



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
SH21PTB00137

## 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

中电科(宁波)海洋电子研究院有限公司嘉兴分公司

China E-Tech (Ningbo) Maritime Electronics Research Institute Co., Ltd. Jiaxing Branch

### 地址/Address

浙江省嘉兴市秀洲区桃园路587号中电科(嘉兴)智慧产业园16号楼第三层  
Floor 3, Building No.16, CETC (Jiaxing) Wisdom Industrial Park, No.587, Taoyuan Road, Xiuzhou District, Jiaxing City, Zhejiang Province

### 产品名称/Product

导航设备

Navigation Equipment

AIS SART 设备

AIS SART Equipment

### 认可标准/Approval Standard

1. 国际海事组织海上安全委员会决议IMO MSC. 246 (83) 《供搜救作业使用的救生艇筏搜救AIS应答器(AIS-SART)性能标准》  
IMO MSC.246(83) Performance Standards for Survival Craft AIS Search and Rescue Transmitters (AIS-SART) for Use In Search and Rescue Operations
2. ITU-R M. 1371-5 (2014) 《在VHF水上移动频带内使用时分多址的自动识别系统的技术特性》  
ITU-R M.1371-5(2014) Technical Characteristics for An Automatic Identification System Using Time-Division Multiple Access In The VHF Maritime Mobile Band
3. 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
4. IEC 61097-14:2010 《全球海上遇险和安全系统(GMDSS) 第14部分:自动识别系统搜救发射机(AIS-SART) 操作与性能要求、测试方法和要求的测试结果》  
IEC 61097-14:2010 Global Maritime Distress and Safety System (GMDSS) - Part 14 - AIS Search and Rescue Transmitter (AIS-SART) - Operational and Performance Requirements, Methods of Testing and Required Test Results

证书有效期至/This Certificate is valid until 2025年10月08日/Oct. 08,2025

发证机构/Issued by 中国船级社上海分社  
CCS Shanghai Branch

签发日期/Date 2021年09月28日  
Sep. 28,2021

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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:P021-55988761

## 用于/Intended for

船舶与海上设施/Ships and Offshore Installations

## 产品明细/Product Description

## AIS SART 设备/AIS SART Equipment (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	VAI8	
输出功率/Output Power	2	W
调制/Modulation	GMSK/FM	
工作频率/Operating Frequency	161.975, 162.025	MHz
工作时长/Working Hours	>96	h
电池类型/Battery Type	锂电池 Lithium battery	
电池型号/Battery Model	2ER34615M	
电池电压/Battery Voltage	7.2	V
电池容量/Battery Capacity	13000	mAh
电池厂家/Battery Manufacturer	武汉孚安特科技有限公司 WUHAN FANSO TECHNOLOGY CO., LTD	

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : SH19PPP20122

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : JZCZ S20190624

试验报告日期/ Test Report Date : 2019-06-24

试验单位/ Laboratory: 中国电子科技集团公司第三十六研究所计量测试中心 Measure and Test Center of No.36 Research institute of China Electronic Technology Group Corporation

试验单位地址/ Test Address: 浙江省嘉兴市洪兴路387号 No.387 Hongxing Road, Jiaxing City, Zhejiang Province

## 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

本证书基于原证书 (No. SH19PTB00051) 签发并替代原证书。

The certificate is reissued based on and supersedes the previous certificate (No. SH19PTB00051).

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.

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