



FAK-ARMATUREN GmbH

中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
JS24PTB00111

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

RKMC Co., Ltd.

地址/Address

南京市浦口区兰花路19号23号楼4楼  
4F, Building 23, Kecheng Science South Park, No.19 Lanhua Road, Pukou, Nanjing City

产品名称/Product

阀门遥控及液位遥测系统  
Valve Remote Control and Level Measuring System

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》第3篇第2、4、15章  
Chapters 2,4 and 15, Part Three of China Classification Society Rules for Classification of Sea-going Steel Ships
2. 中国船级社《钢质海船入级规范》第4篇第1、2、3章  
Chapters 1,2 and 3, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships
3. 中国船级社《钢质海船入级规范》第7篇第1、2、3章  
Chapters 1,2 and 3, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships

用于/Intended for

船舶/Ships



证书有效期至/This Certificate is valid until 2029年08月25日/ Aug. 25,2029

发证机构/中国船级社江苏分社  
Issued by: CCS Jiangsu Branch

签发日期 2024年08月26日  
Date Aug. 26,2024

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。本证书凡是未注明版本的规范，其（发证时）最新版本适用于本证书。  
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. **For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the this certificate.**



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:P024-09603619



产品明细/Product Description

阀门遥控及液位测量系统/Valve Remote Control and Level Measuring System (M0001)

名称/Name	属性（值）/Value	单位/Unit
型号/Type	RKMC-VRCS & LMS	
软件版本号/Software Version	MCGS/INTOUCH, Version: RKMC V1.0	
系统组成/System Component	见附页 See Additional Page	
电源/Power Source	见附页 See Additional Page	
外壳防护等级/Degree of Protection of Enclosure	见附页 See Additional Page	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP23PPP02320

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 24IAS01P32D32-60026/1  
试验报告日期/ Test Report Date : 2024-07-12  
试验单位/ Laboratory: 上海电器设备检测所有限公司 Shanghai Testing & Inspection Institute for Electrical Equipment Co., Ltd.  
试验单位地址/ Test Address: 上海市武宁路505号 No. 505, Wuning Road, Shanghai

试验报告编号/ Test Report No. : RKMC-VL23001  
试验报告日期/ Test Report Date : 2024-08-20  
试验单位/ Laboratory: 里安电气（江苏）有限公司 RKMC Co., Ltd.  
试验单位地址/ Test Address: 南京市浦口区兰花路19号23号楼4楼 4F, Building 23, Kecheng Science South Park, No.19 Lanhua Road, Pukou, Nanjing City

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.

#### 备注/Remarks

1. 本系统不满足 IACS UR E27 《船用系统/设备网络安全》的相关要求。  
This system does not meet the relevant requirements of IACS UR E27 "Cyber Resilience of On-board Systems and Equipment".
2. 系统组成中的执行器不得用于开敞甲板上。  
The actuator in system component can not be used on open decks.
3. 本系统仅包含阀门开闭功能, 不包含开度功能。  
This system only includes the valve opening and closing function, does not include the opening degree function.
4. 本系统不包括传感器, 传感器应持有 CCS 型式认可证书及有效的防爆合格证 (适用时)。  
This system does not include the the sensors and the sensors shall have the Certificate of Type Approval issued by CCS and a valid Ex-Certification (if applicable).
5. 本认可产品中安全栅的防爆性能参数基于制造厂提交的防爆合格证 (签发机构: 上海仪器仪表自控系统检验测试所有限公司, 证书号: GYB22. 3404X、GYB22. 2463、GYB22. 2465, 防爆标准: GB/T3836. 1-2021 和 GB/T3836. 4-2021), 非中国船级社认可。  
The barrier's Ex-Proof parameters in this approved products originate from Ex-Certification received from manufacturer (Issuing Body: Shanghai Inspection and Testing Institute of Instruments and Automatic Systems Co., Ltd., Ex-Certification No.: GYB22. 3404X, GYB22. 2463, GYB22. 2465, Standards for ExProof: GB/T3836. 1-2021 and GB/T3836. 4-2021), not approved by CCS.
6. 本认可产品中安全栅应持有有效的防爆合格证, 否则本证书将自动失效。  
This Type Approval Certification will be invalid if the barrier in this approved products do not hold valid Ex-Certification.
7. 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.

中国船级社江苏分社

CCS Jiangsu Branch

注: 本证书含有附页, 共1页

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



## 系统组成/System Component

系统组成 System Component		型号 Type	主要规格参数 Main Parameters		外壳防护等级 Degree of Protection of Enclosure
控制单元 Control Unit	电脑 Computer	ARK Series EliteDesk Series	电源 Power Source	AC220V,50/60Hz DC24V	IP44
	触摸屏 Touch Panel	TPC Series	电源 Power Source	DC24V	
	显示器 Monitor	HP19, 21, 24, 27 inch	电源 Power Source	AC220V, 50/60Hz DC24V	
	可编程控制器 PLC	S7 Series	电源 Power Source	AC220V, 50/60Hz DC24V	
	采集模块 Signal Module	TD Series	电源 Power Source	DC24V	
	不间断电源 UPS	TG500 TG1000	电源 Power Source	AC220V, 50/60Hz	
	安全栅 Safety Barrier	NPEXA-C2D11 NPEXA-C5D111 NPEXA-CM3D11	电源 Power Source	DC24V	
			防爆标志 Explosion-Proof Marking	[Ex ia Ga] IIC	
高位报警系统 High level alarm unit		HLA-1000	电源 Power Source	DC24V	IP44 (前面板/Front Panel)
溢出报警系统 Overfill alarm unit		HLA-1000	电源 Power Source	DC24V	IP44 (前面板/Front Panel)
液压泵站 Hydraulic Pump Station		RKMC-HPU	电源 Power Source	AC380V/440V, 50/60Hz	IP44 (控制箱/Control Box)
			工作压力 Working Pressure	6~13. 5MPa	
电磁阀箱 Solenoid Valve Cabinet		RKMC-SVC	工作压力 Working Pressure	6~13. 5MPa	IP44
液压执行器 Hydraulic Actuator		RKMC-HA Series	工作压力 Working Pressure	6~13. 5MPa	IP68
电动执行器 Electric Actuator		RKMC-EA Series	电源 Power Source	AC220V/380V/440V, 50/60Hz	IP65
电液执行器 E-Hydraulic Actuator		RKMC-EH Series	电源 Power Source	AC220V, 50/60Hz DC24V	IP66
阀位指示器 Valve Position Indicator		RKMC-VPI	电源 Power Source	DC24V	IP66
应急手动泵 Emergency Hand Pump		RKMC-EHP	工作压力 Working Pressure	6~13. 5MPa	--