



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2360</b>	15-Sep-2009	Number 11	Issue date 27-Apr-2019	30-Apr-2020

Page 1 of 3

## Product designation

**Tyco, Centaur™ II Cube, alarm signalling equipment**

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

## Agent/distributor

ADT Security  
13 Compark Circuit, MULGRAVE, VIC, AUSTRALIA, 3170

## Registrant

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

### Producer

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

## Conformance criteria and evaluation

The Tyco, Centaur™ II Cube, alarm signalling equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4428.6-1997, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Alarm signalling equipment'.

## 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. The ASE is connected to a compatible Control and Monitoring System (CMS).
- ii. The master ASE is powered by a 12 V or 24 V source evaluated to AS 4428.5 or AS 7240.4.
- iii. The ASE is installed and maintained as recommended by the manufacturer.

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

Certificate num.	Registration date	Version		Valid until	Page 2 of 3
<b>afp - 2360</b>	15-Sep-2009	Number 11	Issue date 27-Apr-2019	30-Apr-2020	

## Producer's description

The Tyco, Centaur™ II Cube, alarm signalling equipment (ASE) is used to transmit the fire alarm information from a building or group of buildings to a monitoring service provider and usually on to a fire brigade.

It can support up to 16 fire indicator panels (or sprinkler systems) that are connected to its Fire Alarm System (FAS) inputs or through Slave ASEs.

The ASE communicates with the control and monitoring system (CMS) using up to 3 different communication links: a radio modem based link (GPRS 2G or 3G supported), Ethernet, or a dialup PSTN line. The priority for each link can be programmed to suit the particular installation. For example, one site might have 3G radio as the primary link and PSTN as the backup, whereas another might have just Ethernet (using available ADSL or similar technology to communicate to the CMS) as the communication link.

This equipment can support two different CMS connections – a primary one generally radio modem, PSTN and Ethernet, and a secondary one on Ethernet. This allows the ASE to be monitored locally on Ethernet and centrally using a full CMS on radio and PSTN, for example. Each CMS connection operates independently with separate event queues and processing.

The ASE has front panel LEDs to display the status of many of its functions: power supply/battery, FAS inputs status and modes, communication links etc., as well as a RS232 port for more detailed information and to allow configuration of some local setup options. Note most of the configuration information for the ASE is provided over one of the communication links from the monitoring centre.

A master ASE can support up to 12 Slave ASEs on an RS485 bus. The setup and operation of the Slave ASEs is very similar to the Master ASE, except there is no radio modem, PSTN connection, or CMS connection via Ethernet.

The ASE supports a plug-in key to enable Isolate and Test modes via front panel pushbuttons.

The ASE includes a buzzer that sounds at the end of Test and Isolate modes when an alarm is present – so a user can reinsert the key and stop the transmission of the alarm condition.

## Technical specification

The following details are a representative extract of the technical specification for the Tyco, Centaur™ II Cube, alarm signalling equipment and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Trade brand	
Principal	Tyco/ADT
Model:	Centaur™ II Cube
Part numbers:	FP0974 (master)
	FP0972 (slave)
	FP0975 (slave)

### Specifications:

Electrical	Minimum	Typical	Maximum
<b>Supply voltage</b>	9.0 V	12 V / 24 V	30 V
Without Ethernet and two alarm system inputs configured as n/o.		35 mA @ 24 V 50 mA @ 12 V	
With Ethernet and two alarm system inputs configured as n/o		50 mA @ 24 V 70 mA @ 12 V	
<b>Peak current</b>			
Radio Transmitting		0.2 mA @ 24 V 0.3 mA @ 12 V	
<b>Power fail input</b>			
Fault level			1.5 V
Normal level	3.0 V		30 V
Input current			2 mA
<b>Alarm system inputs</b>			
Operating input voltage range	0.0 V	1.3 V	30 V
Input current @ 0 V			1.6 mA

# Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2360</b>	15-Sep-2009	Number 11	Issue date 27-Apr-2019	30-Apr-2020
				Page 3 of 3

Electrical	Minimum	Typical	Maximum
"Normal" current n/o		1.4 mA	
"Normal" current n/c		1.6 mA	
<b>Cable resistance</b> (alarm switch/relay to input)			30 Ω
<b>Open collector outputs</b>			
Output voltage @ 15mA; maximum 100 mA 1.0V			1.0 V
Off voltage			30 V
<b>Physical</b>			
Dimensions		110 mm (H) x 110 mm (W) x 60 mm (D)	
Weight		0.4 kg	
IP Rating of enclosure		IP30	
Colour		Red	
<b>Environmental</b>			
Temperature		-5°C to +45°C	
Humidity		0 to 95% RH (non-condensing)	