



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
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Product designation

Cooper, Model CF3000, control and indicating equipment

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

Agent/distributor

Cooper Electrical Australia Pty Limited
205-209 Woodpark Road, SMITHFIELD, NSW, AUSTRALIA, 2164

Registrant

Cooper Electrical Australia Pty Limited
205-209 Woodpark Road, SMITHFIELD, NSW, AUSTRALIA, 2164

Producer

Cooper Fire
Wheatley Hall Road, DONCASTER, SOUTH YORKSHIRE, UNITED KINGDOM, DN2 4NB

Conformance criteria and evaluation

The Cooper, Model CF3000, control and indicating equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.2-2004, 'Fire detection and alarm systems - Control and indicating equipment (ISO 7240-2:2003, MOD)'.
2. Australian Standard AS 7240.4-2004, 'Fire detection and alarm systems - Power supply equipment (ISO 7240-4:2003, MOD)'.
3. Australian Standard AS 4428.3-2004, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire brigade panel'.

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 c.i.e. is mounted in the Australian enclosure as submitted for assessment,
- ii. The p.s.e. must be mounted in the same enclosure as the c.i.e.,
- iii. The c.i.e. is fitted with the labels as described in this report to meet the Marking requirements of Section 15 and Annex ZA of the Standards.
- iv. The c.i.e. is installed and maintained as recommended by the manufacturer.
- v. The maximum battery capacity is 11 Ah.

(Limitations/conditions of conformance continue)

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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.

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- vi. Short circuit isolators are required where the loop covers more than one zone.
- vii. The c.i.e. is limited to 96 zonal indicators.
- viii. Only suitable to be installed in normally occupied areas.
- ix. Compatibility of this equipment with new or existing actuating devices should be verified prior to installation.

Producer's description

The Cooper, Model CF3000, control and indicating equipment is intended for analog addressable detectors. It uses an alphanumeric touch screen display and LEDs to provide indication of the operating condition. The c.i.e. can be configured as a 1, 2 or 4 loop system.

The equipment can be fitted two loop driver cards. Each loop is capable of supporting 150 devices which could be assigned to a maximum of 96 zones.

The CF3000 c.i.e. is fitted with a power supply module. The cabinet includes space for batteries as the secondary power source.

The c.i.e. is made up from a number of main circuit boards detailed in section 0 below. These mount into the c.i.e. housing. The system also includes a range of field modules which have not been assessed in this report.

This equipment is approximately 495 (L) x 395 (H) x 180mm (D). Its operating environment is 0 °C to +40 °C, maximum 93% relative humidity (non-condensing).

Technical specification

The following details are a representative extract of the technical specification for the Cooper, Model CF3000, control and indicating 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 components

The following are schedules of validated components of the certified/listed the minimum system build for the Ampac, LoopSense, fire alarm control panel to conform with the requirements of the conformance criteria:

Panel Modules

Module	Description	PCB Reference
YPCB2153	DF6000 motherboard	PR200-04-2153 E
YPCB2148	DF6000 Loop Driver (V3.0.0) x 2	PR200-04-2148 G
	DF 6000 Display	PR200-04-2137 B
YPCB2145	DF 6000 LED Display BOM Rev 12	PR200-04-2145 E
	Touch screen display board	320240BX Rev.0
	Power supply	PR200-04-2147G

Software – loop driver V1.83.0
- Display V1.80.14

Indicators

The model CF3000 c.i.e. has an integrated Fire Brigade Panel. The following details the indicators on the submitted product sample with respect to their position on the fascia.

Indicators within AS 4428.3 Frame	Colour
Fire	Red
Fire Protection Equipment Activated	Red
Alarm Routing Equipment Activated	Red
Touch screen	-
Several Alarms	Red

Indicators outside AS 4428.3 Frame	Colour
Power ON	Green
Fire	Red
General Fault	Yellow
System Fault	Yellow
Power Fault	Yellow
Sounder Disable----	Yellow

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Indicators outside AS 4428.3 Frame	Colour
Fault	
System Disable	Yellow
System Test	Yellow
FRE Disable	Yellow
Fault	
Zones 1..96	Yellow

Controls

Controls within AS 4428.3 frame (FBP active mode)	Function
Alarms Queued	Scrolls through alarm queue
Silence Buzzer	Silence internal fault sounder. Also acknowledges any new alarms.
Silence Alarm Devices	Start/Stop sounder circuits.
Reset	Panel reset.
Disablement	Disables current point/zone in alarm

Controls within AS 4428.3 Frame (FBP inactive) @ access level 1	Function
Supervisor FRE off	Provides access to security key pad for Access level 2 and above
Keypad	Numbers 0 through 9, 'ok', ← and 'Cancel' touch screen buttons for entering information
Fires	Touch screen control to display fire alarms (note: fire brigade panel overrides this control)
Pre Alarms	Touch screen control to display Pre alarms
Faults	Touch screen control to display faults
Disabled/Test	Touch screen control to display disabled/test zones

The only control outside the FBP Frame is a 003 key that is used to switch between FBP "active" and "inactive" modes.

Optional Functions

This equipment has been evaluated to the optional functions listed in the tables below.

Optional Function with requirements	AS 7240.2 Clause	Evaluation
Output to fire alarm devices (item C in AS 7240.1)	7.8	Included
Output to fire alarm routing equipment (item E in AS 7240.1)	7.9	Included
Output to automatic fire alarm equipment (item G in AS 7240.1)	7.10	Included
Delays to outputs (annex E of AS 7240.2)	7.11	Included
Dependency on more than one alarm signal	7.12	Included (Type C only)
Alarm Counter	7.13	Included
Output of standard emergency evacuation signal	7.14	Not included
Supervisory signal condition	8	Not included
Fault signals from points	9.3	Not included
Total loss of the power supply	9.4	Not included
Output to fault warning routing equipment (item J in AS 7240.1)	9.9	Included
Disabled condition	10	Included
Disablement of addressable points	10.5	Included
Test condition	11	Included
Standardized I/O interface	12	Not included

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Optional Function with requirements	AS 7240.2 Clause	Evaluation
Impact (operational)	16.6	Included
Vibration (operational)	16.7	Included
Alarm Acknowledgement Facility	Annex ZB	Not included
Dry heat, steady state (operational)	Annex ZC	Not included
Ancillary control function	Annex ZD	Not included

Optional Function with requirements	AS 7240.4 Clause	Evaluation
Battery function check	5.5	Included
Impact (operational)	9.7	Included
Vibration (operational)	9.8	Included
Vibration (endurance)	9.11	Included
Dry heat, steady state (operational)	Annex ZC	Not included

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 number	XF2288/R1	Evaluation for Conformity Cooper Fire Systems model CF3000 c.i.e. to AS 7240.2 & AS 7240.4	May 2009	CSIRO, Materials Science and Engineering, Fire Systems, AU
	XF2288/R2	Evaluation for Conformity Cooper Fire Systems model CF3000 c.i.e. to AS 4428.3	May 2009	