Certificate No: LR26283221TA
Issue Date: 24/08/2026
Expiry Date: 23/08/2031

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**RKMC Co., Ltd.**
Address	4F, Building 23, Kecheng Science South Park, No. 19, Lanhua Road, Pukou, Nanjing, Jiangsu, 211806, China
Place of Production	RKMC Co., Ltd. 4F, Building 23, Kecheng Science South Park, No. 19, Lanhua Road, Pukou, Nanjing, Jiangsu, 211806, China
Type	Fire And Gas Detection Alarm And Control Systems
Description	RKMC-2021GDS type of fixed gas detection and sampling system
Trade Name	RKMC-2021GDS
Application	Marine applications for use in environmental categories ENV1 and ENV2 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1 July 2024 where the Test Specification is satisfactory for the intended operation.
Specified Standard	SOLAS 74 and its amendment Reg. II-2/4, Chapter 16 of FSS code where applicable. EN 50104: 2023, IMO MSC.1/Circ.1370.
Ratings	RKMC-2021GDS type of fixed gas detection and sampling system, consists of: **Control panel**: AC 220V, 50/60Hz;

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Ashwinikumar Mhamal

Electrical & Control Technical Manager - Africa, Middle East & India, Lead Specialist to Lloyd's Register Marine and Offshore India

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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Type Approval Certificate

Sampling panel：
For pump room: 6 points + Panel inside(Auto/Manual scanning), continuous scanning Type;
For water ballast tanks: 30 sample lines;
Repeater: F007, DC24V
Beacon: TGBBJ
Detectors:

MODEL	DETECTED GAS	MEASURING RANGE	EX TYPE
SD-1RI	Combustible gas	0-100%LEL	II 2G Ex db IICT6 Gb
SD-1GP	Combustible gas	0-100%LEL	II 2G Ex d IICT5 Gb
SD-1OX	O_2	0-25% VOL	II 2G Ex dbIIC T6 Gb
SD-1EC	CO/H_2S	CO: 0-300ppm H_2S: 0-100ppm	II 2G Ex d IIC T6 Gb
SD-1RI (with duct kit)	Combustible gas	0-100%LEL	II 2G Ex db IICT6 Gb
SD-1GP (with duct kit)	Combustible gas	0-100%LEL	II 2G Ex d IICT5 Gb
H3-CA	Combustible gas	0-100%LEL	Ex db IIC T4/T6 Gb
H3-RI	Combustible gas	0-100%LEL	Ex db IIC T4/T6 Gb
H3-EL	O_2	0-25% VOL	Ex db IIC T4/T6 Gb

Other Conditions

RKMC-H3 Probe is approved under MED certificate No. MED304423WS/002.

Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/ or surveyed to be installed in ships classed or intended to be classed with LR

If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21326079TA

The Design Appraisal Document TSO-26-055377-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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