



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
TJ21PTB00026

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

麦克传感器股份有限公司  
Micro Sensor Co.,Ltd.

地址/Address

陕西省宝鸡市高新开发区英达路18号  
No.18 YingDa Road New & High-Tech Development Zone Baoji City Shaanxi Province,China

产品名称/Product

电磁流量计  
Electromagnetic Flow Meter  
流量计  
Flow Meter

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》(2021)及其修改通报第3篇第2章  
Chapter 2, Part Three of China Classification Society Rules for Classification of Sea-Going Steel Ships 2021 and its Amendments
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章  
Chapter 1, Part Four of China Classification Society Rules for Classification of Sea-going Steel Ships 2021 and its Amendments
3. 中国船级社《钢质海船入级规范》(2021)及其修改通报第7篇第2章  
Chapter 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships 2021 and its Amendments

证书有效期至/ This Certificate is valid until 2025年10月17日/ Oct. 17,2025

发证机构/ Issued by 中国船级社天津分社  
CCS Tianjin Branch

签发日期/ Date 2021年10月18日  
Oct. 18,2021

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。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.



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:P021-17420648

**用于/Intended for**

船舶与海上设施/Ships and Offshore Installations  
不适用于LNG介质流量测量/Not applicable to LNG medium flow measurement

**产品明细/Product Description****流量计/Flow Meter (M0001)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	MFE600E	
介质种类/Kind of Medium	导电液体 Electrically conductive liquid	
额定电压/Rated Voltage	AC 220 V (分体式Split type/一体式Integrated type) DC 24 V (分体式Split type)	
精度/Accuracy	±0.5%	
直径/Diameter	见附页 See additional page	
最大工作压力/Max. Working Pressure	见附页 See additional page	
最高工作温度/Maximum Operating Temperature	120	°C
测量范围/Measure Range	见附页 See additional page	

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : TJ21PPP20015

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : H202106234562-01

试验报告日期/ Test Report Date : 2021-08-16

试验单位/ Laboratory: 广州广电计量检测股份有限公司 Guangzhou GRG Metrology & Test Co., Ltd.

试验单位地址/ Test Address: 中国广东省广州市天河区黄埔大道西平云路163号 No.163, Pingyun Road, Huangpu West Avenue, Tianhe District, Guangzhou, Guangdong, China

试验报告编号/ Test Report No. : E202106234929-2

试验报告日期/ Test Report Date : 2021-10-09

试验单位/ Laboratory: 广州广电计量检测股份有限公司 Guangzhou GRG Metrology & Test Co., Ltd.

试验单位地址/ Test Address: 中国广东省广州市天河区黄埔大道西平云路163号 No.163, Pingyun Road, Huangpu West Avenue, Tianhe District, Guangzhou, Guangdong, China

试验报告编号/ Test Report No. : E202106234929-1-G1, E202106234929-3

试验报告日期/ Test Report Date : 2021-10-11

试验单位/ Laboratory: 广州广电计量检测股份有限公司 Guangzhou GRG Metrology & Test Co., Ltd.

试验单位地址/ Test Address: 中国广东省广州市天河区黄埔大道西平云路163号 No.163, Pingyun Road, Huangpu West Avenue, Tianhe District, Guangzhou, Guangdong, China

试验报告编号/ Test Report No. : NBJZ21070417

试验报告日期/ Test Report Date : 2021-07-30

试验单位/ Laboratory: 温州市质量技术监督检测科学研究院 Wenzhou Quality and Technology Testing Research Institute

试验单位地址/ Test Address: 温州经济技术开发区滨海园区十一路2408号 NO.2408, shiyi Road, Binhai District, Economic and Technological Development Zone, Wenzhou.

试验报告编号/ Test Report No. : 2021001

试验报告日期/ Test Report Date : 2021-09-30

试验单位/ Laboratory: 麦克传感器股份有限公司 Micro Sensor Co., Ltd.

试验单位地址/ Test Address: 陕西省宝鸡市高新开发区英达路18号 No.18 YingDa Road New-& High-Tech Development Zone Baoji City Shaanxi Province, China

**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:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 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 in accordance with the product inspection scheme approved by the Society. 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. 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.

2、本认可产品生产场所为其分场所，位于陕西省宝鸡市金台区宝福路101号。

The production site of the approved product is its sub-site, the location is No. 101 Baofu Road Jintai District Baoji City Shaanxi Province.

**中国船级社天津分社**  
**CCS Tianjin Branch**

注：本证书含有附页，共1页

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

## 电磁流量计参数

## Parameter of Electromagnetic Flow Meter

直径 Diameter (mm)	测量范围 Measure Range (m <sup>3</sup> /h)	最大工作压力 Max. Working Pressure (MPa)	外壳防护等级 Enclosure protection class
DN6	0.05~0.7	4.0	一体式/Integrated type: IP65  分体式/Split type: IP68
DN10	0.14~2		
DN15	0.4~5		
DN20	0.6~8		
DN25	0.9~12		
DN32	1.5~20		
DN40	2.3~30		
DN50	3.5~50		
DN65	6~80		
DN80	9~120		
DN100	14~200	1.6	
DN125	22~310		
DN150	32~450		
DN200	57~800	1.0	
DN250	88~1200		
DN300	170~1800		
DN350	240~2500		
DN400	310~3200		
DN450	400~4000		
DN500	500~5000		

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