

Certificate of Conformity

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Product designation

Chubb Fire Safety, Model NFP2, fire indicator panel

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

Agent/distributor

Chubb Fire & Security Pty Ltd
120 Silverwater Road, SILVERWATER, NSW, AUSTRALIA, 2128

Registrant

Chubb Fire & Security Pty Ltd
120 Silverwater Road, SILVERWATER, NSW, AUSTRALIA, 2128

Producer

Chubb Fire & Security Pty Ltd
120 Silverwater Road, SILVERWATER, NSW, AUSTRALIA, 2128

Conformance criteria and evaluation

The Chubb Fire Safety, Model NFP2, fire indicator panel has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4428.1-1998, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire'.

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. All screws holding the frame to the inside of the top front panel were fitted with star washers.
- ii. An extra earth strap was connected from the front panel stud to the frame as well.
- iii. Paint was scrapped from under the key - barrel nut on the bottom panel.
- iv. The chassis of the power supply was connected to the main cabinet by a short length of braid.
- v. A functional earth was connected from inside the rear panel to ground.
- vi. When the Alarm Acknowledgment Module (AAM), Model 005-951, is installed, the associated smoke detectors must be selected as non-latching, non-brigade alarm.
- vii. Compatibility of this fire indicator panel with detectors and base assemblies should be confirmed prior to installation.

Issued by



David Whittaker
Executive Officer – ActivFire Scheme



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Producer's description

The Chubb Fire Safety, Model NFP2, fire indicator panel is a microprocessor based distributed system fire indicator panel (FIP) which communicates with detector zones and control modules via a 2-wire fault tolerant loop with Hochiki GTP analogue system protocol. The FIP submitted for testing incorporated two loop controller Hochiki/Toned Amplifier (HOTO) and Display User Interface (DUI) which are the fundamental building blocks for expanding the system plus Power Supply Unit (PSU). Each loop has a capacity of up to 127 addressable devices which incorporate sensors and monitor/control modules. Internally the HOTO provides 6 outputs which can be used for example to initiate a fire suppression system, four monitored I/O for plant, bell, strobe circuit and two inputs. Internally the Display Unit Interface (DUI) has two monitored input and two monitored output circuits, two general inputs and two general outputs. An expansion board provides four circuits allowing a maximum of 32 conventional circuits per HOTO.

The fire indicator panel can be networked in either chain or hub topology. Each network can contain up to 32 cards and up to 32 networks can be supported in the hub topology and up to 5 if the networks are in series (chain).

The Addressable Digital Input / Output board (ADIO) communicates via an RS485 loop and can take up to 4 daughter boards. These daughter boards allow

- Connection of conventional circuits (8 per daughter board)
- Connection of dry Inputs (8 per daughter board)
- Connection of relay outputs (8 per daughter board)

Expansion boards can be connected to the ADIO that will allow further conventional circuits and/or input/output to be added. Each expansion board supports 4 daughter boards.

A derivative of the two loop HOTO board has also been developed that allows connections of the following Hochiki HRE protocol addressable devices

ALB-E	AMU-MBM	CHE-MLIG (CTX)
ATA-E	AMU-B2	LAM
AIA-E	AMU-C2	LACM
	AMU-A2A	CHJ
	AMU-A2D	

The Chubb Fire Safety, Model NFP2, fire indicator panel Firefighter Facility (FF) annunciates all point information on a back-lit (provided by 12 lamps) 320 X 240 pixel liquid crystal display (LCD). The 5 dynamic push button keys directly below the LCD display relate to the displayed items and the two push buttons to the left are Warn System Isolate and Ext. Bell Isolate. The Fire Fighter system indicators are Alarm, Fault, Isolate, Warn System Isolate, and Ext. Bell Isolate. Twelve user interface alpha-numeric keys and three push button keys for System Reset, Contrast and Sounder Silence are provided. The fire indicator panel also incorporates a key lock mechanism with three positions, Test, Locked & Active. The system indicators are:

Main Power	Main Fault	Bell Fault	Bell Active
Warning Trip	Warning Fault	Battery Fault	Plant Trip
Plant Isolate	Mute		

The fire indicator panel as assessed is a grade 2 control and indicating equipment.

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Technical specification

The following details are a representative extract of the technical specification for the Chubb Fire Safety, Model NFP2, fire indicator panel and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Switch mode power supply

Brand name:	X-O Electronic Services
Model number:	S-60-24
Nominal input voltage:	110 / 240 Vac
Rated power:	60W
Rated secondary voltage:	28.2 Vdc
Rated secondary current:	2.13 A
Circuit current limit:	2.25 A
Current limit rating (fuse):	3.2 A

Battery Charger:

Charge voltage setting:	27.6 Vdc
Current limit device rating:	0.5 A
Maximum battery charge current:	137 mA
Battery charger limits as specified	
Indicator settings (@23°C):	
Charger high:	28.2 V
Charger low:	26.2 V
Battery fail:	23.3 V
Nominal:	27.6 V

Panel:

Quiescent panel load:	0.76 A
Required battery capacity for 2 loops:	11 Ah
Manufacturers nominated battery capacity:	18 Ah

Alarm Acknowledgment Module:

Operating voltage:	24 - 32 Vdc
Maximum current:	50 mA
Address:	Seven segment dip switch