



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
BG19PTB00011

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

Navico Norway AS

地址/Address

Nyaskaiveien 2, N-4374 Egersund Norway

产品名称/Product

导航设备  
Navigation Equipment  
航向控制系统 (HCS)  
Heading Control System (HCS)

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 国际海事组织海上安全委员会决议IMO Res. MSC.64(67) Annex 3《关于自动操舵执行标准A.342(IX)决议的修正案》  
IMO Res. MSC.64(67) Annex 3 Amendment to Resolution A.342(IX) on Performance Standards for Automatic Pilots
2. 国际海事组织大会决议A.342(IX)《自动操舵执行标准的建议案》  
IMO Resolution A.342(IX) Recommendation on Performance Standards for Automatic Pilots
3. 国际海事组织大会决议A.822(19)《高速船自动操舵仪(自动舵)性能标准》  
IMO Resolution A.822(19) Performance Standards for Automatic Steering Aids (Automatic Pilots) for High-Speed Craft
4. 1974年国际海上人命安全公约及其修正案第V章第18, 19条, 第X章第3条  
Regulations 18&19, Chapter V, Regulation 3, Chapter X of International Convention for the Safety of Life at Sea, 1974, as Amended
5. 国际海事组织海安会决议MSC.1/Circ.1349高速船对国际海上人命安全公约第V章第18条到第20条和国际高速船安全规则第13章的符合性  
IMO Resolution MSC.1/Circ.1349 High-Speed Craft (HSC) Compliance with The Provisions of SOLAS Regulations V/18 to V/20 and Chapter 13 of The 2000 High-Speed Craft Code
6. 2000国际高速船安全规则及其修正案第13章  
Chapter 13 of International Code of Safety for High-Speed Craft, 2000, as Amended
7. 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

证书有效期至/This Certificate is valid until 2021年02月24日/ Feb. 24,2021

发证机构 中国船级社卑尔根办事处  
Issued by CCS Bergen Office

签发日期 2019年05月03日  
Date May. 03,2019

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:P019-274684



Distress and Safety System (GMDSS) and for Electronic Navigational Aids

8. 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

9. IMO MSC.302(87)《通过驾驶室警报管理性能标准》

IMO MSC.302(87) Adoption of performance standards for Bridge Alert Management

**用于/Intended for**

船舶与海上设施/Ships and Offshore Installations

**产品明细/Product Description**

航向控制系统 (HCS) /Heading Control System (HCS) (M001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	SIMRAD AP70 MK2	
电源/Power Source	DC 12/24	V
系统组成/System Component	Operator units, Remote operator units, Computers, Interface units	

**批准的图纸/Approved Drawings**

图纸批准号/Drawings Approval No.: BG19PPP20009

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No.: 96-103

试验报告日期/ Test Report Date: 1996-02-07

试验报告编号/ Test Report No.: 519241A(0016-PG-96)

试验报告日期/ Test Report Date: 1996-05-22

试验报告编号/ Test Report No.: 199949289

试验报告日期/ Test Report Date: 2000-01-03

试验报告编号/ Test Report No.: 2002-3131

试验报告日期/ Test Report Date: 2002-04-08

试验报告编号/ Test Report No.: 2003-3440

试验报告日期/ Test Report Date: 2003-11-05

试验报告编号/ Test Report No.: 2004-3514

试验报告日期/ Test Report Date: 2004-11-19

试验报告编号/ Test Report No.: T1106-1

试验报告日期/ Test Report Date: 2012-01-17

试验报告编号/ Test Report No.: 111002.1

试验报告日期/ Test Report Date: 2012-02-16

试验报告编号/ Test Report No.: 111029.1

试验报告日期/ Test Report Date: 2012-02-16

试验报告编号/ Test Report No.: TNP20120601-1

试验报告日期/ Test Report Date: 2012-04-24

试验报告编号/ Test Report No.: TNH20120601-01

试验报告日期/ Test Report Date: 2012-05-09

试验报告编号/ Test Report No. : 120507.1  
 试验报告日期/ Test Report Date : 2012-05-17

试验报告编号/ Test Report No. : 2012-3214 rev 2  
 试验报告日期/ Test Report Date : 2012-05-29

试验报告编号/ Test Report No. : TAP20120605-01  
 试验报告日期/ Test Report Date : 2012-06-01

试验报告编号/ Test Report No. : 120414.1  
 试验报告日期/ Test Report Date : 2012-06-06

试验报告编号/ Test Report No. : 120501.1  
 试验报告日期/ Test Report Date : 2012-06-11

试验报告编号/ Test Report No. : 120513.1  
 试验报告日期/ Test Report Date : 2012-06-11

试验报告编号/ Test Report No. : TNQ20120601-01  
 试验报告日期/ Test Report Date : 2012-06-12

试验报告编号/ Test Report No. : 120622.1  
 试验报告日期/ Test Report Date : 2012-08-09

试验报告编号/ Test Report No. : 20244836  
 试验报告日期/ Test Report Date : 2013-05-14

试验报告编号/ Test Report No. : 21486  
 试验报告日期/ Test Report Date : 2019-01-08

试验报告编号/ Test Report No. : F18292.00  
 试验报告日期/ Test Report Date : 2019-01-25

试验报告编号/ Test Report No. : ISO 16329  
 试验报告日期/ Test Report Date : 2019-01-29

试验报告编号/ Test Report No. : ISO 11674  
 试验报告日期/ Test Report Date : 2019-01-29

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

按照规范逐件检验的产品/The product inspected one by one 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逐件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 one by one 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

I. 本证书由原型式认可证书 (No. BG16T00029) 变更，原证书保持有效。

This Certificate is modified from the previous Type Approval Certificate No. BG16T00029, the previous certificate remains valid.

II. Type approval history:

Initial approval: GB12T00036;

First renewal: BG16T00029.

III. 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.

中国船级社卑尔根办事处  
CCS Bergen Office