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Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until	Page 1 of 3
afp - 2456	29-Sep-2010	13	29-Apr-2021	30-Apr-2022	

Product designation

Tyco, Centaur™ II, 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, 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.

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
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Producer's description

The Tyco, Centaur™ II, 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, 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.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant				
Trade brand	**Model**	**Type**	**Ident.**	**Description**
Tyco/ADT	Centaur™ II	Part num.	FP0971	Master
			FP0972	Slave
			FP0975	Slave

Schedule of properties/characteristics

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

Electrical	**Minimum**	**Typical**	**Maximum**
Supply voltage	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	
Peak current			
Radio Transmitting		0.2 mA @ 24 V 0.3 mA @ 12 V	
Power fail input			
Fault level			1.5 V
Normal level	3.0 V		30 V
Input current			2 mA
Alarm system inputs			
Operating input voltage range	0.0 V	1.3 V	30 V

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Electrical	**Minimum**	**Typical**	**Maximum**
Input current @ 0 V			1.6 mA
"Normal" current n/o		1.4 mA	
"Normal" current n/c		1.6 mA	
Cable resistance (alarm switch/relay to input)			30 Ω
Open collector outputs			
Output voltage @ 15mA; maximum 100 mA 1.0V			1.0 V
Off voltage			30 V
Physical			
Dimensions		97 mm (H) x 171 mm (W) x 80 mm (D)	
Weight		0.4 kg	
IP Rating of enclosure		IP30	
Colour		Red	
Environmental			
Temperature		-5°C to +45°C	
Humidity		0 to 95% RH (non-condensing)	

Schedule of components and/or assemblies

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

Designation	**Module ident.**	**PCB reference**
Centaur II Main Board	1985-4 (PA1063)	Issue D Rev 4
Centaur II IO Board	1985-5-1 (PA1064)	Issue A Rev 1
Centaur II IO Board	1985-55-1 (PA1087)	Issue A Rev 1
Centaur II 3G IO Board	1985-69-2 (PA1107)	Issue A Rev 1

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference				
Ident. type	**Ident.**	**Title / description**	**Date issued** (or date validated)	**Source**
Report number	XF2543/R2	Tyco model Centaur II ASE to AS 4428.6-1997	9-Jun-2010	CSIRO, Materials Science and Engineering, Industrial Research Services, AU
	XF2627/R1	Conformity Evaluation of the Tyco Centaur II ASE, Centaur II Cube ASE, Centaur II Slave ASE and Centaur II Cube Slave ASE to the requirements of AS 4428.6-1997	11-Nov-2011	CSIRO, Materials Science and Engineering, Industrial Research Services, AU
Report	XF2979/R1	Evaluation for conformity of the Tyco FP0997 Centaur II Dual 3G Alarm Signalling Equipment to the requirements of AS 4428.6-1997	21-Apr-2016	CSIRO, Infrastructure Technologies, Fire Systems and Acoustics, AU