



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1156	2-Jul-1998	Number 16	Issue date 1-May-2019	30-Apr-2020

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Product designation

Notifier, Model AM2020, fire indicator panel

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

Agent/distributor

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

Notifier
12 Clintonville Road, NORTHFORD, CONNETICUTT, UNITED STATES, 06472

Conformance criteria and evaluation

The Notifier, Model AM2020, fire indicator panel has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.4-1987, 'Automatic fire detection and alarm systems - Control and indicating equipment' incl. Amdt 1 (June 1988) / Amdt 2 (October 1989).

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. A compatible communication protocol shall be used.
- ii. The maximum quiescent current drawn by the maximum number of activating devices shall not exceed the maximum rated loop/line current.
- iii. The maximum number of addressable devices on a loop/line shall not exceed the manufacturer's specified number allowed by the communication protocol.
- iv. The minimum operating voltage rating of the addressable device is less than or equal to the minimum operating voltage of the communication loop/line.
- v. The maximum rating of the addressable device shall be greater than the maximum operating voltage of the addressable loop/line current rating.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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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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(Limitations/conditions of conformance continue)

- vi. The current drawn by the maximum number of alarm LED's on at any time must not exceed the maximum loop/line current rating.
- vii. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

Producer's description

The Notifier, Model AM2020, fire indicator panel is microprocessor based equipment which communicates with detector zones and control modules via a single 4-wire fault tolerant loop. Each LIB-200 loop can interconnect a maximum of 198 addressable points, consisting of 99 sensors and 99 monitor/control modules. Internally the FIP's CPU board provides two sets of change over contacts for alarm and fault conditions. The Notifier, Model AM2020, fire indicator panel is expandable to ten loops

The Notifier, Model AM2020, fire indicator panel annunciates all point information on an internal LCD and remotely via the RS485 loop. A 30 membrane type keypad system in conjunction with a back-lit 2 line, 80 character liquid crystal display (LCD) and 5 LED indicators provide user access to the system. These include 25 alpha-numeric keys which incorporate 'Next/Prior', arrow keys and 4 keys for 'Acknowledge', 'Bell Isolate', 'System Reset', 'System Test' and 'Isolate'. The indicators include the following:

1. Power On
2. Alarm
3. Fault
4. Isolate
5. Bell Isolated

The FIP also communicates with an annunciator Control Station over a two-wire serial interface (via Display Interface Assembly).

The Alarm Acknowledgment Module (AAM), Model SOU-AAM, can be optionally fitted to the Notifier, Model AM2020, fire indicator panel. The SOU-AAM provides facilities which allow an initial local pre-alarm warning sounder in the Sole Occupancy Unit and a further facility to acknowledge the pre-alarm and initiate a time delay to investigate the cause of the pre-alarm.

Technical specification

The following details are a representative extract of the technical specification for the Notifier, Model AM2020, 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.

Input/Output modules specified as part of this product listing are detailed in the following table.

I/O module	Min-max (volts)	I _Q signal (μA)	I _A (mA)	Max devices per loop
Notifier, MMX-1	15-32	300	5.1	99
Notifier, MMX-2	15-32	300	5.1	99
Notifier, ISO-X	15-32	300	5.1	99
Notifier, CMX-2	15-32	300	5.1	99
Notifier, MMX 101/KR601	15-32	300	5.1	99

Note 1:

The maximum quiescent current drawn from the loop was 187 mA, at a loop voltage of 16 Vdc, as measured.

Note 2:

Based upon the manufacturer's given maximum loop current limit of 100 mA, the total number of devices per loop is 198 with no more than 99 sensors and 99 monitor/control modules. The maximum number of devices allowable in alarm or LED latched, is guided by the design and specification that is limited by the current limit of the loop.

The maximum loop/line resistance: 40 ohms

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Supplementary information

Evaluated modules

Tested modules	Assembly		PCB		Tech. drawing		Reference
	Num.	Rev.	Num.	Iss.	Num.	Iss.	
CPU	71003	N	03147	E	70003	I	XF1154/R1, May 1996
LIB-200	AM2020-LIB	O	03144	G	70000	J	AS 1603.4-1987 inc. amdt no.s 1 & 2.
MIB-W	3205	E	03237	C	-	-	
SIB	SIB-NET-PCA	G	03245	B	70456	C	
MPS	24AECPA	D	24-A-PCA	A	70367	G	
DIB	DIB-PCB	F	03232	A	70443	D	
ICA-4L (CPU Motherboard)	ICA-4LCPA	B					
Annunciator ACM-16AT (Remote Controller)	11352	H	03183	A	-	-	
LCD-80	LCD80 PCA	C	LCD80 PCA 03202	C			
ACM-8R	ACM-8R DCA	D					
SCS-8	SCS 8 PCA	B	03248	A			
Alarm Acknowledgment Module SOU-AAM	IF998	-	IF998	E	IF998	F	XF1685/R1, Mar 2001 SSL Test Specification FTS-136, V1.4

Eproms:

CPU2020, V1.01N

SIB-NET, Rev. 2.45

DIA 2020, V1.03N

Actuating devices:

Actuating device	Max. no. of devices allowed per MMX-2 (Remote module 3k9 Ω R ₀₀₁) AZF	Reference
Notifier, SD-651 p/e smoke detector	24	XF1154/R1, May 1996,
Notifier, CP-651 ionisation smoke detector	40*	AS 1603.4-1987 inc. amdt no.s 1 & 2.
System Sensor, 4451AUS, Type B heat detector	40*	
System Sensor, 5451AUS, Type heat detector	34*	
System Sensor, 1151, ionisation smoke detector	40*	
System Sensor, 2151, ionisation p/e detector	24	
<i>The above detectors with System Sensor B401 base assembly</i>		
Hochiki, SLK-A, p/e smoke detector	35	XF1154/R1, May 1996,
Hochiki, SIH-AM, ionisation smoke detector	35	AS 1603.4-1987 inc. amdt no.s 1 & 2
Hochiki, DFE-90D, Type D heat	40*	
Hochiki, DFE-60B, Type B heat detector	40*	
Hochiki, DCC-A Type A heat detector	40*	
Hochiki, DCC-C Type C heat detector	40*	
<i>The above detectors with Hochiki YBF-RL/4AHM LED or YBF-RL/4M LED base assy.</i>		
Hochiki, SPB-A, beam type smoke detector	40*	
Fire Sentry, SSA-AI Infra-red fire detector	40*	XF1154/R2, May 1996
Notifier, DH-400P, Duct Probe Smoke Detector	24	AS 1603.4-1987 inc. amdt nos. 1 & 2
Notifier, KR72/470, Manual Call Point	40*	

* Maximum number of detectors per AZF/AZC allowed by code.