

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Fire Alarm Central Unit**with type designation(s)
Cerberus® PRO FC72x-Zx

Issued to

Siemens Schweiz AG
Zug, Switzerlandis found to comply with
DNV GL rules for classification – Ships**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Temperature B****Humidity B****Vibration A****EMC B****Enclosure Required protection according to the Rules shall be provided upon installation on board.**Issued at **Hamburg** on **2018-03-26**This Certificate is valid until **2023-03-25**.for **DNV GL**DNV GL local station: **Augsburg**Approval Engineer: **Heinz Scheffler**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Cerberus® PRO FC72x-Zx is a addressable fire alarm central unit

Hardware Components:

- Control and Indicating Equipment:
 - FC722ZA
 - FC722ZE
 - FC724ZA
 - FC724ZE
 - FT724 Fire Terminal with FN2001-A1 SafeDlink Network Module
 - FT2001-A1 Mimic Display Driver
- Power Supply:
 - SV-24V-150W with battery 2 x 26Ah, 12V
- Modules:
 - FCM7211-Y3 Add on with 48 LED
 - N2001-A1 SafeDlink Network Module
 - FCA2002-A1 RS485 Module
 - FCA2001-A1 RS232 Module
 - FCI2001-A1 Loop Extension Module;
 - FCA2005-A1 External Sounder Driver
 - FHA2035-A1(S54400-S111-A1) Marine Kit FCM7213-Y3 operating Add-on 2xLED

Software:

Software Version 50.21

Function:

The FC72x is a compact fire control panel with an integrated operating unit that can process signals from addressable FD720 devices. Up to 32 fire control panels and fire control terminals can be connected in a single cluster or up to 16 stations when the cluster is connected to a danger management system. The FT724 fire terminal is an operating panel remote from the central control panel.

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNVGL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNVGL for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Type Approval documentation

Test Reports and Documents: DNVGL_Documentation_Reports_2018-02-26

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

EN54-2 (1997) to A1 (2006); EN54-4 (1997) to A2 (2006); IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011); IEC60533 (1999)

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE