



TYPE APPROVAL CERTIFICATE
No. **ELE019626XP**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Propulsion remote control system
<i>Type</i>	Kongsberg Advance Maneuvering (Autopilot M100, Joystick M50 and Autocrossing)
<i>Applicant</i>	KONGSBERG MARITIME AS - Kongsberg Maritime AS Longvafjordvegen 379 6293 Longva NORWAY
<i>Manufacturer</i>	KONGSBERG MARITIME AS - Kongsberg Maritime AS
<i>Place of manufacture</i>	Longvafjordvegen 379 6293 Longva NORWAY
<i>Reference standards</i>	IACS UR E27 Rev.1 Cyber Resilience of On-board systems and equipment, RINA Rules for Classification of Ships Pt C, Ch 3, Sec 4 & 5.

Issued in **GDAŃSK** on **June 17, 2026**. This Certificate is valid until **June 16, 2031**



B. Mejer **ON BEHALF OF**
RINA Services S.p.A.
Adam Mejer

This certificate consists of this page and 1 enclosure

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Kongsberg Advance Maneuvering (Autopilot M100, Joystick M50 and Autocrossing)

Product description:

Kongsberg Autopilot M100, Joystick M50 and Autocrossing is the latest generation of control systems for wide range of propulsion and thruster products.

The Joystick M50 is a joystick control system designed for low-speed vessel positioning and manoeuvring. The M50 operator station consists of a joystick and touchscreen display. Joystick M50 provides automated controls of position and heading for vessels and also in manual mode, the operator uses the joystick to control the vessel. Autopilot M100 provides optimal steering and speed control in all sea and weather conditions and under different vessel loads.

The details are included in RINA Plan Approval Letter PLEL/2026/53/BKU01

Testing:

Extensive Testing was conducted by Kongsberg and witnessed by RINA as per following test plan:

- 110-0053461(F) - Cyber Security Test Procedure AdvMan Mcon.pdf

Kongsberg provided documentation:

1. 110-0053460(D) Mcon & Advanced Maneuvering - Security Capabilities.pdf dated 13.12.2024, rev. D.
2. 110-0053461(F) - Cyber Security Test Procedure AdvMan Mcon.pdf dated 2024.11.21 rev. F
3. 110-0068347(A) Mcon and Advanced Maneuvering Restore procedure.pdf, dated 20-11-2024 rev. A
4. 110-0081474E Advman Asset Inventory.pdf, rev. E, dated 11.12.2025
5. 110-0081476C Advman System Topology.pdf, rev C, dated 19.06.2024
6. 110-0098175(B) Mcon & AdvMan Cyber Security Configuration Check list .pdf, rev. B, dated 21.12.2024
7. Cyber security Usermanual Advanced Maneuvering.pdf,
8. KM-GUI-0118 Guideline for Secure Development Lifecycle _SDLC_en.pdf, rev. A, dated: 21.03.2024
9. KM-PROC-0080 Change management_en.pdf, rev B, dated: 07.06.2024

GDAŃSK June 17, 2026

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