



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1686	29-Mar-2004	Number 15 (Provisional)	Issue date 1-May-2020	30-Apr-2021

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Product designation

Edwards, Model EST2, control and indicating equipment

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

Agent/distributor

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Registrant

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Producer

Edwards
8985 Town Center Parkway, BRADENTON, FL, UNITED STATES, 34202

Conformance criteria and evaluation

The Edwards, Model EST2, control and indicating equipment 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. The use of any other external circuits may invalidate the requirements of AS 4428.1-1998. The following external circuits have been EMC tested
 - Mains
 - 2-PPS/6A-220 Power Supply NAC 1 & 2 outputs
 - 2-LCX Signal A & Signal B
 - 2-MCM Signal A & Signal B
 - shielded RS485 CH0/CH1 Com channels.

(Limitations/conditions of conformance continue)

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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- ii. The following addressable SIGA loop modules are only to be used and installed inside manufacturers recommended metal enclosure:-
- IM CT1, CT2, CC1, CRR, CR, UM, MAB, MCC1, MCT2, MCR, UIO6 and UIO2.
- iii. The EST2 CIE earth to loop devices enclosures, mimic panel and 2- LSRA must be connected externally on the chassis as referenced in part 2.6 and setup photographs in EMC Technologies test report number M991149 dated 29/11/99 and 30/11/99.

Producer's description

The Edwards, Model EST2, control and indicating equipment is a microprocessor based fire indicator panel (FIP) configured as class I analog addressable system, which communicates serially with detector zones and control modules via a 2-wire fault tolerant loop. Each loop can accommodate up to 96 addressable detectors and 94 monitor/control modules allowing for the two loops a maximum of 380 addressable devices.

The Edwards EST2 SIGA-UM module allows for conventional detector circuits to be used on the loop and the following control/monitor points:-

SIGA-IM - Isolator Module
 SIGA -CT1- Single Input Module
 SIGA -CT2 - Dual Input Module
 SIGA-271 - Manual Call Point
 SIGA -CC1 - Single Input Signal Module
 SIGA -CC2 - Dual Input Signal Module
 SIGA -CRR - Polarity Reversal Relay Module
 SIGA CR - Control Relay Module
 SIGA -UM - Universal Module (AZF)
 SIGA-MAB - Universal Module (AZF) (requires SIGA-UIO Interface)
 SIGA -MCC1- Single Input Signal Module (require SIGA-UIO Interface)
 SIGA -MCC2- Dual Input Signal Module (require SIGA-UIO Interface)
 SIGA-MCT2 - Dual Input Signal Module (require SIGA-UIO Interface)
 SIGA-MCR- Control Relay Module (require SIGA-UIO Interface)
 SIGA-UIO6 - Universal Input/Output Module
 SIGA-UIO6R - Universal Input/Output Motherboard Module
 SIGA-UIO2 - Universal Input/Output Motherboard Module

Additional information may be provided by a remote LCD annunciator unit 2-LSRA and LED/Switch annunciator connected via an RS485 port. The RS232 port is a 4-wire loop for connection to a PC for monitoring and Upload/Download function.

Technical specification

The following details are a representative extract of the technical specification for the Edwards, Model EST2, 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.

Power supply:

Maker's name or trademark:	EST2
Maker's model or type:	2-PPS (6 A 220)
Rated supply voltage:	240 Vac
Rated frequency (Hz):	50 / 60 Hz
Rated power:	300 W
Certificate:	Austel (TS001)
Ambient temperature range:	23°C ±2°C
Nominal output voltage:	27.0 Vdc @ 40°C, 92% R.H.
Max. rated output current:	(4.0 A - I _{BAT})4.0 A
Current limit rating:	6.0 A (electronic)
Battery charger:	
Battery charge voltage setting:	27.0 Vdc

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Maximum rated output: 0.8 A
Current limit device rating: 6.0 A
Panel:
Quiescent panel load (I_Q): 0.33 A @27.0 V
Manufacturer's nominated battery capacity: 7.5 Ah

Supplementary information

Evaluated modules

Module description	Assembly number	Rev.	PCB number	Iss.	Tech. drawing number	Iss.
Main Controller Module (2-MCM) - Firmware: SLC 2.10 Beta - VER 1.00 17/3/00	130290	2.4	140290	E	-	
Expander Loop Module 2-LCX Firmware: SLC 2.10 Beta	130313	R	140313	C		
2-LCD Display Board						
2-LCD	HC 20401NY-LY		HC 20401-C			
*2-8RYS Annunciator & switch Board						
2-16y LED Annunciator Board						
2-PPS/6A-220 (Power Supply)						
2-LSRA	130409-02	6	140409	A		
SAN-CPU (Mimic) Firmware: SAN-CPU 190039 VER 0.5, CK=58F4, (U9)			140125	C		
SHO-4 (SAN)			140130	A		
SWU 8/3 (SAN)	240342	D	140190	A		
SWU-8 (SAN)	240136	E	140129			
SLU-16 (SAN)	240135	F	140128	A		
SRU-8 (SAN)	240138	C	140150			
SIN-16 (SAN)	240158	D	140137	A		
SDR-32 (SAN)	240181	D	140136	A		
Software V1.01 (U4)						

* Modified to meet functional requirement

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Compatible addressable devices to AS 4428.0

AZF module: Edwards SDC loop protocol

Device	Max addressable points on analogue loop	Max addressable point on analogue line	Reference
SIGA-UM (AZF Input)	47	40*	XF1549/R2, Jun.-2000
SIGA-IM - Isolator Module	96	40*	AS4428.1-1998
SIGA-CT1- Single Input Module	94	40*	
SIGA-CT2 - Dual Input Module	47	40*	
SIGA-271 - Manual Call Point	90	40*	
SIGA-CC1 - Single Input Signal Module	90	40*	
SIGA-CRR - Polarity Reversal Relay Module	94	40*	
SIGA CR - Control Relay Module	94	40*	
SIGA-MAB - Universal Module (AZF) (requires SIGA-UIO Interface)	47	40*	
SIGA-MCC1- Single Input Signal Module (require SIGA-UIO Interface)	94	40*	
SIGA-MCT2 - Dual Input Signal Module (require SIGA-UIO Interface)	47	40*	
SIGA-MCR- Control Relay Module (require SIGA-UIO Interface)	94	40*	
SIGA-CC2- Dual Input Signal Module	47	40*	
SIGA-MCC2- - Dual Input Signal Module	47	40*	
Edwards, SIGA-ISA, Smoke	96	40*	
Edwards, SIGA-PS, Smoke	96	40*	
Edwards, SIGA-IPHS, Combination Smoke & Heat	96	40*	
The above detectors with the Edwards SIGA-AB4, SIGA-SB, or SIGA-IB bases			

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