中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
FS22PTB00025

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

CREVIS CO., LTD

地址/Address

29-4, Gigok-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

产品名称/Product

可编程输入/输出接口
Programmable I/O
网络通讯设备
Network and Communication Components

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》（2022）及其变更通告第7篇第2章
Chapter 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships 2022 and its Change Notices

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 **2025年08月29日/ Aug. 29,2025**

发证机构 中国船级社釜山分社
Issued by CCS Busan Branch

签发日期 2023年04月10日
Date Apr. 10,2023

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，可以向我社检验机构咨询。
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.

产品明细/Product Description

网络通讯设备/Network and Communication Components(M0001)

名称/Name	属性（值）/Value	单位/Unit
产品名称/Product Name	Programmable I/O	
型号/Type	Refer to the additional page	
电源/Power Source	System Power : DC 24V Field Power : DC 24V	V
外壳防护等级/Degree of Protection of Enclosure	IP20	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NP21PPP00375, NP21PPP04203, NP22PPP04490

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.： OT-228-RED-111
试验报告日期/ Test Report Date： 2022-08-26

试验报告编号/ Test Report No.： OT-228-RED-112
试验报告日期/ Test Report Date： 2022-08-26

试验报告编号/ Test Report No.： OT-218-RRD-015
试验报告日期/ Test Report Date： 2021-08-12

试验报告编号/ Test Report No.： ECU-2020-007985
试验报告日期/ Test Report Date： 2020-09-03

试验报告编号/ Test Report No.： OT-209-RRD-003
试验报告日期/ Test Report Date： 2020-09-02

试验报告编号/ Test Report No.： OT-221-RRD-030
试验报告日期/ Test Report Date： 2022-01-25

试验报告编号/ Test Report No.： OT-217-RED-115
试验报告日期/ Test Report Date： 2021-07-29

试验报告编号/ Test Report No.： FS21PTB00003
试验报告日期/ Test Report Date： 2021-07-30

试验报告编号/ Test Report No.： OT-207-RED-150
试验报告日期/ Test Report Date： 2020-07-24

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. 本证书基于原型式认可证书（No.FS21PTB00047）变更并替代原证书。

This certificate is modified from and supersedes the previous Type Approval Certificate No. FS21PTB00047.

2. 本型式认可仅包含产品明细表中所列型号的硬件。

The Type Approval only covers the hardware listed in the Product description.

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.

中国船级社釜山分社

CCS Busan Branch

注：本证书含有附页，共2页

Note: The certificate is attached with additional 2 page(s)

Product Description

FnIO M-Series Network Adapter and I/O Modules			
No	Type	Model no.	Description
1	Network Adapter	M9371	CODESYS, Programmable IO, Economic type
2	Network Adapter	M9372	CODESYS, Programmable IO, Standard type
3	Network Adapter	M9373	CODESYS, Programmable IO, Web visualization type
4	Network Adapter	M9273	MODUBS RS485 Network Adapter
5	I/O Module	M1808	Digital Input 8 Points, 120Vac, 18RTB
6	I/O Module	M1908	Digital Input 8 Points, 240Vac, 18RTB
7	I/O Module	M2738	MOS Relay Output, 8 Points, 240Vdc/ac, 0.5A, 18RTB
8	I/O Module	M2744	Relay Output 4 Points, 24Vdc/2A, 240Vac/2A, 18RTB
9	I/O Module	M2768	MOS Relay Output, , 8 Points, 24Vdc/ac, 2A, 18RTB
10	I/O Module	M2774	Form C, Relay Output 4 Points, 24Vdc/2A, 240Vac/2A, 18RTB
11	I/O Module	M2788	MOS Relay Output, 8 Points, 120Vdc/ac, 1A, 18RTB
12	I/O Module	M3708	Analog Input, 8 Channels, RTD/Resistance Input, 18RTB
13	I/O Module	M3808	Analog Input, 8 Channels, Thermocouple / mV, 18RTB
14	I/O Module	M3918	Analog Input, Differential type, 8 Channels, 0~10, 4~20, +/-20mA, 12Bit, 18RTB
15	I/O Module	M3928	Analog Input, Differential type, 8 Channels, 0~4, 0~10, +/-10V, 12Bit, 18RTB
16	I/O Module	M3938	Analog Input, Differential type, 8 Channels, 0~10, 4~20, +/-20mA, 16Bit, 18RTB
17	I/O Module	M3948	Analog Input, Differential type, 8 Channels, 0~4, 0~10, +/-10V, 16Bit, 18RTB
18	I/O Module	M5212	RS232 Serial Interface, 2 Channels, Full Duplex Type, 18RTB
19	I/O Module	M5222	RS422 Serial Interface, 2 Channels, Full Duplex Type, 18RTB
20	I/O Module	M5232	RS485 Serial Interface, 2 Channels, Half Duplex Type, 18RTB

Product List

No.	Type	Model no.	Description
1	Network Adapter	MD9289	MODBUS TCP Network Adapter(Dual Type)
2	Network Adapter	M9289	MODBUS TCP Network Adapter(Single Type)
3	Network Adapter	M9386	EtherCAT ID Type Network Adapter(Single Type)
4	Network Adapter	M9287	PROFINET Network Adapter(Single Type)
5	I/O Module	M7001	Redundancy Power
6	I/O Module	M7002	Redundancy Power
7	I/O Module	M12DF	Digital Input 16 Point, Universal (Sink or Source), 24Vdc, 18RTB
8	I/O Module	M1418	Digital Input 8 Points, Sink, 24Vdc, Diagnostic, 18RTB
9	I/O Module	M1428	Digital Input 8 Points, Source, 24Vdc, Diagnostic, 18RTB
10	I/O Module	M225F	Digital Output 16 Point, Sink, 24Vdc/0.3A, 18RTB
11	I/O Module	M226F	Digital Output 16 Point, Source, 24Vdc/0.3A, 18RTB
12	I/O Module	M2418	Digital Output 8 Points, Sink, 24Vdc, Diagnostic, 18RTB
13	I/O Module	M2428	Digital Output 8 Points, Source, 24Vdc, Diagnostic, 18RTB
14	I/O Module	M2618	Digital Output 8 Point, Sink, 24Vdc/2A, 18RTB
15	I/O Module	M2628	Digital Output 8 Point, Source, 24Vdc/2A, 18RTB
16	I/O Module	M317F	16 Channels Current Input, 0~20mA/4~20mA, 12bit, 18RTB
17	I/O Module	M319F	16 Channels Current Input, 0~20mA/4~20mA, 16bit, 18RTB
18	I/O Module	M347F	16 Channels Voltage Input, 0~10Vdc/0~5Vdc/1~5Vdc, 12bit, 18RTB
19	I/O Module	M349F	16 Channels Voltage Input, 0~10Vdc/0~5Vdc/1~5Vdc, 16bit, 18RTB
20	I/O Module	M4118	8 Channels Current Output, 0~20mA, 12bit, 18RTB
21	I/O Module	M4158	8 Channels Current Output, 0~20mA, 16bit, 18RTB
22	I/O Module	M4218	8 Channels Current Output, 4~20mA, 12bit, 18RTB
23	I/O Module	M4258	8 Channels Current Output, 4~20mA, 16bit, 18RTB
24	I/O Module	M4428	8 Channels Voltage Output, 0~10V, 12bit,18RTB
25	I/O Module	M4468	8 Channels Voltage Output, 0~10V, 16bit, 18RTB
26	I/O Module	M5914	4 Channels Current Input, 4~20mA, 16bit with Hart, 18RTB

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