

# EC Certificate Type Examination (Module B)



This is to certify that:

Germanischer Lloyd, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No. **61 075 - 13 HH**

Applicant **DECKMA GmbH**  
**Bahnhofstraße 79**  
**21224 Rosengarten-Klecken, GERMANY**

Product Description **Conventional Fire Detection and Alarm System**

Product Name **FMS 3000**

Trade Name **FMS 3000**

Specified Standards **EN 54-2 (1997) to A1(2006); EN 54-4 (1997) to A2(2006)**  
**IEC 60092-504 (2001)**  
**IEC 60533 (1999)**

Related Directive **2011/75/EU**

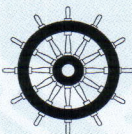
Equipment Section **Fire protection**

Annex A.1 Item No. **A.1/3.51**

Date of Issue **2013-09-25**

Expiry Date **2018-09-24**

**Germanischer Lloyd**



**Nils Wegener**

**Notified Body No.: 0098**



## Schedule of Approval

### Approval Documentation

Test report :EMV 07010.198.13; Environmental 13-4968; Function Test 201309\_0\_FP\_FMS  
Documents: Operating Manual 20130916BA\_06\_FMS3000; Installation Manual 20130916IA\_01\_FMS3000; further documents submitted "Dokumentenliste MED-Zulassung FMS3000, Rev.0"

### Technical Data

The system can be arranged within the following components:  
The FMS 3000 system is flexible and can contend 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 +20% and alarm resistance form 390 up to 560 Ohm

### Remarks

None

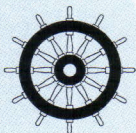
### Limitations on the acceptance or use of the product

None

### Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform Germanischer Lloyd, as the Notified Body, of any modifications or changes to the approved equipment.

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.



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.