



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1337	31-May-2000	Number 14	Issue date 1-May-2019	30-Apr-2020

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Product designation

Cerberus AlgoRex®, Model CS1140, controller

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

Agent/distributor

Siemens Ltd.
885 Mountain Highway, BAYSWATER, VIC, AUSTRALIA, 3153

Registrant

Siemens Ltd.
885 Mountain Highway, BAYSWATER, VIC, AUSTRALIA, 3153

Producer

Siemens Building Technologies AG
Bellerivestrasse 36, ZURICH, SWITZERLAND, CH-8088

Conformance criteria and evaluation

The Cerberus AlgoRex®, Model CS1140, controller 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. 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 Cerberus AlgoRex®, Model CS1140, controller is a detector controller intended for interfacing between the Cerberus AlgoRex® Interactive detectors and a control and indicating equipment compliant with AS 1603:Part 4 - 1987 or AS 4428:Part 1 - 1998.

The Cerberus AlgoRex®, Model CS1140, controller incorporated three levels of communication that may be expandable up to a 15 D-Bus loop. The three levels of communication assessed were:

- (a) I-Bus - Internal data Bus communication between modules within the Controller.
- (b) C-Bus - A communication loop that is transformer-coupled and is used to control the networking of the AlgoRex® controller.
- (c) D-Bus - This communication is a one loop, two-wire redundant path system using the Cerberus protocol to communicate with the AlgoRex® Interactive detectors.

The control console is the control point of the Cerberus AlgoRex®, Model CS1140 controller. The console can only be operated after it has been enabled with a password or keylock switch. Text is displayed either in red (alarm) or yellow (status change) on an 8x40 character LCD. Acknowledgment and Reset keypads are provided together with a Function keypad for the controller services.

Technical specification

The following details are a representative extract of the technical specification for the Cerberus AlgoRex®, Model CS1140, controller and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Power supply

Model:	B2F020
Operation:	Switch Mode
Nominated output voltage:	29.0 V
Maximum rated output current:	4 A
Circuit current limit:	6.7 A
Current limit rating:	Electronic short circuit protected

Battery charger

Maximum rated output:	1.7 A
Current limit device rating:	6.3 A

Panel

Quiescent panel load:	0.31 A @ 29.0 V
Minimum power supply load:	0.7 A
Required battery capacity for 4 AZF:	7.74 AH
Manufacturer's nominated battery Capacity:	12 AH

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Supplementary information

Evaluated modules

Module description	Assembly number	Rev.	PCB number	Iss.	Reference
E3X101 processor board	E3X101-460200 IND	CC	460433	IB	XF1372/R2, Sep. 1998, AS 1603.4-1987 incl amdt 1 & 2
E3M070 line interface module	E3M070-460297 IND	AA	460420	B	
B3Q480 user interface display (Algo Pilot)	460310	DB	460404	IC	
B2F020 switch mode power supply (sealed package)	B2F020				
Z3B171 DC switching relay module	Z3B171				

Actuating devices

Device	Maximum number of devices allowed per AZF Cerberus loop protocol K51r	Reference
Cerberus AlgoRex®, DT1152, Heat Type A	40*	XF1372/R2, Sep. 1998,
Cerberus AlgoRex®, DO Series Smoke Photoelectric	40*	AS 1603.4-1987 incl amdt 1 & 2
Cerberus AlgoRex®, DOT Series Smoke Photoelectric	40*	

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