



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
GB25PTB00004

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

Norsk Analyse AS

地址/Address

Wirgenesvei 10,3157 Barkaker Norway

产品名称/Product

废气连续排放测量系统  
Continuous Emission Measurement System

附加标志/Notations

无/Nil.

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》第7篇第2章  
Chapter 2, Part 7 of China Classification Society Rules for Classification of Sea-Going Steel Ships
- IMO决议 MEPC. 340(77)《2021年废气清洗系统导则》  
IMO Resolution MEPC. 340(77) 2021 Guidelines for Exhaust Gas Cleaning Systems
- 2008年氮氧化物技术规则及其修正案  
NOx Technical Code 2008 and its Amendments.

用于/Intended for

船舶/Ships

证书有效期至/This Certificate is valid until 2027年10月09日/Oct. 09,2027

发证机构/Issued by 中国船级社哥德堡办事处  
CHINA CLASSIFICATION SOCIETY  
Göteborg Office

签发日期/Date 2025年05月07日  
May. 07,2025

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:P025-88796556

**产品明细/Product Description****废气连续监测系统/Exhaust Gas Continuous Monitoring System (M0001)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	ShipCEMS COMPACT	
测量成分/方法/Measuring Components / Method	详见附页/See additional page(s)	
测量范围/Measure Range	详见附页/See additional page(s)	
适用温度/Applicable Temperature	5-55℃	
软件版本号/Software Version	Operating (PLC):V1.4×, User Interface (HMI): V1.4×	
电源/Power Source	120-230 VA, 50/60 Hz	
防护等级/Degree of Protection	Cabinet: IP44	
系统组成/System Composition	Sample probe and heated sample line+ analyser module+PLC+HMI	

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : NP25PPP00617

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : 120-28012-1  
 试验报告日期/ Test Report Date : 2020-12-15  
 试验单位/ Laboratory: Force technology  
 试验单位地址/ Test Address: Venlighedsvej 4, 2970 Hørsholm, Denmark

试验报告编号/ Test Report No. : Test report T2500-30 gas analyser  
 试验报告日期/ Test Report Date : 2023-06-06  
 试验单位/ Laboratory: Norsk Analyse AB  
 试验单位地址/ Test Address: Nyängsgatan 5, SE-664 34 Grums, Sweden

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

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:  
 认可后的产品由制造厂检验合格后签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。  
 After approval, product inspection should be carried out by the Manufacturer. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

**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. 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 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. This cert was issued to Norsk Analyse AS, address: Wirgenesvei 10, 3157 Barkaker, Norway. The manufacturing is Norsk Analyse AB, address: Nyängsgatan 5, 66434 Grums, Sweden.

2. 产品描述/Product description:

ShipCEMS COMPACT comprises all main components in one cabinet and For CEMS applications the system is made for 1-stream system, continuous monitoring SO<sub>2</sub> and CO<sub>2</sub>. For raw gas applications and with a multiplexer installed, the system can handle multiple streams and also monitor the raw gas content.

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.

4. 本证书由原型式认可证书 (No. GB23PTB00035) 变更。

This certificate is modified from the previous Type Approval Certificate No. GB23PTB00035.

5. The ShipCEMS COMPACT marine continuous emission monitoring system shall be installed, calibrated and operated in compliance with the manufacturer's instructions and in accordance with the requirements of CCS rules and NO<sub>x</sub> Technical Code 2008. Correct configuration and set up for each delivery to be tested during commissioning after installation.

6. The operating ambient temperature should be +5 to +55° C for the sensor and the exhaust gas temperature max. 550°C at the probe.

7. When the hardware as well as software is revised (affecting all future deliveries), CCS is to be informed by forwarding updated hardware and software version documentation.

**中国船级社哥德堡办事处**

**CCS Gothenburg Office**

注：本证书含有附页，共1页

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

## 产品明细/Product Description

Part No.	Analyser Module Type	Range(Span)	Components
141632	SSC-AM-SO2-CO2 (T2000)	0-200ppm	SO2
		0-15%	CO2
141633	SSC-AM-ALL (T2500)	0-200ppm	SO2
		0-15%	CO2
		0-2000ppm	NO
		0-500ppm	NO2
		0-2000ppm	CO
141634	SSC-AM-ALL+CH4(T2500)	0-200ppm	SO2
		0-15%	CO2
		0-2000ppm	NO
		0-500ppm	NO2
		0-2000ppm	CO
		0-10000ppm	CH4

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