



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3817	5-Jun-2023	Number 2	Issue date 14-Jun-2023	30-Apr-2024

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Product designation

Hochiki, CHQ-MRC2 series, mains relay controller

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

Agent/distributor

Hochiki Australia Pty Ltd
391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

Registrant

Hochiki Australia Pty Ltd
391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

Producer

Hochiki Europe (U.K.) Ltd
Grosvenor Road, Gillingham Business Park, GILLINGHAM, KENT, UNITED KINGDOM, ME8 0SA

Conformance criteria and evaluation

The Hochiki, CHQ-MRC2 series, mains relay controller has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.17:2015, 'Fire detection and alarm systems - Part 17: Short-circuit isolators'.
2. Australian Standard AS ISO 7240.18:2015, 'Fire detection and alarm systems - Part 18: Input/output devices'.

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. This product is specified by the Producer for connection and use only with Fire Detection Control and Indicating Equipment (FDCIE) produced and designated as follows.
 - Kidde Australia Pty Ltd: NFP1, NFP2, Phoenix, FIRENET
 - Kentec Electronics Ltd: Taktis, Syncro AS

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 Hochiki, CHQ-MRC2 series, mains relay controller, consists of the CHQ-MRC2(SCI) module and the CHQ-MRC2/DIN(SCI) module. The modules provide a single, mains-rated relay output for the control of devices such as dampers, extractors or plant and equipment shutdown. The monitored input can be used for local power supply fault monitoring or as a general-purpose input.

The CHQ-MRC2(SCI) module is supplied as a "Smart Fix" module as two individual components, the back plate including PCB and opaque lid.

The address of the CHQ-MRC2(SCI) module is set using the first seven switches of the 8-bit DIL switch, which is located under the cut-out of the PCB cover.

The CHQ-MRC2(SCI) module includes an integral short circuit isolator and is classified as a type A short-circuit isolating device.

The CHQ-MRC2(SCI) module is to be mounted within in an IP65-rated polycarbonate (or similar) enclosure, with the total mass of enclosure and module exceeding 4.75 kg.

The CHQ-MRC2/DIN(SCI) module is substantially similar to the CHQ-MRC2(SCI) module except that it is housed in a protective enclosure suitable for installation to standard "Top Hat" DIN rails.

Technical specification

The following details are a representative extract of the technical specification for the Hochiki, CHQ-MRC2 series, mains relay controller 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.

Type	Variant	Description
	Ident.	
Model	CHQ-MRC2(SCI)	Mains relay controller module with protective enclosure.
	CHQ-MRC2/DIN(SCI)	Mains relay controller module with DIN rail mount.

Schedule of properties/characteristics

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

	CHQ-MRC2(SCI)	CHQ-MRC2/DIN(SCI)
Operating voltage:	17 – 41 Vd.c.	
Quiescent current:	300 µA	
Input ratings:		
Open circuit:	>100 kΩ	
Normal state:	10 kΩ	
Input activation:	470 Ω	
Short circuit:	< 50 Ω	
Relay contact rating:	48 Vdc maximum, 2 A (resistive) 250 Vac maximum, 5A (resistive)	
Operating temperature range:	-10 °C to 50 °C	
Storage temperature range:	-30 °C to 60 °C	
Max humidity:	95% RH non condensing	
Colour / Case material	White / ABS	Green / ABS
Dimensions – length × width × depth:	149 mm × 90 mm × 25 mm (with CHQ-LID)	119 mm × 102 mm × 24 mm
Weight:	133 g	114 g

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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	XF3105/R3	Evaluation for Conformity of the Hochiki, Model CHQ-MRC2(SCI) and CHQ-MRC2/DIN(SCI), Mains Relay Controllers to the requirements of AS ISO 7240.18:2015 and AS ISO 7240.17:2015	03-Apr-2019	CSIRO, Fire Systems Laboratory, AU
Specification	CHQ- MRC2(SCI)_HAU _Specification.pdf	ESPintelligent CHQ-MRC2(SCI) Analogue Mains Relay Controller ISS3 FEB22 (CHQ-MRC2(SCI)_HAU_Specification.pdf)	5-Jun-2023	Hochiki Australia Pty Ltd, AU