



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
XA25PTB00010

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

陕西省宝鸡市渭滨区英达路18号
No. 18, Yingda Road, Weibin District, Baoji City, Shaanxi Province, China

产品名称/Product

压力变送器, 液位变送器, 温度变送器
Pressure Transmitter, Level Transmitter, Temperature Transmitter

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4篇第1章
Chapter 1, Part Four 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7篇第1、2章
Chapter 1 and 2, 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 2027年03月27日/ Mar. 27,2027

发证机构/中国船级社西安办事处
Issued by CHINA CLASSIFICATION SOCIETY Office

签发日期 2025年08月29日
Date Aug. 29,2025

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 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:P025-19986533

产品明细/Product Description**压力变送器/Pressure Transmitter (M0001)**

名称/Name	属性（值）/Value	单位/Unit
产品名称/Product Name	见附页 See additional page	
型号/Type	见附页 See additional page	
精度/Accuracy	见附页 See additional page	
测量范围/Measure Range	见附页 See additional page	
额定电压/Rated Voltage	见附页 See additional page	
外壳防护等级/Degrees of Protection	见附页 See additional page	
防爆标志/Explosion-Proof Marking	见附页 See additional page	

温度变送器/Temperature Transmitter (M0001)

名称/Name	属性（值）/Value	单位/Unit
产品名称/Product Name	见附页 See additional page	
型号/Type	见附页 See additional page	
精度/Accuracy	见附页 See additional page	
测量范围/Measure Range	见附页 See additional page	
额定电压/Rated Voltage	见附页 See additional page	
防护等级/Degree of Protection	见附页 See additional page	
防爆标志/Explosion-Proof Marking	见附页 See additional page	

液位变送器/Level Transmitter (M0001)

名称/Name	属性（值）/Value	单位/Unit
产品名称/Product Name	见附页 See additional page	
型号/Type	见附页 See additional page	
精度/Accuracy	见附页 See additional page	
测量范围/Measure Range	见附页 See additional page	
额定电压/Rated Voltage	见附页 See additional page	
外壳防护等级/Degrees of Protection	见附页 See additional page	
防爆标志/Explosion-Proof Marking	见附页 See additional page	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : 见附页/see additional pages

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : EM201500398-2

试验报告日期/ Test Report Date : 2015-05-25

试验报告编号/ Test Report No. : MSJY2015005

试验报告日期/ Test Report Date : 2016-06-16

试验报告编号/ Test Report No. : E201611140882-1、H201611142789-01

试验报告日期/ Test Report Date : 2017-01-18

试验报告编号/ Test Report No. : MSJY2016011

试验报告日期/ Test Report Date : 2017-02-04

试验报告编号/ Test Report No. : MSJY2019003

试验报告日期/ Test Report Date : 2019-04-02

试验报告编号/ Test Report No. : H202303287125-01

试验报告日期/ Test Report Date : 2023-05-17

试验报告编号/ Test Report No. : E202303286241-2

试验报告日期/ Test Report Date : 2023-05-18

试验报告编号/ Test Report No. : 202304002

试验报告日期/ Test Report Date : 2023-05-28

试验报告编号/ Test Report No. : E202307255828-1

试验报告日期/ Test Report Date : 2023-08-22

试验报告编号/ Test Report No. : H202307253026-01、202308001

试验报告日期/ Test Report Date : 2023-08-25

试验报告编号/ Test Report No. : 202504002

试验报告日期/ Test Report Date : 2025-04-21

试验报告编号/ Test Report No. : E202506241828-1

试验报告日期/ Test Report Date : 2025-07-21

试验报告编号/ Test Report No. : H202506244897-01

试验报告日期/ Test Report Date : 2025-07-25

试验报告编号/ Test Report No. : MS202412PT-T-101

试验报告日期/ Test Report Date : 2025-08-11

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

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.

本证书由原型式认可证书（No. XA25PTB00006）变更并替代原证书。
This Certificate is modified from and supersedes the previous Type Approval Certificate No. XA25PTB00006.

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（签发机构、证书号、防爆标准见证书附页），非中国船级社认可。

The Ex-Proof parameters of the approved products originate from Ex- Certificate received from manufacturer (Issuing Body, Ex- Certificate No., Standards for Ex- Proof see additional page), not approved by CCS.

认可产品应持有有效的防爆合格证，否则该产品的认可将自动失效。

This type approval certificate will be invalid if the product doesn't hold valid Ex-Certificate.

中国船级社西安办事处**CCS Xi An office**

注：本证书含有附页，共4页

Note: The certificate is attached with additional 4 page(s)

产品明细/Product Description

产品明细 Particulars 产品名称 Product Name	型号 Type	精度 Accuracy	测量范围 Measure Range	防护等级 Degree of Protection of Enclosure	工作电压 Working Voltage	防爆标志 Explosion-Proof Marking	图纸批准号 Drawings Approval No.
液位变送器 Level Transmitter	MPM426W	±0.1%FS ±0.25%FS ±0.5%FS	0~200mH ₂ O	主体/Main body: IP68 接线盒/Junction box、电子壳体 /Electronic shell: IP65	15~28VDC	Ex ia IIC T6 Ga	TJ15A00018
	MPM416W				15~28VDC		TJ15A00018
	MPM4700				10~28VDC	Ex ia IIC T4 Ga	TJ15A00018
	MPM489W		0~4mH ₂ O	10~28VDC	Ex ia IIC T6 Ga	TJ15A00018	
	MPM416WK			15~28VDC		TJ15A00018	
	MPM416WRK			0~20mH ₂ O	15~28VDC	——	TJ15A00018
	压力变送器 Pressure Transmitter		MPM480	±0.1%FS ±0.25%FS ±0.5%FS	-0.1~60MPa	IP65	10~28VDC
MPM483		15~28VDC	Ex ia IIC T6 Ga Ex db IIC T6 Gb				TJ15A00018
MPM489		-0.1~60MPa	IP66		10~28VDC	Ex ia IIC T6 Ga Ex db IIC T6 Gb (适用于 B2 型电缆进线结构/ Suitable for B2 type cable inlet structure)	TJ15A00018
MPM4730			IP65		10~28VDC	Ex ia IIC T4 Ga	TJ15A00018
MDM490		0~2MPa	IP65		15~28VDC	Ex ia IIC T6 Ga	TJ15A00018
MDM3051S		-0.1~60MPa	IP65		12~42VDC 15~42VDC (带液晶背光显示表头/With backlit LCD header)	Ex ia IIC T6/T5/T4 Ga Ex ia IIIC T85℃ /T95℃/T130℃ Db Ex db IIC T6/T5/T4 Gb Ex tb IIIC T80℃ /T90℃/T130℃ Db	TJ16A00049

		MDM7000	$\pm 0.05\%FS$ $\pm 0.075\%FS$ $\pm 0.1\%FS$ $\pm 0.2\%FS$ $\pm 0.25\%FS$	-3~40MPa	IP67	13~44VDC	Ex ia IIC T4 Ga Ex db IIC T6 Gb	TJ25PPP20039
		MDM6000	$\pm 0.05\%FS$ $\pm 0.075\%FS$ $\pm 0.1\%FS$ $\pm 0.2\%FS$	-3MPa~100MPa	IP67	10.5V~55VDC	——	TJ25PPP20092
温度变送器 Temperature Transmitter		MTM4831	$\pm 0.25\%FS$ $\pm 0.5\%FS$ $\pm 1.0\%FS$	-200℃~500℃ (PT100热电阻 /Thermal resistance) -50℃~200℃ (PT1000热电阻 /Thermal resistance) -40℃~1200℃(K 型热电偶 /Thermocouple)	IP67	10~30VDC 15~30VDC (带表 头/With display header)	Ex ia IIC T6 Ga Ex db IIC T6 Gb	TJ22PPP20039

防爆合格证信息/Ex- Certificate Information

产品型号 Product Type	签发机构 Issuing Body	证书号 Ex- Certificate No.	防爆标准 Standards for Ex- Proof
MPM426W	国家防爆产品质量监督检验中心 (天津) National Ex-Product Quality Supervision and Inspection Center (TianJin)	CE25. 2173	GB/T 3836. 1-2021
MPM416W、MPM416WK		CE25. 2174X	GB/T 3836. 4-2021
MPM4700、MPM4730		CE24. 1266	GB/T 3836. 1-2021 GB/T 3836. 4-2021
MPM489W		CE25. 2175	GB/T 3836. 1-2021
MPM480、MDM490		CE25. 1919	GB/T 3836. 4-2021
MPM480		CE22. 1478X	GB/T 3836. 1-2021 GB/T 3836. 2-2021
MPM483		CE25. 2213X	GB/T 3836. 1-2021 GB/T 3836. 4-2021
		国家防爆电气产品质量检验检测检验中心 Supervision & Test Center of Electrical Ex-products of China	CNEx23. 2336X
MPM489	国家防爆产品质量监督检验中心 (天津) National Ex-Product Quality Supervision and Inspection Center (TianJin)	CE25. 1927	GB/T 3836. 1-2021 GB/T 3836. 4-2021
		CE24. 1490	GB/T 3836. 1-2021 GB/T 3836. 2-2021
MDM3051S	上海方圆标志质量检验检测有限公司 Shanghai Fangyuan Certification Quality Mark Testing and Inspection Co., Ltd.	CQMTi25. 0003X	GB/T 3836. 1-2021 GB/T 3836. 4-2021 GB/T 3836. 31-2021
		CQMTi25. 0004X	GB/T 3836. 1-2021 GB/T 3836. 2-2021

			GB/T 3836. 31-2021
MDM7000	国家防爆产品质量监督检验中心 (天津) National Ex-Product Quality Supervision and Inspection Center (TianJin)	CE23. 7688X	GB/T 3836. 1-2021 GB/T 3836. 4-2021
		CE23. 6650	GB/T 3836. 1-2021 GB/T 3836. 2-2021
MTM4831	国家防爆电气产品质量检验检测中心 Supervision & Test Center of Electrical Ex-products of China	CNEx22. 1523X	GB 3836. 1-2010 GB 3836. 4-2010
		CNEx24. 2763X	GB/T 3836. 1-2021 GB/T 3836. 2-2021

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