

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>DECKMA GmbH</b>
<b>Address</b>	Bahnhofstr.79, Rosengarten, 21224, Germany
<b>Type</b>	Fire And Gas Detection Alarm And Control Systems
<b>Description</b>	Addressable fire alarm system refer to the Appendix for details
<b>Trade Name</b>	AFMS 3000
<b>Application</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval, Test Specification No. 1 - 2002.
<b>Specified Standard</b>	Manufacturer's specification IACS unified requirements E10 (Rev.7 Oct 2018)
<b>Ratings</b>	Power supply: 230VAC (50/60Hz) or 24V DC refer to the Appendix for further details
<b>Other Conditions</b>	Final arrangement of the system is to be in compliance with relevant Lloyd's Register Rules and Regulations and Statutory Regulations if applicable.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ETS 40034-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## Appendix

<b>TYPE</b>	<p>AFMS 3000</p> <p>Comprising following components:</p> <ul style="list-style-type: none"><li>FMS 3000 AHT01-E - Main panel</li><li>FMS 3000 AHT01-E - Repeater panel</li><li>FMS 3000 HT01-E - Repeater panel</li><li>FMS 3000 VM01-E - VDR module</li><li>FMS 3000 DM01-E - Printer module</li><li>FMS 3000 AM01-E - Output module</li><li>FMS 3000 AFM01-E - Fire detection module</li><li>FMS 3000 FM01-E - Fire detection module</li><li>FMS 3000 NM01-E- Supply module</li><li>FMS 3000 TR01-E - Transformer module</li><li>FMS 3000 DT01-E - Data module</li><li>FMS 3000 MBM01-E- Modbus module</li></ul> <p>Detectors:</p> <ul style="list-style-type: none"><li>ACC-ENM Addressable multi sensor detector</li><li>ALN-ENM Addressable smoke detector</li><li>ATJ-ENM Addressable heat detector</li><li>YBN-R/3 Base for addressable detectors</li><li>YBN-R/3 M (SCI) Short circuit isolator socket for addressable detectors</li><li>MBB-1 - Base for detector IP 54</li><li>CHQ-DIM/M(SCI) Dual switch Monitor</li><li>CHQ-DRC/M(SCI) Dual relay Controller</li><li>CHQ-DZM/M(SCI) Dual Zone Monitor</li><li>CHQ- DZM/M(SCI)-IS - Ex Dual Zone Monitor</li><li>HCP-W - Addressable manual call point IP67</li><li>HCP-E - Addressable manual call point IP24</li><li>K*D0-CS-Ex*.5* - Ex- barrier</li><li>DRD-EM IR- Flame detector</li><li>SLR-E-IS - Intrinsically safe conventional optical smoke detector only together with the addressable fire alarm system AFMS 3000.</li></ul>
<b>RATINGS</b>	<p>Safe distance to the Standard-Magnetic-compass 2,45 m:</p> <ul style="list-style-type: none"><li>AFMS 3000</li><li>VDR module VM01-E4</li><li>Printer module DM01-E1</li><li>Output module AM01-E4</li></ul>

Fire loop module AFM01-E8  
 Main module NM01-E11  
 Power supply TR01-E5

Standard-Magnetic-compass 1,15 m  
 Main panel FMS 3000  
 AHT01-E10 with DT01-E or HT01-E  
 Modbus module FMS 3000  
 MBM01-E2

Safe distance to the Steering-Magnetic-compass 1,15 m  
 AFMS 3000  
 VDR module VM01-E4  
 Printer module DM01-E1  
 Output module AM01-E4  
 Fire loop module AFM01-E8  
 Main module NM01-E11  
 Power supply TR01-E5

Steering-Magnetic-compass 0,70 m  
 Main panel FMS 3000  
 AHT01-E10 with DT01-E or HT01-E  
 Modbus module FMS 3000  
 MBM01-E2

Software release:

Description	Type	Software/firmware versions
Main panel		
Repeater panel	AHT01-E	4.3.(x)/4.3.(x)/4.3.(x)
Repeater panel	HT01-E	4.0.(x)
VDR module	VM01-E	4.0.(x)
Printer module	DM01-E	3.2.(x)
Output module	AM01-E	3.2.(x)
Fire loop module	FM01-E	3.2.(x)
Fire loop module	AFM01-E	4.0.(x)
Main module	NM01-E	4.0.(x)
Modbus module	MBM01-E	4.2.(x)
Data module	DT01-E	4.1.(x)