



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3640	14-Oct-2021	Number 5	Issue date 28-Jun-2024	30-Apr-2025

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Product designation

Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, photoelectric smoke alarm

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

Agent/distributor

Red Smoke Alarms
35 Hi-Tech Drive, KUNDA PARK, QLD, AUSTRALIA, 4556

Registrant

Red Smoke Alarms IP Pty Ltd
35 Hi-Tech Drive, KUNDA PARK, QLD, AUSTRALIA, 4556

Conformance criteria and evaluation

The Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, 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).

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



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Producer's description

The Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, photoelectric smoke alarm is an externally energized photoelectric smoke alarm. The smoke alarm's primary power supply is an external 230 Vac supply. The smoke alarm includes a standby power supply from non-user replaceable rechargeable lithium battery.

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.

The Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, photoelectric smoke alarm also incorporates a 'hush button' feature. According to the manufacturer's instructions, pressing the hush button reduces the smoke sensitivity of the smoke alarm. The sensitivity is reduced for approximately 10 minutes, at which time the smoke alarm automatically returns to normal operation.

The Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, photoelectric smoke alarm is fitted with wired and an optional wireless communication interface. It can be interconnected up to a maximum of 40 devices (wired: 20 alarms maximum; wireless: 20 alarms maximum).

The Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, photoelectric smoke alarm is circular in shape. It is approximately 140 mm diameter with a height of 55 mm.

Technical specification

The following details are a representative extract of the technical specification for the Red Smoke Alarms, R240RC series, 230 Vac powered with rechargeable battery backup, test/hush facility, wired and wireless (with optional RWB/RWB2 base) interconnectable, 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			
Type	Ident.	Assembly description	Interconnection
Model	R240RC	Smoke alarm unit (white)	Wired interconnection on smoke alarm unit
	RWB	Optional wireless base (white)	Wireless interconnection
	RWB2	Optional wireless base with 3 V lithium battery(white)	Wireless interconnection
	R240RCB	Smoke alarm unit (black)	Wired interconnection on smoke alarm unit
	RWBB	Optional wireless base (black)	Wireless interconnection

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 (contains no radioactive material)
Main power source:	220-240 V a.c., 50 Hz mains
Standby power:	3 V lithium battery (not replaceable and rechargeable)
RWB power source:	220-240 V a.c., 50 Hz mains
RWB standby power	9 V carbon zinc / alkaline battery (not replaceable and rechargeable)
RWB2 power source:	220-240 V a.c., 50 Hz mains
RWB2 standby power	3 V lithium battery (replaceable and not rechargeable)
Interconnectivity:	40 alarms for wireless (with optional RWB/RWB2 base) 40 alarms wired over 150 metres maximum
Operating temperature range:	0 °C to 45 °C
Operating humidity range:	5% to 95% RH
Alarm sound level:	85 dB at 3 metres minimum
Alarm condition:	Audible signal pattern (ISO 8201)
Silencing function:	Yes
Dimensions:	Ø140 mm × 55 mm (h)
Fixing method:	Screw fixing
Mounting method:	Celling 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.			
Report	CSBA0076/R2	Evaluation for Conformity of the Red Smoke Alarms Models R240 and R240RC Photoelectric Smoke Alarms to the requirements of AS 3786-2014 +A1 +A2	20-Jun-2024	CSIRO, Fire Systems Laboratory, AU
	CSBA0023/R1	Evaluation for Conformity of Red Smoke Alarms, R Series Photoelectric Smoke Alarms to the requirements of AS 3786:2014 +A1:2015 +A2:2018	30-Sep-2021	
Certificate of conformity	UL-AU-200002	UL-AU Certificate Certificate No.: UL-AU-20002 Date of Issue: 2020-05-08 Certificate Holder: Red Smoke Alarms IP Pty Ltd Certified Product Description: Residential Smoke Alarm Model(s): R240RC; R240RCB; R240; R240B; R10RF; R10RFB; R10; R9 (UL Cert_AS3786_R240RC_R240RCB_R240_R240B_R10RF_R10RFB_R10_R9-Approval.pdf)	27-Apr-2022	UL International New Zealand Ltd, NZ
Extract	AUBA.S36341	AUBA.S36341 – AS 3786: Smoke Alarm Devices (ul_w3_AUBA.S36341.AS 3786SmokeAlarmDevices_20230215.pdf)	15-Feb-2023	UL Product IQ™
Doc.ref.	MNPRG26X175A0	Installation Instructions red Smoke Alarms, SMOKE ALARM R240RC 240 V a.c. Mains Power Photoelectric Smoke Alarm with Rechargeable Battery Backup [4789413049.1A - Model R240RC - ILL 1.pdf]	31-Mar-2020	Red Smoke Alarms, AU
	MNPRGRFB175A0	Installation Instructions red Smoke Alarms MOUNTING BASE RWB Smoke Alarm Mounting Base with Wireless Interconnection, [4789413049.1A - Model R240RC - ILL 11.pdf]	16-Mar-2020	
	RWB2 manual.pdf	red Smoke Alarms Instruction Manual Mode: RWB2 (RWB2 manual.pdf)	9-Oct-2023	