



Marine & Offshore

Certificate number: 79521/A0 BV

File number: MPA2500003

Product code: 3781H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

RKMC Co.,Ltd.

NANJING - CHINA

for the type of product

FIRE DETECTION AND FIRE ALARM CONTROL UNITS

Control panel RKMC-FACP01 & Repeater panel RKMC-FAREP01 and Manual Call Point 58100-976M & 58100-971M

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

SOLAS 74 convention as amended, Regulations II-2/7, X/3,

IMO Res. MSC.97(73)-(2000 HSC code) 7, IMO Res. MSC.98(73)-(FSS code) 9, IMO MSC.1/Circ.1242, IMO Res. MSC.311(88),

IMO Res. A.1021(26),

EN 54-2 (1997) including AC(1999) and A1(2006),

EN 54-4 (1997) including AC(1999),

EN 54-11 (2001) including A1(2005),

EN 54-17 (2005) including AC(2007),

IEC 60092-504 (2016).

IEC 60533: 2015.

EC Code: 31B, 31/41B for Manual call point

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 23 Jun 2030

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 23 Jun 2025,

Jennifer Zhang

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarpn.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=2qdinv63yk>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Fixed fire detection and alarm system Control panel **RKMC-FACP01** & Repeater panel **RKMC-FAREP01** and Manual Call Point **58100-976M** & **58100-971M**. It can be used for automatic control of water-based fire extinguishing systems and it has 6 loops, each can carry up to 126 devices. By adding loop cards, can be 12 loops.

Approved Range:

Control panel	RKMC-FACP01
Environment temperature	-5°C to +55°C
Relative humidity	30% to 90%
Supply power	AC220V, 50Hz/60Hz
IP degree	IP42 with protect box
Software version	FIRE-APL V1.xx

Repeater panel	RKMC-FAREP01
Environment temperature	-5°C to +55°C
Relative humidity	30% to 90%
Supply power	DC 24V
IP degree	IP44 with protect box
Software version	RKMC-FAREP V1.xx

Manual Call Point (SCI)	58100-976M, 58100-971M
Environment temperature	-20°C to +60°C
Relative humidity	0% to 95%
Supply power	DC 17 - 28 V
IP degree	IP22 (58100-971M), IP56 (58100-976M)

2. DOCUMENTS AND DRAWINGS :

- Technical Specifications, No.RKMC-FA-techspec, dated 24-05-2023.
- RKMC-FA System description Rev0, dated 05-05-2023.
- RKMC-FA System Program Flowchart, dated 24-05-2023.
- RKMC-FA User Guide, dated 24-05-2023.
- RKMC-FA Installation and Maintenance Manual, dated 24-05-2023.
- RKMC-FA Part list, dated 24-05-2023.
- Quality plan of software, dated 05-2023.
- Manual Call Point Datasheet, dated 29-04-2025.

3. TEST REPORTS :

STIEE:

- Test Report No. 24IAS01P32D32-60007/1, dated 01-11-2024.
- Test Report No. 24IAS01P32D32-00126, dated 04-08-2024.

RKMC:

- Performance test Report RKMC-FA-PER.TEST01 RV1.1, dated 09-10-2024.
- Performance test Report RKMC-MCP-FTP01 V1.1, dated 19-09-2024.

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT** and **AUT-IMS**.
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31B, 31/41B** for Manual call point.
- 4.4 - The equipment fulfils the EMC requirements for installation in the bridge and deck zone.
- 4.5 - Each application and configuration is to be submitted to the Society's examination prior to fitting on board.
- 4.6 - Only Hardware and Firmware / Software successfully tested together in compliance with the rules as referred to in cover page, according to the declaration of the manufacturer are covered by this certificate.
- 4.7 - Any modification of the hardware, firmware or software having an impact on the product performance or functionality has to be validated with type testing.
- 4.8 - Only type approved detectors and manual call points shown to be compatible with the units should be used with them.
- 4.9 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above products are to be supplied by **RKMC Co.,Ltd.** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **RKMC Co.,Ltd.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **RKMC Co.,Ltd.** has declared to Bureau Veritas the following production site(s):

RKMC Co.,Ltd.
Building 23,
Kecheng Science South Park,
No.19 Lanhua Road,
Pukou, Nanjing
CHINA

6. MARKING OF PRODUCT :

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS :

It is **RKMC Co.,Ltd.** 's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***