Certificate No: LR2004283TA
Issue Date: 31/08/2020
Expiry Date: 20/06/2025

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	**Hoppe Marine GmbH**
Address	Kieler Str. 318, Hamburg, 22525, Germany
Type	Transmitters/Transducers
Description	Shaft power meter Comprising the following modules: MDS Transmission unit MDS 31 Sensor MDS 263 Shaft measuring block
Trade Name	MAIHAK Shaft Power Meter
Application	Marine applications for use in environmental categories ENV1 and ENV2 (general power distribution zone) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2013.
Specified Standard	Manufacturer's specification
Ratings	Power supply: 24 VDC
Additional Tests	Low temperature (0°C/16hrs)

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Thorsten Wolff

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Other Conditions Due to the use of Blue Tooth techniques the shaft power meter is not to be used for safety critical systems or essential services that are required for the propulsion of safety of the ship.

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ETS 40091-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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