and anchors, 9 Vdc stand-by battery and owner's manual.

Technical specification

The following details are a representative extract of the technical specification for the EI Electronics, Model EIB 181I, 12 Vdc externally powered with 9 Vdc battery backup, silencing/hush facility, interconnectable, ionisation smoke alarm and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Ambient temperature range:	5°C to 45°C
Power supply:	10.5 to 15 Vdc
Interconnection facility:	Up to 20 compatible Brooks smoke and heat alarms
Status indicators:	
Green LED:	Normal operation (LED steady)
Red LED:	Flashes on Alarm
Dimensions:	145 mm diameter, 65 mm high (on mounting base)
Recommended batteries:	Duracell MN1604, Eveready 522 or Energizer 6LR61
Test and hush button:	Combined test/hush button provided on cover of alarm
Radiation source:	Americium 241, 0.9 µCi.