



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2360	15-Sep-2009	Number 2	Issue date 30-Jul-2010	31-Dec-2010

Product designation

Tyco, Centaur™ II Cube, alarm signalling equipment
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

ADT
47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

Registrant

Tyco Safety Products
17 Mary Muller Drive, CHRISTCHURCH, NEW ZEALAND, 8030

Producer

Tyco Safety Products
17 Mary Muller Drive, CHRISTCHURCH, NEW ZEALAND, 8030

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 used in conjunction with the Control and Monitoring System (CMS) of ADT Fire Monitoring.
- ii. The ASE is powered by any 12 V or 24 V source assessed 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

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Producer's description

The Tyco, Centaur™ II Cube, alarm signalling equipment (ASE) is used to transmit alarm, fault, isolate, and system status information from a customer's premises to one or more remote locations. These typically include the fire brigade, a monitoring centre, and/or a service contractor. The Cube ASE can choose between multiple communication paths to provide a high level of availability.

The Cube ASE can support up to 4 fire systems (fire alarm or sprinkler), each through a 2 wire connection to an Interface unit that connects to the alarm, fault and isolate relay contacts in the fire system. The line is supervised by the Cube ASE for open and short circuit wiring faults.

When a change of state is detected the Cube ASE transmits the new information to a programmed Control and Monitoring System (CMS) for display to operators and transmission on to the relevant parties. The Cube ASE supports up to 3 communication paths - wireless modem, Ethernet, and dial-up telephone line. Typically the wireless modem is used as the primary communications path and the telephone line is a backup. Each communications path is monitored for connectivity - fault indications are reported for a failure of each link.

The Cube ASE supports a plug-in key to enable Isolate and Test Modes via front panel pushbuttons. Isolate mode means the input changes of state are not acted on by the CMS, even though they are transmitted by the Cube ASE to the CMS. In Test mode input changes of state are acknowledged by the CMS to the Cube ASE LED indications so that a tester can see that the conditions have been transmitted and received by the CMS. Timeouts apply to the Test and Isolated modes if the key is left inserted.

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

The Cube ASE includes diagnostic functions to aid the installer and service person. A radio signal strength indication (RSSI) mode can be selected to show the signal strength and allow the installer to choose a suitable location for the aerial. By using a laptop computer and a special lead a service person can access detailed technical information about the Cube ASE's configuration and current status.

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 supplier's/manufacture's technical manual/data sheets.

Trade brand	
Principal	Tyco/ADT
Model:	Centaur™ II Cube
Part number:	FP0974

Specifications:

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
Input current @ 0 V			1.6 mA
"Normal" current n/o		1.4 mA	
"Normal" current n/c		1.6 mA	

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Electrical	Minimum	Typical	Maximum
Cable resistance (alarm switch/relay to input)			30 Ω
Open collector outputs			
Output voltage @ 15mA; maximum 100 mA			1.0 V
Off voltage			30 V
Physical			
Dimensions		110 mm (H) x 110 mm (W) x 60 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)	