



**TYPE APPROVAL CERTIFICATE**  
**No. ELE071224XP**

**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>	<b>Monitoring and control system</b>
<i>Type</i>	<b>K-Chief 700</b>
<i>Applicant</i>	<b>KONGSBERG MARITIME AS-NORWAY P.O BOX 1009,N-3194 HORTEN HORTEN NORWAY</b>
<i>Manufacturer</i>	<b>KONGSBERG MARITIME AS-NORWAY</b>
<i>Place of manufacture</i>	<b>P.O Box 1024,N-3194 Horten Horten Norway (1)</b>
<i>Reference standards</i>	<b>Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.</b>

*Issued in* **Gdańsk** on **May 8, 2024**. *This Certificate is valid until* **May 7, 2029**

**RINA Services S.p.A.**  
**Adam Mejer**

This certificate consists of this page and 1 enclosure



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K-Chief 700

**K-Chief 700 system performs the following functions:**

- Power Management
- Auxiliary machinery control
- Ballast/bunker monitoring and control
- Cargo Monitoring and control

The K-Chief 700 system is built from modular hardware components and modular application software. Any number of these modules can be composed to provide an optimal solution of a specific vessel's requirements.

**Technical Data:**

The K-Chief 700 system comprises the following modules:

	Components	Part No.
Panels	Tracker Ball Panel (TBP)	388930
	PBT Flat Version Black	8100318
	TPP Touch Pad Panel	388010
Operator Control Panels	COP-05 BU-AUT Panel	603529
	COP-05 ALC MkII	345242A2
	COP05 ALC Stand Alone	391890
	Panel ALC	603526
	Panel Input Mk3 COP 05	110-0049940
Earth Failure Indicator	EFI-16	321492
Media Converter	RMC-ST	321520
Controller	RCU 502i	421768
	RCU 601	477601
	RCU 602	383962
IO Units	RMP420	306712
	RTB 420	326843
	RMP420S	319824
	RDIOR420	306713
	RDIO420S	316564
	RMP422i	408442
	RMP422Si	408406
	RMP201-8	324400
	RSER200-4	603444
	RHUB200-5	603442
LAN to 2 CAN gateway	L2C	404654, 406381



RINA

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The K-Chief 700 system comprises the following modules:

Components	Part No.
Network component	RTL8153B-USB3.0/3.1/3.2 to 4x Gb Ethernet
Extension Alarm and Watch Call Units	WCC 600
Software Version	AIM Basis Software 8.3, 8.5, 8.6, 8.7, 8.8, 8.10 and 8.12

**Documentation:**

110-0026741B RCU601 Hardware Module Description  
 323935E RPM420S Hardware Module Description.  
 381827B WCC 600 Datasheet.  
 482250A KM module Declaration of Identity (DoI) with statements for ENV test report.  
 392044A COP05 ALC SA Assembly drawing.  
 463242B USB 3.2 to 4x Ethernet 1Gb EX-1330M, Data Sheet  
 389143B 7" Marine Touch Panel PC Hardware Module Description.  
 389994B Touch Pad Panel datasheet  
 389995C Tracker Ball Panel datasheet  
 390759A Touchpad Panel product description  
 390760A Tracker ball Panel product description  
 300984E COP-05 Input Panel Hardware Module Description  
 HW List K-Chief 700  
 330199B PBT Datasheet  
 389994C Touch Pad Panel datasheet  
 345242A2 ALC K-Chief 600 Outline Drawing  
 301028B COP-05 BU-AUT Panel Hardware Module Description  
 392044A COP05 ALC SA Assembly drawing  
 300977B COP-05 ALC Panel Hardware Module Description  
 324876I EFI-16 - Earth Fault Monitor 16 A Hardware Module Description  
 325472E RMC-ST Hardware Module Description  
 429804D RCU502i Hardware Module Description  
 408644C RCU602 Hardware Module Description  
 311165E RMP420 Hardware Module Description  
 323935E RMP420S Hardware Module Description  
 311163D RDIOR420 Hardware Module Description  
 323936H RDIO420S Hardware Module Description  
 424828B RMP422i Hardware Module Description  
 424829C RMP422Si Hardware Module Description  
 330111C RMP201-8 Hardware Module Description  
 300993J RSER200-4 Hardware Module Description  
 300994G RHUB200-5 Hardware Module Description  
 404663A L2C Outline Drawing

**Test Reports:**

DANAK-1910054 - Type approval vibration testing of COP-05 Lever Panel and COP-05 Utility Panel KM-DOC.no:318973 rev.A - dated February 2008  
 DANAK-1910025 - Supplementary Type approval of Input Panel - dated 22 January 2008  
 DANAK-198195 - Type approval testing of KM Common Operator Panels - dated 19 December 2005  
 DANAK-198195 Rev.1 - Type approval testing of KM Common Operator Panels - dated 15 June 2007



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### Test Reports:

DANAK 1916085 Test for Marine Type Approval of L2C- Dated 15 February 2016  
DANAK-1912904 Test for Marine Type Approval of WCC 600 - Dated 15 March 2013  
DANAK 1910541 Type approval testing of RCU501, RHUB200-5, RMP420 & RSER200-4 - Dated 11 June 2009  
DANAK 1910121 Type approval testing of RDIO401S and RDIO420S - Dated 27 March 2008  
DANAK 198696 Type approval testing of RMP420 and RDIOR420 - Dated 15 March 2007  
DANAK 1911658 Type approval testing of RMP420 Rev.2 - Dated 08 December 2011  
DANAK 1914440 Test for Marine Type Approval of E38-96A29D-E002 trackball - Dated 05 December 2014  
DANAK 1910264 Test for Marine Type Approval of EFI - Dated 01 September 2008  
DANAK 1910281 Test for Marine Type Approval of EFI-16 - Dated 14 October 2008  
Nemko E21088.03 Upgrade all HW to IACS E10 Rev.8:2021 - Dated 2021-10-28.  
Nemko- REP019643 Test report Panel Input Mk3 COP 05 - dated 17 January 2024  
Nemko - E19179.01 Test report Computer Adapters - dated 25 March 2020  
Nemko - REP008558 Remote Controller Unit RCU601 - dated 16 March 2023  
Nemko E14127.00 Type approval test of WCC600 - Dated 2014-05-21.  
Nemko E18040.01 Flame Retardant IACS E10.2014 C700 Products - Dated 2019-07-04.  
Nemko E13144.03 Type approval test of RMP422i, RMP422Si - Dated 2017-08-17.  
Nemko E15165.01 Type approval test of RCU602 and RMC-ST - Dated 2017-04-28.  
SP 3P08182 Type approval test of PCP Pointer Carrier Panel - Dated 02 February 2015

### Alternative manufacturers:

Kongsberg Maritime Korea Ltd, 1058-7, Dalsan-ri, Jungkwan-myeon, Gijang-gun, 619-961, Busan, Korea  
Kongsberg Maritime China Ltd - Kongsberg Maritime China Waigaoqiao Ltd., 136 North Fute Road, China (Shanghai), Pilot Free Trade Zone, 200131 Shanghai, China  
Kongsberg Maritime China Jiangsu Ltd, 1-2F No 711 Changjiang Road, Runzhoud district, Jiangsu Province, P.C. 212002 Zhenjiang, China

### Retentions:

The validity of the Type Approval is maintained if any implementations / modifications are reported, including changing in Hardware and Software; moreover tests are to be provided in order to:

- Make sure that such modifications do not affect the functionality of the system,
- Verify that no major modifications are introduced in the system structure (HW/SW)

Traceability of Hardware and Software version/release is to be ensured for each installation/application

*This certificate annuls and replaces the previous one n° ELE133723XG.*

**Gdańsk May 8, 2024**

RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova  
Tel +39 010 53851  
Fax +39 010 5351000

