



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 607</b>	12-Dec-1993	Number 12	Issue date 1-May-2018	30-Apr-2019

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## Product designation

**O'Donnell Griffin, Model MXL, control and indicating equipment**

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

## Agent/distributor

Tyco Fire Protection Products  
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

## Registrant

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

### Producer

Tyco Distribution  
34 Corporate Drive, Southgate Corporate Park, CANNON HILL, QLD, AUSTRALIA, 4170

## Conformance criteria and evaluation

The O'Donnell Griffin, Model MXL, control and indicating equipment 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'.

## 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. Compatibility of this equipment with new or existing actuating devices should be verified prior to installation.

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



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## Producer's description

The O'Donnell Griffin, Model MXL, control and indicating equipment is a software controlled fire Indicator panel (FIP) which communicates bi-directionally over a two wire loop. The conventional CZM-1 interface module requires two additional external power supply wires. The Main Control Board provides three sets of dry contacts. The main ALD-2 Analogue Loop Driver, mounted on the Main Control Board, Model MMB-1, can support a maximum of two analogue loops. A maximum of sixty addressable input/output devices are allowed on each loop. The output modules TRI-2, TRI-2r, and TRI-2D provide an interface to direct shorting contact inputs. Additional monitored and relay outputs are provided by the optional CSM-4 and CRM-4 fitted with the MON-4 Card Cage boards. The Alarm Acknowledgment Module (AAM), Model AAM1, can be optionally fitted to the O'Donnell Griffin, Model MXL, control and indicating equipment.

The control and display monitor incorporates a 2 line, 80 character alpha numeric display which annunciates individual alarms, valve tamper, fault, isolate, programming and maintenance information. The display also indicates power, charge, and battery status. A keypad system provides Acknowledge, Audible Silence, Reset, Next/First Display, Numeric, Cursor Control, Print, Help, and Clear keys for data entry and menu operations. A paper record of events is provided on the TSP-40 logging printer.

## Technical specification

The following details are a representative extract of the technical specification for the O'Donnell Griffin, Model MXL, 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.

### Specifications

**Mains supply voltage:** 240 Vac +6% - 10%  
**Mains supply frequency:** 50 Hz

### Power Supply

**Part number:** MMB-1  
**Nominal output voltage:** 24.0 Vdc  
**Maximum rated output current:** 6.5 Amps  
**Circuit current limit:** 8.08 Amps  
**Circuit limit fuse rating:** 8.0 Amps

### Battery Charger

**Charger voltage setting:** 27.58 Vdc  
**Circuit current limit (electronically):** 3 Amps  
**Current limit device rating:** 3 Amps

### Panel

**Quiescent panel load:** 1.09 Amps @ 27.96 Vdc  
**Minimum power supply load:** 1.4 Amps  
**Required battery capacity for 4 AZF's:** 26.86 A.H.  
**Manufacturer's nominated battery capacity:** 10 A.H.  
**Operating temperature:** 0°C to +40°C  
**Operating humidity:** 90% maximum  
**Analogue loop:** 2 wire - 100 Ohms maximum resistance  
60 maximum compatible devices per loop

### Alarm Acknowledgment Module

**Operating voltage:** 16 - 28 Vdc  
**Alarm current (LED on):** 15 mA maximum  
**Acknowledge current:** 25 mA maximum  
**Address:** Programmed using the FPI-32 Pyrotronics programmer

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## Supplementary information

### Evaluated modules

Module	Assembly number	PCB number	Tech drawing number	Reference
Main Board	MMB-1 Rev 0	580-1898-89 Iss 2	530-290-169 Iss 3	XB0644, May 1992
Display/Keyboard	MKB-1 Rev 0	ANN-1 580-1901-32	530-290-152 Iss 1	AS 1603:Part 4 - 1987
Analogue Loop Driver	ALD-2 Rev 0	580-19435-0 Iss 0	530-290-936 Iss 3	
Signal Module	CSM-4 Rev 6	580-190142 Iss 3	530-290-194 Iss 4	
Relay Module	CRM-4 Rev 3	580-190140 Iss 1	530-290-141 Iss 3	
Power Supply	MXL-03 Rev 0	(refer main board)		
Printer	TSP-40 Rev 0		530-290-527 Iss 0	
Conventional Zone Interface	CZM-1 Rev 0	580-19068 Iss 0	530-290619 Iss 2	
Batter Test Module	MXL-02 Rev 0	MXL-02 Iss 1		
I/O Contact Interface	TRI-2 Rev 1	580-190916 Iss 1	530-290481 Iss 5	
I/O Contact Interface	TRI-2R Rev 0	580-190479 Iss 0	530-290417 Iss 0	
Mother Board	MOM-4 Rev 0	580-190145 Iss 0	530-290144 Iss 1	
Alarm Acknowledgment Module	AAM1	AAM 1114d6	1119 Iss D1 OE4710 Iss 1	XF1639/R1, May 2000

### Eproms:

<b>Main Board</b> <u>ALD/2</u> Rev, 4-161/590463	MMB-1
<u>IC111</u> 161/591325 Version 2.10AUS 8-Feb-1992	<u>CRM-4</u> Rev 1.161-590 466 9/7/90
<u>MOM-4</u> CSM-4 Rev 1 ICI 2/61-590460	<u>Ald-2</u> Rev 2 161-590463

### Actuating devices

Device	Maximum number of devices allowed per AZF CZM-1	Reference
O'Donnell Griffin, DI-3 Smoke Ionisation	38	XB0644, May 1992
O'Donnell Griffin, ID-60IA Smoke Ionisation	40*	AS 1603:Part 4 - 1987
O'Donnell Griffin, ID-60P Smoke Photoelectric	40*	
O'Donnell Griffin, PE-3 Smoke Photoelectric	28	
<i>The above detectors with the O'Donnell Griffin DB-3 base</i>		
Olsen, FW81B Heat Type E	40*	XB0644, May 1992
Olsen, P29B Smoke with Z54B base	28	AS 1603:Part 4 - 1987
Olsen, R24BE Flame Infra-red	11	
Olsen, T54B Mk 5 Heat Type A	Not compatible	
Apollo Series 60, 55000-105AUS, Heat Type A	40*	XB1065, Apr 1993
Apollo Series 60, 55000-106AUS, Heat Type B	40*	
Apollo Series 60, 55000-107AUS, Heat Type C	40*	
Apollo Series 60, 55000-108AUS, Heat Type D	40*	
Apollo Series 60, 55000-204AUS, Smoke Ionisation	40*	
Apollo Series 60, 55000-310AUS, Smoke Photoelectric	40*	
<i>The above detectors with the Apollo 45681-200 base</i>		
Hochiki, DCD-A, Heat Type A	23	XF1252/R1, Feb 1998
Hochiki, DCD-C, Heat Type C	23	
Hochiki, DFJ-60B, Heat Type B	23	
Hochiki, DFJ-90D, Heat Type D	23	

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Device	Maximum number of devices allowed per AZF CZM-1	Reference
Hochiki, SIJ-ASN, Smoke Ionisation	19	
Hochiki, SLR-AS, Smoke Photoelectric	23	
<i>The above detectors with the Hochiki YBO-R/4A base</i>		
Minerva, Model MD614, Heat Type A & C	40*	XF1625/R1, Dec 1999
Minerva, Model MF614, Smoke Ionisation	29	
Minerva, Model MR614, Smoke Photoelectric	17	
Minerva, Model MU614, Carbon monoxide	17	
<i>The above detectors with the Minerva M614 base</i>		
Olsen, C24B Smoke Ionisation	40*	XB0942, Mar 1993
Olsen, C29B Smoke Ionisation	40*	
<i>The above detectors with the Olsen Z54B or Z55B base</i>		
Olsen, P24B Smoke Photoelectric with Olsen Z54B or Z55B base	20	XB0921, Aug 1992
Olsen, C24B Smoke Ionisation	40*	XB1246, Dec-1994
Olsen, C29B Smoke Ionisation	40*	
Olsen, P24B Smoke Photoelectric	40*	
<i>The above detectors with the Olsen Z56 base</i>		
Olsen, C29BEx Smoke Ionisation with Olsen Z54BEx base	40*	XB0666
Olsen, T56B Mk 5, Heat Type A, B, C or D	40*	XB1033, May-1992
<i>The above detectors with the Olsen Z54B, Z54B Mk 2 or Z55B base</i>		
Olsen, T56B Mk 5, Heat Type A, B, C or D with the Olsen Z56B base	40*	XB1246, Dec-1994

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