

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No: MERB00001MX Revision No:

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Heading control system (HCS)

with type designation(s) K-Bridge Autopilot

Issued to

Kongsberg Maritime AS Kongsberg, Norway

is found to comply with the requirements in the following Regulations/Standards: Regulation MSN 1874 Amendment 9,

item No. UK/4.16. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res. A.342(IX), IMO Res. A.694(17), IMO Res. MSC.191(79), IMO Res. MSC.64(67) Annex 3, IMO Res. MSC.302(87)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until 2027-11-23.

Issued at London on 2024-10-14

DNV local unit: **East & South Norway CMC**

Approval Engineer: Steinar Kristensen



Approved Body No.: 0097

for DNV UK Ltd.

Christine Mydlak-Röder **MER Service Responsible**



by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: MER 201.GBR Revision: 2023-03 www.dnv.com Page 1 of 3

[&]quot;The Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In **UK Approved Body Authorised** case limitations of use apply, these should be indicated in the Annex.



Job Id: AA004WJB
Certificate No: MERB00001MX

Revision No: 0

Product description

Kongsberg Maritime K-Bridge Autopilot system comprising the following items:

Hardware: Model/Type:

K-Bridge Operator station : As defined in separate certificate *)

Software modules:

K-Bridge System Platform SW : As defined in separate certificate *)

The K-Bridge Autopilot can be delivered in K-Bridge Console KM05 or as built in version for other consoles incl. KM18

Application/Limitation

- The installation shall be installed and tested on board according manufacturers manuals.
 See Type Examination documentation below for details.
- The HCS is found to be in compliance with the requirements for Multi Function Display (MFD), when connected in a KM network. The MFD may serve as Radar, ECDIS, back-up ECDIS, HCS, TCS and BNWAS.

Tests carried out

Performance testing: ISO 11674 (2019)

• Environmental testing: IEC 60945 (2002) incl. Corr.1 (2008)

Serial interface testing: IEC 61162-1 (2016)
 Presentation of navigation information: IEC 62288 (2021)

Bridge Alert Management:
 IEC 62923-1 (2018) and IEC 62923-2 (2018)

Form code: MER 201.GBR Revision: 2023-03 www.dnv.com Page 2 of 3

^{*)} Certificate TAA00000FJ for K-Bridge and K-Bridge Standalone system platforms (see Type Examination documentation below) in its latest revision at the date of placing the system on the market is part of this certificate. For the relevant revision see also https://approvalfinder.dnv.com



Job Id: AA004WJB MERB00001MX Certificate No:

Revision No:

Type Examination documentation

DNV	Document Id.	Rev.	Description
No			
69	110-005481	Α	Manual: Kongsberg Maritime, K-Bridge ECDIS and Planning Station Operator Manual Release 9.1
67	110-0054817	Α	Manual: Kongsberg Maritime, Conning Operator Manual Release 9.1
66	110-0054813	Α	Manual: Kongsberg Maritime, K-Bridge Autopilot Operator Manual Release 9.1
61	477915	С	Report: Kongsberg Maritime, K-Bridge and K-NAV CAM BAM Type Approval Test report
60	472253	В	Report: Kongsberg Maritime, K-Bridge Autopilot Type Approval Test Report ISO 11674 (2019)
57	419292	Α	Report: Kongsberg Maritime, K-Bridge Autopilot Type Approval Test report
56	TAA00000FJ	Latest	Certificate: DNV, K-Bridge and K-Bridge Standalone system platforms
		rev.	
33	KLM1.0061	В	Report: Kongsberg Fimas, Environmental test of Aim Safe System
29	1042001	Α	Report: Kongsberg Maritime, K-Bridge HCS Performance test report

Marking of product
The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Form code: MER 201.GBR Revision: 2023-03 www.dnv.com Page 3 of 3