

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00004CA
Revision No:
2

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, indicating and power supply equipment

with type designation(s)
Conventional Fire Detection and Alarm System FMS3000

Issued to
DECKMA GmbH - Decksmaschinen und Automation Vetriebs GmbH
Rosengarten-Klecken, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2019/1397,
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, IGF Code 11, IMO MSC.1/Circ.1242, IMO MSC.1/Circ.1487 and MSC.1/Circ.1528
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, IGF Code 11, IMO MSC.1/Circ.1242 and IMO MSC.1/Circ.1554

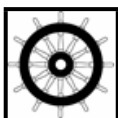
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-02-29**.

Issued at **Hamburg** on **2019-11-28**

DNV GL local station:
Hamburg

Approval Engineer:
Heinz Scheffler



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-008448-6**
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Product description

The FMS 3000 system is flexible and can contain the following components:

FM01-E: Fire Loop Module (conventional) for up to 8 loops (max. 4 modules)
AM01-E: Output Module with 8x Relay output, 3x 24 VDC outputs and 1 Input (max. 2 modules)
HT01-E: Main Panel/Repeater Panel (max. 1 Main- and 2 Repeater Panels)
VM01-E: VDR Module, NMEA 0183 protocol via RS485 or RS232 (max. 1 module)
DM01-E: Printer Module, centronics interface (max. 1 modules)
TR01-E: Power Supply Module (max. 1 module)
NM01-E: Main Module (max. 1 module)

Approved detectors for operating with the FMS 3000:

- All MED approved conventional detectors with operating:
- Voltage 24V DC $\pm 20\%$ and alarm resistance from 390 up to 560 Ohm

Application/Limitation

None

Type Examination documentation

Test report: EMV 07010.198.13; Environmental 13-4968; Function Test 201309_0_FP_FMS; EMV 056-19
Documents: Operating Manual 20130916BA_06_FMS3000; Installation Manual 20130916IA_02_FMS3000;
Dokumentenliste MED-Zulassung FMS3000, Rev.C, dated 07.10.2019 ML

Tests carried out

EN 54-2:1997 incl. AC:1999 and A1:2006; EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006;
IEC 60092-504:2016; IEC 60533:2015

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer name
- Type designation with device type
- Serial Number
- Mark of Conformity (see footer on page 1)

END OF CERTIFICATE