



Certificate of Conformity

| Certificate num. | Registration date | Version | Valid until | |
|-------------------|-------------------|-----------|-----------------------|-------------|
| afp - 1383 | 6-Feb-2001 | Number 13 | Issue date 1-May-2019 | 30-Apr-2020 |

Page 1 of 3

Product designation

Cerberus CS1140 AlgoRex®, Model CI1145, control and indicating equipment
(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 CS1140 AlgoRex®, Model CI1145, 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. 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



Schedule to Certificate of Conformity

| Certificate num. | Registration date | Version | | Valid until | Page 2 of 3 |
|-------------------|-------------------|--------------|--------------------------|-------------|-------------|
| afp - 1383 | 6-Feb-2001 | Number 13 | Issue date 1-May-2019 | 30-Apr-2020 | |

Producer's description

The Cerberus CS1140 AlgoRex®, Model CI1145, control and indicating equipment is a microprocessor based fire indicator panel (FIP) configured as a class 1 digital/analogue addressable system. The FIP which can be configured in modular fashion has been laid out as a building block system, depending upon the customer's requirements. Different numbers and types of modules can be combined to form a system. The Cerberus CS1140 AlgoRex®, Model CI1145, control and indicating equipment permits a geographically distributed system arrangement, equipment groups communicate via the external CIE bus (C-bus). Within the equipment group the subassemblies communicate with each other by means of the internal bus (I-bus).

The main processor board interfaces with different D-Bus lines cards to allow communication with either interactive (K3M071), Analogue Plus (K3M111) or Collective (K3M080) detectors. Detector and detector line sub-assemblies communicate with their corresponding detector line sub-assemblies through the external detector bus (D-bus). A maximum of 128 devices (Interactive or Analog Plus) are allowed per D-Bus loop with the total number not to exceed 512 devices on the main processor board.

The control and display function is grouped into two sections. A Fire Fighting Facility with LCD (8 x 40 characters) with an "Alarm" warning panel, Acknowledge and Reset buttons and a LED display field with command switches and function keypad for menu oriented operation.

Provision has been made in the cabinet for two back-up storage batteries.

Technical specification

The following details are a representative extract of the technical specification for the Cerberus CS1140 AlgoRex®, Model CI1145, 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:

| | |
|-------------------------------|-------------------------------------|
| Type: | ELBAT Switched Mode power Supply |
| Model: | B2F020 or SMP/LC180/30-CER-REV02 |
| Input voltage range: | 115 to 230 Vac +15, -20% |
| Rated frequency: | 47 to 53 Hz |
| Nominal output voltage: | 29.6 V @ 55°C |
| Maximum rated output current: | 4 A |
| Circuit current limit: | 6.3 A |
| Circuit current rating: | Electronic, short circuit protected |

Battery charger:

| | |
|------------------------------|-------------------|
| Voltage setting: | 27.8 V |
| Maximum rated output: | 1.17 A @ 23°C |
| Current limit device rating: | 6.3 A (fuses x 3) |

Panel

| | |
|--|----------------|
| Quiescent panel load: | 0.3 A @ 29.0 V |
| Minimum power supply load: | 0.465 A |
| Required battery capacity for 4 AZF's: | 7.43 Ah |
| Manufacturer's nominated battery capacity: | 6.5 Ah |

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| | | | | Page 3 of 3 |

Supplementary information

Evaluated modules

| Module description | Assembly number | Rev | PCB number | Iss | Technical drawing | Iss |
|--|--------------------|-----|----------------|-----|-------------------|-----|
| E3X120 processor board | K3X120 471-740-003 | 003 | GB3-511489B | B | S2-51142 | |
| K3M07 Interactive line Interface Module | K3M071 471-740-006 | 006 | GB3-511528A | B | S2-511447 | A |
| K3M111 Analogue Plus Line Interface | X3-511531 | A | GB3-511777A | A | S3-511531 | A |
| K3M080 collective line interface | 471-740-012 | | GB3-511612A | A | S2-510011 | 1 |
| B3Q480 user interface display (Algo Pilot) | 460310 | | 460404 | IC | | |
| B2F040 switch mode power supply (sealed package) | B2F040 | | | | B2F040 | |
| Z3B171 DC switching relay module | Z3B171 | | Type No. 95-63 | | | |

Eproms:

CIV00531

References:

XF1524/R2, August 2000, AS 1603.4-1987 inc. amdt 1 & 2.

Actuating devices

| Device | Max. addressable points on analogue loop | Max. addressable points on analogue line | Reference |
|--|--|--|---|
| Cerberus Algorex®, DO1151A, Smoke Photoelectric | 128 | 40* | XF1372/R2, September 1998 AS 1603.4-1987 inc. amdt 1 & 2 |
| Cerberus Algorex®, DO1152A, Smoke Photoelectric | 128 | 40* | |
| Cerberus Algorex®, DOT1151A, Smoke Neural | 128 | 40* | |
| Cerberus Algorex®, DOT1152A, Smoke Neural | 128 | 40* | |
| Cerberus Algorex®, DT1152A, Heat Type A | 128 | 40* | |
| <i>The above detectors with the Cerberus DB1151 base</i> | | | |

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