



Certificate of Conformity

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Product designation

HPM, Cat 645/1SB, 240 Vac powered, 9 Vdc battery backup, interconnectable, silencing/hush facility, ionisation smoke alarm

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

Agent/distributor

HPM Legrand
Nexus Industry Park, Building 4, 43-47 Lyn Parade, PRESTONS, NSW, AUSTRALIA, 2170

Registrant

HPM Legrand
Nexus Industry Park, Building 4, 43-47 Lyn Parade, PRESTONS, NSW, AUSTRALIA, 2170

Producer

UTC Fyrnetics
Rongwen Road 1, No. 3 Industrial Estate, ChangAn, DONG GUAN, GUANG DONG PROVINCE, CHINA, 523842

Conformance criteria and evaluation

The HPM, Cat 645/1SB, 240 Vac powered, 9 Vdc battery backup, interconnectable, silencing/hush facility, 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.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Installation and maintenance as recommended by the manufacturer of the product.
- ii. Installation and maintenance of accessories (i.e. Lifesaver, Model LIFTHP/C) as recommended by the manufacturer of the product.

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



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Producer's description

The HPM, Cat 645/1SB, 240 Vac powered, 9 Vdc battery backup, interconnectable, silencing/hush facility, ionisation smoke alarm is intended for use in residential dwellings.

The smoke alarm comprises plastic mouldings, two printed circuit board (PCB) assemblies and a hinged plastic mounting plate. The pcb assembly comprises of electronic components including a mains power indicator (green LED), an alarm indicator (red LED), ionization chamber, sounder and connecting facilities for the standby battery and mains power.

The smoke alarm includes one PCB assembly that clips onto a base moulding. The base moulding incorporates a separate battery compartment for the stand-by battery. A cover moulding clips onto the base moulding and incorporates a centrally located 'silencing/hush' button and a separate 'test' button and a series of slots in the vicinity of the sounder position. The smoke alarm mounting plate is hinged to the base moulding. The mounting plate has an integral terminal block that is used for mains power and interconnection. The smoke alarm can be slid off the mounting plate; this action breaks the mains power connection and enables user replacement of the 9 Vdc stand-by battery.

The smoke alarm piezo-sounder provides an audible alarm signal and an integral red LED flashes rapidly then becomes permanently lit when the smoke alarm senses smoke in excess of the pre-determined alarm level of the unit. The sensitivity of the smoke alarm is set at the point of manufacture. The piezo-sounder drops out of operation when the particles of combustion within the sensing chamber drop below the alarm level.

The 'test' facility electronically simulates the presence of smoke. When the button is depressed an alarm signal is emitted from the piezo-sounder until the button is released. The mains power green LED is permanently lit when the smoke alarm is connected to mains power. In the alarm state, a DC voltage will be present on the interconnect line and this will cause all interconnected smoke alarms to sound an alarm state.

The smoke alarm is approximately 128 mm in diameter and is approximately 48 mm high.

The smoke alarm comes in a box carton and is supplied with two mounting screws, 9 Vdc stand-by battery and owner's manual.

Technical specification

The following details are a representative extract of the technical specification for the HPM, Cat 645/1SB, 240 Vac powered, 9 Vdc battery backup, interconnectable, silencing/hush facility, 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.

Electrical

Externally energised	240 Vac 50 Hz, 80 mA per alarm
Standby battery	Duracell MX1604 (v (6LR61).
Replacement battery	Eveready Energiser No. 522 Duracell MN1604, MX1604
Operating temperature	5°C to 45 °C.

Features

Ionisation source details	Americium 241
Interconnection	Up to 24 alarms may be interconnected, maximum wiring length is 250 m.
Status indicator LED	Red - flashing approximately every 40 seconds indicates stand-by (normal) operation. Red - latched indicates alarm state of originating smoke alarm. Interconnected smoke alarms will sound but LED will not be latched. Green - steady indicates that mains power is connected.
Hush feature	Temporarily silences smoke alarm for approximately 5 minutes. During this silence period, the alarm will "chirp" intermittently for approximately 5 minutes.
Low battery chirp	At low battery voltage, a short chirp at approximately 40 second intervals. The red LED also continues to flash at approximately 40 second intervals for a minimum of 7 days.

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Supplementary information

Supplementary evaluation for conformity of this product has verified conformance with the reference criteria (standard) when connected to the following device.

1. Lifesaver, Model LIFTHP/C, Remote test and hush plate and card.

Notes:

- a. This device is supplied as a separate accessory and enables convenient testing and silencing of a smoke alarm, or series of interconnected smoke alarms, installed in "hard-to-reach" locations.
- b. Additional remote test and hush cards (Lifesaver, Model LIFTHC) are required for each interconnected smoke alarm.