

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: Control and indicating equipment**

with type designation(s)  
**Sinteso® FC20x-Ax**

Issued to

**Siemens Schweiz AG**  
**Zug, Switzerland**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2017/306,**

**item No. MED/3.51a. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IMO MSC.1/Circ.1242 and IMO MSC.1/Circ.1487**

**item No. MED/3.51b. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9 and IMO MSC.1/Circ.1242**

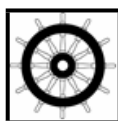
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2019-07-15**.

Issued at **Hamburg** on **2018-05-22**

DNV GL local station:  
**Augsburg**

Approval Engineer:  
**Heinz Scheffler**



Notified Body  
No.: **0098**

for **DNV GL SE**

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**Sven Dudzus**  
**Head of Notified Body**

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



## Product description

**Sinteso® FC20x-Ax is a addressable fire alarm central unit**

### Hardware Components:

- Control and Indicating Equipment:
  - FC2020-AA
  - FC2020-AE
  - FC2040-AA
  - FC2040-AE
  - FT2040-AZ
  - FT2040 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:
  - FCM2006-A1 Add on with 48 LED
  - FN2001-A1 SafeDlink Network Module
  - FCA2002-A1 RS485 Module
  - FCA2001-A1 RS232 Module
  - FCI2001-A1 Loop Extension Module
  - FCA2005-A1 External Sounder Driver
  - S54400-S111-A1 Marine Kit
  - FCM2038-A2 operating Add-on 2xLED

### Software:

Software Version 50.21

### Function:

The FC20x is a compact fire control panel with an integrated operating unit that can process signals from addressable FD20 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 FT2040 fire terminal is an operating panel remote from the central control panel.

## Application/Limitation

None

## Type Examination documentation

DNVGL\_Documentation\_Reports\_2018-02-26

## Tests carried out

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
- According to Article 10 of the Council Directive (MED)

END OF CERTIFICATE