



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

北京科尔康安全设备制造有限公司  
Crowcon Detection Instruments(Beijing) Ltd.

地址/Address

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产品名称/Product

可燃气体探测报警系统  
Combustible Gas Detection and Alarm System  
可燃气体报警控制器  
Combustible Gas Alarm Control Device

认可标准/Approval Standard

1. 1974年国际海上人命安全公约及其修正案第II-2章B部分第4条  
Regulations 4, Part B of Chapter II-2 of International Convention for the Safety of Life at Sea, 1974, as Amended.
2. 中国船级社《钢质海船入级规范》(2021)及其修改通报第4篇第1, 2章, 第6篇第3章, 第7篇第2章; 第8篇第3章  
Chapter 1, Part Four, Chapter 3, Part Six, Chapter 2, Part Seven, Chapter 3, Part Eight of China Classification Society Rules for Classification of Sea-Going Steel Ships 2021 and its Amendments
3. IEC 60079-29-1:2020 爆炸性环境. 第29-1部分: 气体探测器. 易燃气体探测器的性能  
IEC 60079-29-1:2020 Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

证书有效期至/This Certificate is valid until 2024年01月11日/ Jan. 11,2024

发证机构 中国船级社天津分社 签发日期 2021年08月12日  
Issued by CCS Tianjin Branch Date Aug. 12,2021

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## 产品明细/Product Description

## 可燃气体报警控制器/Combustible Gas Alarm Control Device (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	可燃气体探测报警系统 Combustible Gas Detection and Alarm System	
型号/Type	GDS	
电源/Power Source	AC 220/ DC 24	V
防爆标志/Explosion-Proof Marking	气体探测器/gas detector: Exd IICT6 Gb	
探测气体种类/Detectable Gas Species	CH4	
监测容量/Capacity of Supervising	≤24	
软件版本号/Software Version	系统/system:A2.1; 气体探测器/gas detector: 4.648	
系统组成/System Component	控制柜/control cabinet(GDS-1000); 采样柜/sampling cabinet(GDS-2000); (可选/optional) 气体探测器/gas detector(Xgard Bright); 不间断电源/UPS(CUHDA11/102I10) (可选/optional); 复示器/repeater(X2 pro) (可选/optional)	
外壳防护等级/Degree of Protection of Enclosure	气体探测器/gas detector: IP66; 复示器/repeater: Front IP65 / Rear IP20; 其它/Others: IP22	

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP21PPP00860

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : GJWX21-0146  
试验报告日期/ Test Report Date : 2021-05-19

试验报告编号/ Test Report No. : CBPD-T-24K085 A1.00  
试验报告日期/ Test Report Date : 2021-07-12

## 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, 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告本社批准。

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

1、本证书由原型式认可证书 (No. TJ19PTB00087) 变更并替代原证书。

This certificate is modified from and supersedes the previous Type Approval Certificate No. TJ19PTBT00087.

2、系统中的气体探测器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 gas detector of this approved product do not hold valid Ex-Certification.

3、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.

中国船级社天津分社  
CCS Tianjin Branch

