



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
HB23PTB00054

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

SM ELECTRICS GMBH,SERVICES & MORE

地址/Address

Eichkamp 30, 242417 Schoenberg, Germany

产品名称/Product

桥楼航行值班报警系统 (BNWAS)
Bridge Navigational Watch Alarm System (BNWAS)

附加标志/Notations

无/Nil.

认可标准/Approval Standard

- 国际海事组织大会决议A. 694 (17)《作为全球海上遇险和安全系统 (遇险和安全系统) 组成部分的船载无线电设备和电子助航设备的一般要求》
IMO Resolution A.694(17) General Requirements for Shipborne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids
- 国际海事组织海安会决议MSC. 128 (75)《桥楼航行值班报警系统 (BNWAS) 的性能标准》
IMO Resolution MSC.128 (75) PERFORMANCE STANDARDS FOR A BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM (BNWAS)
- 国际海事组织海安会决议MSC. 191 (79)《船载航行显示器有关航行信息显示的性能标准》
IMO Resolution MSC.191(79) Performance Standards for the Presentation of Navigation-Related Information on Shipborne Navigational Displays
- 国际海事组织海安会决议MSC. 302 (87)《通过驾驶室警报管理性能标准》
IMO Resolution MSC.302(87) Adoption of performance standards for Bridge Alert Management
- 国际海事组织海安会通函 MSC. 1/Circ. 1474《关于桥楼航行值班报警系统 (BNWAS) 自动功能的指南》
IMO MSC.1/Circ.1474 Guidance on The Bridge Navigational Watch Alarm System (BNWAS) Auto Function
- IEC 62616: 2010/COR1: 2012《船用导航和无线电通讯设备和系统 - 桥楼航行值班报警系统 (BNWAS)》
IEC 62616: 2010/COR1:2012 Maritime navigation and radiocommunication equipment and systems - Bridge navigational watch alarm system (BNWAS)
- IEC 60945:2002/COR1:2008《船用航行和无线电通信设备及系统-通用要求-试验方法和试验结果的要求》
IEC 60945:2002/COR1:2008 Maritime Navigation and Radiocommunication Equipment and Systems -General Requirements, Methods of Testing and Required Test Results

证书有效期至/ This Certificate is valid until 2028年01月30日/ Jan. 30,2028

发证机构/ Issued by 中国船级社汉堡分社
CCS Hamburg Branch

签发日期/ Date 2024年01月30日
Jan. 30,2024

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Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P023-75695912

用于/Intended for

船舶/Ships

产品明细/Product Description**桥楼航行值班报警系统 (BNWAS) /Bridge Navigational Watch Alarm System (BNWAS) (M0001)**

名称/Name	属性 (值) /Value	单位/Unit
型号/Type	le guardian 2025	
系统组成/System Component	See Additional page	
软件版本号/Software Version	LOD_yymmdd_F01.x (yyymmdd = date of minor software changes)	
电源/Power Source	240VAC / 24VDC	
外壳防护等级/Degree of Protection of Enclosure	IP22	
罗经安全距离/Compass Safe Distance	0.60	m

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP11A01954

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 410.096.-1,-2,-3
 试验报告日期/ Test Report Date : 2010-08-16
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19,D-23966 Wismar,Germany

试验报告编号/ Test Report No. : 409.137.-1,-2
 试验报告日期/ Test Report Date : 2009-12-13
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19,D-23966 Wismar,Germany

试验报告编号/ Test Report No. : 411.168.-1,-2,-3
 试验报告日期/ Test Report Date : 2011-09-12
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19,D-23966 Wismar,Germany

试验报告编号/ Test Report No. : 211103
 试验报告日期/ Test Report Date : 2021-11-03
 试验单位/ Laboratory: sm electrics GmbH
 试验单位地址/ Test Address: Am Wulfsbarg 17 | D-24217 Stakendorf

试验报告编号/ Test Report No. : 9065 17 19809 157
 试验报告日期/ Test Report Date : 2017-12-01
 试验单位/ Laboratory: sm electrics GmbH
 试验单位地址/ Test Address: Am Wulfsbarg 17 | D-24217 Stakendorf

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

按照规范每批抽样检验的产品/The product inspected by sampling in term of the rules:
 认可后的产品检验应由本社验船师根据本社规范规定每批抽样按批准的产品检验计划进行检验, 经检验合格后由本社颁发船用产品证书。
 After approval, product inspection should be carried out by sampling by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

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 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.

5. 如果属于获得型式认可B 模式证书，且无需颁发船用产品证书/等效证明文件的情况，证书获得者应接受本社每年一次的定期审核，定期审核日为认可证书期满之日对应的每一周年日，检查工作可在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The periodical audit should be carried out within 3 months before and after the anniversary date which corresponds to the date of expiry of the relevant.

备注/Remarks

本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。
The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社汉堡分社
CCS Hamburg Branch

注：本证书含有附页，共1页

Note: The certificate is attached with additional 1 page(s)

Product Description

Bridge Navigation Watch Alarm System (BNWAS)

Type –le guardian 2025 consisting of following equipments:

Type	Description	Remarks	
LOD 210.24.0.0	le guardian 2025operating device	Basic equipment Process I/O	
LCM 210.24.0.0	le guardian 2025connecting module		
NMEA 210.24.0.0	NMEA Expansion Module (incl. Selector Switch & Alarm Transfer)		
WAR 220.2.1.0	Watch Alarm Reset Unit with buzzer (for open bridge wings)	Additional equipment	
WAR 220.2.0.0	Watch Alarm Reset Unit (for open bridge wings)		
WAR 220.1.0.0	Watch Alarm Reset Button (for console installation)		
WAR 220.1.0.1	Watch Alarm Reset Button (for console installation)		
WAR 220.3.0.0	Watch Alarm Reset Unit (for indoor use only)		
WAP 220.2.0.0	Watch Alarm Panel (Stage #2 Alarm Device, flush mounted)		
WAP 220.4.0.0	Watch Alarm Panel (Stage #3 Alarm Device, triangular light & sounder)		
WAP 220.5.0.0	Watch Alarm Panel (Stage #2 Alarm Device, bulkhead mounted)		
WAB 220.2.0.0	Watch Alarm Extension Buzzer		
WAB 220.2.0.0	Watch Alarm Extension Buzzer (Wall mounted, IP 56b)		
WMS 220.2.0.0	Watch Alarm Motion Sensor Kit		
WPS 220.24.0.0	240VAC / 24VDC 2,5A power supply		Power supply
SME-Q-PS-1AC/ 24VDC/10 100...	240VAC/24VDC power supply		
SME-YRM2.DIODE	Redundancy module		
FAP 220.1.0.0	Failure Alarm Panel	Optional equipment:	
UPS 220.24.0.0	1.3Ah battery buffered UPS DC24V, 10A		
WPS AC/DC relay kit	Dual power supply application version A: DC main / AC back-up		
WPS AC/DC relay kit	Dual power supply application version B: AC main / DC back-up		

—The end—