



中国船级社
CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.01-
HQ002252

型式认可证书
CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. HB11T00045

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/ Product Approved

油雾浓度探测及报警装置

OIL MIST DETECTION AND ALARM EQUIPMENT

制造厂/ Manufacturer

Heinzmann GmbH & Co.KG

Heinzmann GmbH & Co.KG

Am Haselbach 1, D-79677 Schoenau, Germany

Am Haselbach 1, D-79677 Schoenau, Germany

认可标准/ Approval Standard

- 1.IACS UR M67(Rev.1 Oct. 2006)
- 2.CCS批准的图纸
Drawings Approved by CCS
- 3.CCS《电气电子设备型式认可试验指南》2006
CCS Guidelines for Type Approval Test of Electric and Electronic Products(2006)
- 4.CCS《钢质海船入级规范》(2009)及其修改通报 第3篇,第9章,附录8
Appendix 8, Chapter 9, Part 3 of CCS Rules for the Classification of Sea-going Steel Ships 2009 and its Amendments

证书有效期至/ **This Certificate is valid until**

2015年12月9日 / Dec. 9, 2015

发证机构

中国船级社汉堡分社

Issued by

CCS Hamburg Branch

签发日期

2011年12月10日

Date

Dec. 10, 2011

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明。当本证书包括多页纸张时,则所有证书页为一个整体,必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人不得擅自摘录或节选本证书的部分内容。本认可证书不代表本社对产品质量的检验。有关各方对所持证书的真实性有疑问时,可以向本社检验机构咨询。

This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



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HB57646435
Nº 11884231

产品明细/ Product Description

油雾浓度探测及报警装置/Oil Mist Detection and Alarm Equipment
 型号/Type : TRITON I OMD
 More details please refer to attachments

油雾浓度测量范围/Oil Mist Concentration Assessment Capability : 0.2-10 mg/l
 工作温度/Operating Temperature : 0-70 °C
 工作电压/Working Voltage : 24 DC V

批准的图纸和设计计算书/ Approved Drawings and Design Calculations

图纸批准号/ Drawings Approval No. : HB11T00045

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No. : M67 Standardization
 试验报告日期/Test Report Date : 2011-07-19
 试验单位/ Laboratory : -
 试验单位地址/ Test Address : MSS GmbH
 Wasserturmstr. 32, D-66954 Pirmasens-Winzeln Germany

试验报告编号/Test Report No. : 1-2411-1-2-10
 试验报告日期/Test Report Date : 2010-08-23
 试验单位/ Laboratory : -
 试验单位地址/ Test Address : CETECOM ICT Services GmbH
 untuertuerkheimer Str. 6-10, D-66117
 Saarbruecken, Germany

试验报告编号/Test Report No. : 1-2411-01-03/10
 试验报告日期/Test Report Date : 2010-07-28
 试验单位/ Laboratory : -
 试验单位地址/ Test Address : CETECOM ICT Services GmbH
 untuertuerkheimer Str. 6-10, D-66117
 Saarbruecken, Germany

试验报告编号/Test Report No. : BVS 11 ATEX E 094 X
 试验报告日期/Test Report Date : 2011-07-26
 试验单位/ Laboratory : -
 试验单位地址/ Test Address : DEKRA EXAM GmbH
 Dinnendahlstr. 9, D-44809 Bochum, Germany

产品适用范围/ Application of the Product

船用/Marine Application

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。
 After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的专业质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。
 The professional quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。
 Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.



4. 在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

认可后的产品检验方式/ Method of Product Inspection after Approval

按照规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验，经检验合格后由制造厂签发合格证明，并连同该产品的本社认可证书复印件一并交付用户，制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。

After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

无/Nil.

责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证，并且不对与本社授权或检验无关的

各方负责，不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

其他/Others

1. Suitability has to be demonstrated for each individual engine type.

2. The Original Manufacturer: MSS GmbH
Address: Wasserturmstr.32, 66954 Pirmasens Germany

The Label Partner : HEINZMANN GmbH & Co. KG
Address: Am Haselbach 1, 79677 Schoenau, Germany

3. Product Name: Original Manufacturer Label Partner
GDMS-OMDN09 TRITON I OMD

中国船级社汉堡分社

CCS Hamburg Branch

*****本证书正文完/ End of Text*****

注：本证书含有附页，共2页

Note:The certificate is attached with 2 additional page(s)



Oil Mist Detection System - Technical data/ Range of Application**TRITON I OMD Gear and Diesel engine Monitoring System:**

Power Supply: 24V DC +30/-25%

Operating Current: max. 1.5A

Degree of protection: IP65

Ambient temperature in service:

0°C - 70°C for TRITON I OMD Control Unit

0°C - 85°C for TRITON I OMD Sensor Electronics

-10°C - 120°C for TRITON I OMD Sensor Measuring Section

Electronic Monitor: Ex II(2) [G Ex ia Gb] IIA

Probe: Ex 2G/- Ex ia IIA T4 Gb

-OMD CU (OMD Control Unit):

Connected with up to 16 intelligent TRITON I OMD Sensors

Sensitivity: alarm level adjustable in 10 steps from 0.2mg/l to 10 mg/l.

Relay-Outputs:

Contact load for all relays max. 60V AC, 1A, 60VA / max. 60V DC, 1A, 60W

- | | |
|--|--------------|
| 1. Relay with 2 ground-free switch-over contacts: | Main Alarm |
| 2. Relay normally closed, opens if pre-alarm condition arises: | Pre-Alarm |
| 3. Relay normally opened, closes if system recognizes no fault conditions: | System ready |

Wire breaks protection with 33K Ohm resistors (standard)

Serial Interface:

RS485 for standardized industrial, bidirectional communication

RS232 for setup and configuration

Communication protocol: Modbus, CAN Bus (optional)

User interface: LCD Display 240*128 dots

1 LED green "System Ready"

1 LED red "Alarm"

1 LED red "Pre-alarm"

Connection cable: approved

**-OMD Sensors and Accessories**

OMD Sensor Basic: OMD-SE-B [HZMV5.01/10.12.2010]

OMDN Sensor Basic EX: OMD-SE-B [HZMV5.01/10.12.2010]

OMD Sensor Extended: OMD-SE-E [HZMV5.01/10.12.2010]

OMD Sensor Extended EX: OMD-SE-E [HZMV5.01/10.12.2010]

OMD Sensor Small: OMD-SE-S [HZMV5.01/10.12.2010]

OMD Sensor Small EX: OMD-SE-S: [HZMV5.01/10.12.2010]

-OMD Remote Monitoring unit:

OMD RMU:1 Unit can connect to up to 8 TRITON I OMD systems built in alarm relays of the remote control: can be trigger an additional alarm system.

Relay-Outputs:

Contact load for all relays max. 60V AC, 1A, 60VA / max. 60V DC, 1A, 60W

1. Relay with 2 ground-free switch-over contacts, usually configured as main alarm: Alarm 1

2. Relay closes if system is fault-free, opens otherwise: System ready

Wire breaks protection with 33K Ohm resistors (standard)

Serial Interface:

RS485 for standardized industrial, bidirectional communication

RS232 for setup and configuration

Communication protocol: Modbus, CAN Bus

User interface: LCD Display 240*128 dots

1 LED green "Ready"

1 LED red "Alarm 1" (Usually set up as main alarm)

1 LED orange "Alarm 2" (Usually set up as pre-alarm)

Connection cable: approved

Software Versions:

Firmware OMD CU Version HZMV 5.10 B 1002 dated 10.12.2010

Firmware OMD CU-CANBUS Version HZMV 5.10 B 1002 dated 10.12.2010

Firmware OMD RMU Version HZMV 5.11 B 1000 dated 02.11.2010

