



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1718</b>	21-Jul-2005	Number 19	Issue date 19-May-2020	30-Apr-2021

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## Product designation

**Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector**  
(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Johnson Controls  
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

## Registrant

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

### Producer

Tyco Fire & Security Gmbh  
Victor von Bruns-Strasse 21, NEUHAUSEN AM RHEINFALL, SWITZERLAND, 8212

## Conformance criteria and evaluation

The Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.5-2004, 'Fire detection and alarm systems - Part 5: Point type heat detectors (ISO 7240-5:2003, MOD)'.
2. Australian Standard AS 7240.6:2017, 'Fire detection and alarm systems - Part 6: Carbon monoxide fire detectors using electro-chemical cells'.

## 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. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

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



# Schedule to Certificate of Conformity

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## Producer's description

The Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector forms part of the Tyco 614 series of plug-in detectors for ceiling mounting. The detector is intended for use on collective two-wire circuits on compatible control and indicating equipment.

The Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector incorporates a Class A1R rate of rise and static response element to detect fires characterised by a high rate of rise of temperature. Additionally, the sensitivity of the carbon monoxide detector is enhanced when a rapid rise in temperature is detected. These extra integrated detection modes allow the fire detector to be used in a wide variety of applications where combined risks mean that CO detection alone may be inadequate.

## Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Schedule of properties/characteristics

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

<b>Operating voltage:</b>	10 to 33 Vdc
<b>Quiescent current:</b>	70 $\mu$ A, typical
<b>Alarm current:</b>	5 mA to 85 mA (see note 1)
<b>Externally powered load:</b>	50 mA, 28 Vdc maximum
<b>Remote indicator:</b>	Vigilant E500 Mk2 series
<b>Ambient temperature:</b>	0 deg C to +50 deg C
<b>Relative humidity:</b>	15% to 90% continuous (non-condensing) 10% to 95% intermittent (non-condensing)

Note:

1. Alarm current must be externally limited.

### Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Base designation	Base + detector circuit type
Tyco, Model 4B	Collective
Tyco, Model 5B	
Minerva, Model MUB (M614)	

## 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	XF2935/R2	Evaluation for Conformity of the Tyco Model 614CH Collective Heat Enhanced Carbon Monoxide Fire Detector to the requirements of AS 7240.6:2017	8-Sep-2017	CSIRO, Fire Systems Laboratory, AU
Report number	XF2132/R1	Compliance assessment report Tyco model 614CH Carbon Monoxide (heat enhanced) fire detector to AS7240.5-2004	11-Oct-2005	CSIRO, Manufacturing & Infrastructure Technology, Scientific Services Laboratory, AU