



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3660	3-Feb-2022	Number 8	Issue date 22-Apr-2026	30-Apr-2027

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Product designation

Emerald Alarms, Model EP-HYB-240-10, 240 Vac powered, fixed (non-replaceable) 10 year lithium battery backup, silencing/hush facility, interconnectable (wired or wireless option), photoelectric smoke alarm

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

Agent/distributor

Emerald Alarms Pty Ltd
20 Kikuyu Road, CHEVALLUM, QLD, AUSTRALIA, 4555

Conformance criteria and evaluation

The Emerald Alarms, Model EP-HYB-240-10, 240 Vac powered, fixed (non-replaceable) 10 year lithium battery backup, silencing/hush facility, interconnectable (wired or wireless option), 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) / Amdt 2 (30 October 2018).
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

Kaj Loh

Executive Officer – ActivFire Scheme



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Producer's description

The Emerald Alarms, Model EP-HYB-240-10, 240 Vac powered, fixed (non-replaceable) 10 year lithium battery backup, silencing/hush facility, interconnectable (wired or wireless option), photoelectric smoke alarm is low profile, circular styled, powered with 3Vdc lithium battery and intended for use in residential dwellings. The battery is not user replaceable.

An electric buzzer/horn provides an audible alarm signal when the smoke alarm senses smoke which exceeds a predetermined level. When the smoke level drops below the alarm level, the buzzer/horn is de-energised.

A self-test facility is provided by means of a button. If the button is depressed an alarm signal is emitted.

This equipment also incorporates a 'hush button'. Pressing the hush button reduces the smoke sensitivity of the smoke alarm. The sensitivity is reduced for approximately 8 minutes, at which time the smoke alarm automatically returns to normal operation.

It can be interconnected with other alarms, using hard wired and/or wireless radio frequency communication. When interconnected, one smoke alarm entering the alarm state will result in all interconnected devices operate their piezo sounders. The maximum number of hard-wired interconnected alarms is 24 units and wireless interconnection is 40 units.

The Emerald Alarms, Model EP-HYB-240-10, 240 Vac powered, fixed (non-replaceable) 10 year lithium battery backup, silencing/hush facility, interconnectable (wired or wireless option), photoelectric smoke alarm is circular in shape. It is approximately 140 mm diameter with a height of 44 mm.

Technical specification

The following details are a representative extract of the technical specification for the emerald alarms, Model EP-HYB-240-10, 240 Vac powered, fixed (non-replaceable) 10 year lithium battery backup, silencing/hush facility, interconnectable (wired or wireless option), 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	EP-HYB-240-10	Wired and wireless interconnect smoke alarm unit

Schedule of properties/characteristics

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

Smoke sensing type:	Type A photoelectric
Main power source:	240 V mains
Standby power:	3 V battery (not replaceable and not rechargeable)
Battery list:	CR17450
Interconnectivity:	Wired (up to 24 devices) and wireless (up to 40 devices)
Operating temperature range:	0 °C to 40 °C
Operating humidity range:	0% to 93% RH
Alarm sound level:	85 dB at 3 metres minimum
Alarm condition:	Audible signal pattern (ISO 8201)
Silencing function:	Yes
Dimensions:	Ø140 mm × 44 mm (h)
Fixing method:	Screw fixing
Mounting method:	Ceiling and wall

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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.			
Letter	CSBA0118 Zhejiang 240619-01	Verification and Validation of Packaging, Labelling and Manual Updates for Emerald Alarm Models	20-Jun-2024	CSIRO, Fire Systems Laboratory, AU
Report	XF3524/R2	Evaluation for Conformity of Emerald Alarms Model EP-HYB-24-10 Photoelectric Smoke Alarms to the requirements of AS 3786:2014 +A1 +A2	14-Jan-2022	CSIRO, Fire Systems Laboratory, AU
Document	EP-HYB-24-10-user manual User manual.pdf	Emerald Alarms Smoke Alarm User Manual Model Number: EP-HYB-240-10 (EP-HYB-240-10-user manual.pdf)	10-Dec-2021	Emerald Alarms Pty Ltd, AU