



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
GB20PTB00019

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

Thrane & Thrane A/S

地址/Address

Lundtoftegaardsvej 93D, 2800 Kgs. Lyngby Denmark

产品名称/Product

自动识别系统 (AIS)
Universal Automatic Identification System Equipment (AIS)

认可标准/Approval Standard

1. IMO 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"
2. IMO MSC.74 (69) Annex 3 "Recommendation on Performance Standards for an Universal Shipborne Automatic Identification System (AIS)"
3. IMO MSC.191 (79) "Performance Standards for the Presentation of Navigation-Related Information on Shipborne Navigational Displays"
4. IMO MSC.302(87) ADOPTION OF PERFORMANCE STANDARDS FOR BRIDGE ALERT MANAGEMENT
5. ITU-R M.1371-5 (02/2014) "Technical Characteristics for an Automatic Identification System Using Time Division Multiple Access in the VHF Maritime Mobile Frequency Band"
6. IEC 61993-2:2018 Maritime navigation and radiocommunication equipment and systems - Automatic identification systems (AIS) - Part 2: Class A shipborne equipment of the automatic identification system (AIS) - Operational and performance requirements, methods of test and required test results
7. IEC 61162-1:2016 Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 1: Single talker and multiple listeners
8. IEC 62288:2014 Maritime navigation and radiocommunication equipment and systems - Presentation of navigation-related information on shipborne navigational displays - General requirements, methods of testing and required test results
9. IEC 60945:2002/COR1:2008 Corrigendum 1 - Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results
10. EN 62311 : 2008 ASSESSMENT OF ELECTRONIC AND ELECTRICAL EQUIPMENT RELATED TO HUMAN EXPOSURE RESTRICTIONS FOR ELECTROMAGNETIC FIELDS (0 HZ - 300 GHZ)
11. IEC 61162-2:1998 Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 2: Single talker and multiple listeners, high-speed transmission
12. IEC 61162-450:2018 Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

证书有效期至/ This Certificate is valid until 2024年08月03日/ Aug. 03,2024

发证机构/ Issued by 中国船级社哥本哈根办事处
CCS Copenhagen Office

签发日期/ Date 2020年08月03日
Aug. 03,2020

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关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 of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, 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. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

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:P020-40144596

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description**自动识别系统 (AIS) /Universal Automatic Identification System Equipment (AIS) (M0001)**

名称/Name	属性 (值) /Value	单位/Unit
产品名称/Product Name	Automatic Identification System	
型号/Type	SAILOR 6280 AIS System; SAILOR 6281 AIS Basic System	
工作频率/Operating Frequency	156.025 - 162.025 MHz	
输出功率/Output Power	High 12.5W; Low 1W	
电源/Power Source	10.8 - 31.2 VDC	
等级/Grade	Class A	
带宽/Bandwidth	25 kHz	
罗经安全距离/Compass Safe Distance	Safe Distance: 55 cm (Standard magnetic compass); 45 cm (Emergency magnetic compass)	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP20PPP01193

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : N 01.19
试验报告日期/ Test Report Date : 2019-04-11
试验单位/ Laboratory: RES Laboratory Co.,Ltd.
试验单位地址/ Test Address: 503,83, V.O., Bolshoy, St. Petersburg, Russia,199106,

试验报告编号/ Test Report No. : CML-R945/6-003-2
试验报告日期/ Test Report Date : 2013-05-27
试验单位/ Laboratory: Compliance Maritime Ltd
试验单位地址/ Test Address: Principle Consultant Compliance Maritime Ltd

试验报告编号/ Test Report No. : Issue Status:- 1
试验报告日期/ Test Report Date : 2013-06-05
试验单位/ Laboratory: Compliance Maritime Ltd
试验单位地址/ Test Address: Compliance Maritime Ltd

试验报告编号/ Test Report No. : BSH/4543/001/4112865/15-2
试验报告日期/ Test Report Date : 2015-06-24
试验单位/ Laboratory: Federal Maritime and Hydrographic Agency
试验单位地址/ Test Address: Bernhard-Nocht-Str. 78 D-20359 Hamburg Germany

试验报告编号/ Test Report No. : 75930992 Report 01 Issue 1
试验报告日期/ Test Report Date : 2015-10-27
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 75921133 Report 11 Issue 2
试验报告日期/ Test Report Date : 2013-07-04
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 75921133 Report 11 Issue 1
试验报告日期/ Test Report Date : 2013-06-11
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 75921133 Report 09 Issue 3
试验报告日期/ Test Report Date : 2013-07-05
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 75921133 Report 05 Issue 1
试验报告日期/ Test Report Date : 2013-07-10
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 75921133 Report 03 Issue 3
试验报告日期/ Test Report Date : 2013-07-05
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 75921133 Report 01 Issue 1
试验报告日期/ Test Report Date : 2013-07-15
试验单位/ Laboratory: TÜV SÜD Product Service
试验单位地址/ Test Address: Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, PO15 5RL, United Kingdom

试验报告编号/ Test Report No. : 218907
试验报告日期/ Test Report Date : 2012-11-19
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: P.O. Box 73 Blindern, N-0314 Oslo, Norway

试验报告编号/ Test Report No. : 96-153928-A
试验报告日期/ Test Report Date : 2016-10-28
试验单位/ Laboratory: Thrane & Thrane A/S trading as Cobham SATCOM
试验单位地址/ Test Address: Lundtoftegaardsvej 93D, DK-2800 Kgs. Lyngby, Denmark

试验报告编号/ Test Report No. : N 01. 14
试验报告日期/ Test Report Date : 2014-01-08
试验单位/ Laboratory: RES Laboratory Ltd.
试验单位地址/ Test Address: 503,83, V.O., Bolshoy, St.-Petersburg, Russia,199106

试验报告编号/ Test Report No. : N 16. 16
试验报告日期/ Test Report Date : 2016-10-24
试验单位/ Laboratory: RES Laboratory Co.,Ltd.
试验单位地址/ Test Address: 503,83, V.O., Bolshoy, St.-Petersburg, Russia,199106

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

按规范认可后应进行产品检验的产品/The product should be inspected 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 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, 检查工作应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 date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

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.

本证书由原工厂认可证书 (No. GB18T00033) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Works Approval Certificate No. GB18T00033.

1. SAILOR 6280 AIS System consist of:

-SAILOR 6282 (TT-6282A) AIS transponder

-SAILOR 6285 (TT-6285A) GPS Antenna- Active

-SAILOR 6283 (TT-6283A) Connection Box incl. wall tray.

-SAILOR 6004 (TT-6004A) Control Panel

2 SAILOR AIS Basic System consists of:

-SAILOR 6282 (TT-6282A) AIS transponder

-SAILOR 6285 (TT-6285A) GPS Antenna- Active

-SAILOR 6004 (TT-6004A) Control Panel

中国船级社哥德堡办事处
CCS Gothenburg Office