



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
LD22PTA00002

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

McMurdo Ltd.

地址/Address

Holbrook Court, E1 Cumberland Business Centre, Northumberland Road, Southsea, Hampshire, PO5 1DS, UK

产品名称/Product

无线电通信设备
Radio-Communication Equipment
406MHz 紧急无线电示位标(COSPAS-SARSAT)
406 MHz EPIRB (COSPAS-SARSAT)

认可标准/Approval Standard

- 1. 1974年国际海上人命安全公约第四章C部分第14款及其修正案
Regulation 14, PART C, CHAPTER IV of SOLAS, as Amended
- 2. IMO A. 694 (17) 决议《作为全球海上遇险和安全系统 (GMDSS) 组成部分的船载无线电设备和电子导航设备的一般要求》
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
- 3. 国际海事组织海大决议A. 810 (19) 《在406MHz上工作的自浮式卫星无线电应急示位标 (EPIRBs) 的性能标准》
IMO Resolution A.810(19) Performance Standards for Float-free Satellite Emergency Position-Indicating Radio Beacons (EPIRBs) Operating ON 406MHz
- 4. IMO MSC. 120 (74) : 通过对自浮式406MHz应急卫星无线电示位标 (EPIRBs) 性能标准的修正案 (A. 810 (19) 决议案)
IMO MSC.120(74) ADOPTION OF AMENDMENTS TO PERFORMANCE STANDARDS FOR FLOAT-FREE SATELLITE EMERGENCY POSITION-INDICATING RADIO BEACONS (EPIRBs) OPERATING ON 406 MHz (RESOLUTION A.810(19))

用于/Intended for

国际航行海船/International sea-going ship



证书有效期至/ This Certificate is valid until 2026年07月14日/ Jul. 14,2026

发证机构/ Issued by 中国船级社伦敦办事处
CCS London Office

签发日期/ Date 2022年07月01日
Jul. 01,2022

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Form No: Q01.

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:P022-08811896

产品明细/Product Description**406MHz 紧急无线电示位标(COSPAS-SARSAT)/406 MHz EPIRB (COSPAS-SARSAT) (M0001)**

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	See Appendix	
型号/Type	See Appendix	
工作时长/Working Hours	48 h	
闪光率/Rate of Flashing	23 flashes per minute	
罗经安全距离/Compass Safe Distance	0.65	m
COSPAS-SARSAT型式认可证书号/COSPAS-SARSAT Certificate Number	No. 289	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP18AA00214, NP18AA03880

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 75931946 Report 01 Issue 2
 试验报告日期/ Test Report Date : 2017-04-13

试验报告编号/ Test Report No. : 102921912LHD-001b
 试验报告日期/ Test Report Date : 2017-05-09

试验报告编号/ Test Report No. : BSH/4542/001/4143066/17
 试验报告日期/ Test Report Date : 2017-07-05

试验报告编号/ Test Report No. : 7191166085-CHM17-CCK
 试验报告日期/ Test Report Date : 2017-07-27

试验报告编号/ Test Report No. : 103143189LHD-001
 试验报告日期/ Test Report Date : 2017-08-16

试验报告编号/ Test Report No. : 75931946 Report 08 Issue 1
 试验报告日期/ Test Report Date : 2017-10-26

试验报告编号/ Test Report No. : 75931946 Report 07 Issue 1
 试验报告日期/ Test Report Date : 2017-10-26

试验报告编号/ Test Report No. : 75931946 Report 09 Issue 1
 试验报告日期/ Test Report Date : 2017-10-27

试验报告编号/ Test Report No. : 75931946 Report 06 Issue 1
 试验报告日期/ Test Report Date : 2017-10-31

试验报告编号/ Test Report No. : 75931946 Report 10 Issue 1
 试验报告日期/ Test Report Date : 2017-12-14

试验报告编号/ Test Report No. : 75931946 Report 05 Issue 2
 试验报告日期/ Test Report Date : 2018-02-23

试验报告编号/ Test Report No. : 75931946 Report 02 Issue 3
 试验报告日期/ Test Report Date : 2018-02-26

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

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，本社在文件审核合格后颁发船用产品证书。
 After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society, and the Marine Product Certificate is issued by the Society upon satisfactory documents review.

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. 型式认可A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。

Those who have obtained the certificate of type approval A 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.

中国船级社伦敦办事处

CCS London Office

注: 本证书含有附页, 共4页

Note: The certificate is attached with additional 4 page(s)

Product Specification Table

Product Name	Product specification		Others
McMurdo Smartfind G8 AIS Kannad Safe PRO AIS	Operating Frequency	406.04 MHz 121.5 MHz	1. This Certificate is modified from and supersedes the previous Type Approval Certificate No.AT19PTA00001_01. 2. Drawing approval number: NP18A00214 3. COSPAS-SARSAT Type Approval Certificate No: 289 4. The product had been also fully complied with ALL the applicable requirements of IMO MSC.56(66),IMO MSC/Circ.862 and IACS UR E22. 5. According to MED Module D Quality System Certificate. No.DK-MED005707-H1. add the Details of the Production Facilities (Fabricator): Name (1) : AsteelFlash Tunisia SA Address: 104 avenue de l'Union Maghreb Arabe 2036 La Soukra Tunisie
	Output power	5W±2dB and 50mW±3dB PERP	
	Antenna	Blade vertically, polarized, omni-directional	
	Battery Type	Lithium Battery Pack	
	Battery Voltage	9 V	
	Battery Capacity	3000 mAh	
	Battery Manufacturer	McMurdo Ltd	
McMurdo Smartfind G8 Kannad Safe PRO	Operating Frequency	406.04 MHz 121.5 MHz	1. This Certificate is modified from and supersedes the previous Type Approval Certificate No.AT19PTA00001_02. 2. Drawing approval number: NP18A00214 3. COSPAS-SARSAT Type Approval Certificate No: 289
	Output power	5W±2dB and 50mW±3dB PERP	

	Antenna	Blade vertically, polarised, omni-directional	<p>4. The product had been also fully complied with ALL the applicable requirements of IMO MSC.56(66), IMO MSC/Circ.862 and IACS UR E22.</p> <p>5. According to MED Module D Quality System Certificate. No. DK-MED005707-H1. add the Details of the Production Facilities (Fabricator):</p> <p>Name (1) : AsteelFlash Tunisia SA</p> <p>Address: 104 avenue de l'Union Maghreb Arabe 2036 La Soukra Tunisie</p>
Battery Type	Lithium Battery Pack		
Battery Voltage	9 V		
Battery Capacity	3000 mAh		
Battery Manufacturer	McMurdo Ltd		
McMurdo Smartfind E8 Kannad Safe	Operating Frequency	406.04 MHz 121.5 MHz	<p>1. This Certificate is modified from and supersedes the previous Type Approval Certificate No.AT19PTA00001_03.</p> <p>2. Drawing approval number: NP18A00214</p> <p>3. COSPAS-SARSAT Type Approval Certificate No: 289</p> <p>4. The product had been also fully complied with ALL the applicable requirements of IMO MSC.56(66),IMO MSC/Circ.862 and IACS UR E22.</p> <p>5. According to MED Module D Quality System Certificate. No. DK-MED005707-H1. add the Details of the Production Facilities (Fabricator):</p> <p>Name (1) : AsteelFlash Tunisia SA</p>
	Output power	5W±2dB and 50mW±3dB PERP	
	Antenna	Blade vertically, polarised, omni-directional	
	Battery Type	Lithium Battery Pack	
	Battery Voltage	9 V	
	Battery Capacity	3000 mAh	
	Battery Manufacturer	McMurdo Ltd	

			Address: 104 avenue de l'Union Maghreb Arabe 2036 La Soukra Tunisie
SAILOR 4065 EPIRB GNSS	Operating Frequency	406.04 MHz 121.5 MHz	<ol style="list-style-type: none"> 1. This Certificate is modified from and supersedes the previous Type Approval Certificate No.AT19PTA00002_04. 2. Drawing approval number: NP18A03880 3. COSPAS-SARSAT Type Approval Certificate No: 289 4. The product had been also fully complied with ALL the applicable requirements of IMO MSC.56(66),IMO MSC/Circ.862 and IACS UR E22. 5. According to MED Module D Quality System Certificate. No. DK-MED005707-H1. add the Details of the Production Facilities (Fabricator): Name (1) : AsteelFlash Tunisia SA Address: 104 avenue de l'Union Maghreb Arabe 2036 La Soukra Tunisie
	Output power	5W±2dB and 50mW±3dB PERP	
	Antenna	Blade vertically, polarised, omni-directional	
	Battery Type	Lithium Battery Pack	
	Battery Voltage	9 V	
	Battery Capacity	3000 mAh	
	Battery Manufacturer	McMurdo Ltd	
SAILOR 4065 EPIRB	Operating Frequency	406.04 MHz 121.5 MHz	<ol style="list-style-type: none"> 1. This Certificate is modified from and supersedes the previous Type Approval Certificate No.AT19PTA00002_05. 2. Drawing approval number: NP18A03880 3. COSPAS-SARSAT Type Approval Certificate No: 289
	Output power	5W±2dB and 50mW±3dB PERP	

Antenna	Blade vertically, polarised, omni-directional	4. The product had been also fully complied with ALL the applicable requirements of IMO MSC.56(66),IMO MSC/Circ.862 and IACS UR E22. 5. According to MED Module D Quality System Certificate. No. DK-MED005707-H1. add the Details of the Production Facilities (Fabricator): Name (1) : AsteelFlash Tunisia SA Address: 104 avenue de l'Union Maghreb Arabe 2036 La Soukra Tunisie
Battery Type	Lithium Battery Pack	
Battery Voltage	9 V	
Battery Capacity	3000 mAh	
Battery Manufacturer	McMurdo Ltd	