

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

Draeger Safety AG & Co. KGaA

地址/Address

Revalstrasse 1, 23560 Luebeck, Germany

产品名称/Product

气体检测变送器
Gas Detection Transmitter

认可标准/Approval Standard

- 中国船级社《钢质海船入级规范》第4篇第1章
Chapter 1, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships
- 中国船级社《钢质海船入级规范》第6篇第3章
Chapter 3, Part Six of China Classification Society Rules for the Classification of Sea-going Steel Ships
- 中国船级社《钢质海船入级规范》第7篇第2章
Chapter 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships

用于/Intended for

船舶/Ships

产品明细/Product Description

气体探测器/Gas Detector (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	Polytron 8100 EC, Polytron 8200 CAT, Polytron 8310 IR, 8700 IR, 8720 IR	
产品名称/Product Name	Gas transmitter for monitoring concentrations of combustible gases and vapours and oxygen	
外壳防护等级/Degree of Protection of Enclosure	up to IP67	
探测气体种类/Detectable Gas Species	Toxic gases, Oxygen, Flammable Gases and Vapours, Carbon Dioxide	

证书有效期至/This Certificate is valid until 2031年06月14日/ Jun. 14,2031

发证机构 中国船级社汉堡分社
Issued by CCS Hamburg Branch

签发日期
Date

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 certificate.



防爆标志/Explosion-Proof Marking	see others	
额定电压/Rated Voltage		
软件版本号/Software Version	4. x. x	
电源/Power Source	10 to 30 V DC	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP17A02409

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 418.347.1-3 Rev.0
 试验报告日期/ Test Report Date : 2018-12-10
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19a, 23966 Wismar, Germany

试验报告编号/ Test Report No. : 416.287.2 Rev.0
 试验报告日期/ Test Report Date : 2016-10-23
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19a, 23966 Wismar, Germany

试验报告编号/ Test Report No. : 416.173.2 Rev.0
 试验报告日期/ Test Report Date : 2016-09-29
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19a, 23966 Wismar, Germany

试验报告编号/ Test Report No. : 416.172.2 Rev.0
 试验报告日期/ Test Report Date : 2016-09-12
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19a, 23966 Wismar, Germany

试验报告编号/ Test Report No. : 412.220.2 Rev.0
 试验报告日期/ Test Report Date : 2013-02-14
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19a, 23966 Wismar, Germany

试验报告编号/ Test Report No. : 412.220.1
 试验报告日期/ Test Report Date : 2012-09-20
 试验单位/ Laboratory: CEcert GmbH
 试验单位地址/ Test Address: Alter Holzhafen 19a, 23966 Wismar, Germany

试验报告编号/ Test Report No. : 2012-0596-VU
 试验报告日期/ Test Report Date : 2013-03-14
 试验单位/ Laboratory: AKUVIB Engineering and testing GmbH
 试验单位地址/ Test Address: Sinterstrasse 6, 44795 Bochum, Germany

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. 本证书由原型式认可证书 (No. HB22PTB00012_03) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. HB22PTB00012_03.

2. 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.

3. Detectable Kinds of Gas.

Polytron 8100 EC: Toxic gases and Oxygen, dependent on the sensor used;

Polytron 8200 CAT, Polytron 8310 IR, 8700 IR: Flammable Gases and Vapours;

Polytron 8720 IR: Carbon Dioxide.

Measure Range:

Polytron 8100 EC, 0 to 5...25% O₂

Polytron 8200 CAT, 8310 IR, 8700 IR, 0 to 100% LEL

Polytron 8200 CAT, 0 to 10% LEL

Polytron 8720 IR, 0 to 10% CO₂

Output Signal: 4 to 20 mA, 3x Relay, HART etc.

4. Ex-Proof parameters:

II 2 G Ex db IIC T6/T4 Gb bzw.

II 2 G Ex db eb IIC T6/T4 Gb bzw.

II 2 D Ex tb MIC T80° C/T130° C Db bzw.

II 2G Ex db ia IIC T6/T4 Gb bzw.

II 2G Ex db eb ia IIC T6/T4 Gb bzw.

II 2 G Ex db [ia] IIC T6/T4 Gb bzw.

II 2 G Ex db ia [ia] IIC T6/T4 Gb bzw.

II 2 G Ex db eb [ia] IIC T6/T4 Gb bzw.

II 2 G Ex db eb ia [ia] IIC T6/T4 Gb bzw.

II 2 D Ex tb [ia] INC T135° C Db

本认可产品的防爆性能参数基于制造厂提交的防爆合格证证书号：，非中国船级社检验。

The Ex-Proof parameters of the approved products originate from Ex- Certificate received from manufacturer, ExCertificate: , not approved/inspected by CCS.

本认可产品应持有有效的防爆合格证，否则本型式认可证书将自动失效。

This Type Approval Certification will be invalid if the approved products do not hold valid ExCertificate.

中国船级社汉堡分社
CCS Hamburg Branch