



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA25394M

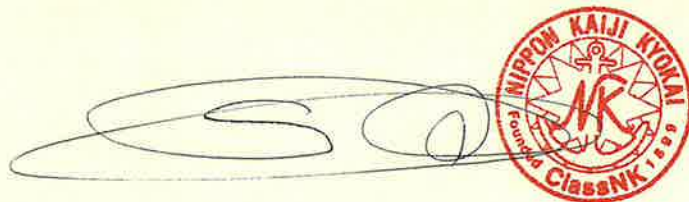
This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Applicant: **Kongsberg Maritime AS**
Manufacturer: **Kongsberg Maritime Korea Ltd,
Kongsberg Maritime China Ltd,
Kongsberg Maritime China Jiangsu Ltd,
Kongsberg Maritime AS, Horten**
Place of Manufacturing: **Refer to the attached sheet 1/4**
Product description: **Marine Automation System**
Model: **K-Chief, K-Chief 700, K-Safe**
Approval No.: **25A017**
Valid until: **4 June 2030**

The details are described in the attached sheet(s).

Issued at Tokyo on 5 June 2025.



S. Oishi
S. Oishi
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Manufacturer & Place of Manufacturing:

Manufacturer	Place of Manufacturing
Kongsberg Maritime Korea Ltd	9-7, Sandan 3-ro, Jeonggwan-eup, Gijang-gun, Busan, Korea
Kongsberg Maritime China Ltd	136 North Fute Road, China (Shanghai) Pilot Free Trade Zone 200131 Shanghai, China
Kongsberg Maritime China Jiangsu, Ltd	No.711 of Changjiang Road, Runzhou Industry Park, Zhengjiang, China, 212002
Kongsberg Maritime AS, Horten	Bekkajordet 8A, NO-3189 Horten, Norway

Specification & documents:

1. Particulars:

Power supply : 110/220 VAC, 24 VDC

2. Components and reference drawings:

Components	Drawing No.	Part No.
Operator Control Panels		
Panel Input Mk3 COP 05 * ¹	300984	110-0049940
COP05 ALC Stand Alone * ¹	392044	391890
Panel ALC * ¹	300977	603526
COP-05 BU-AUT Panel * ¹	301028	603529
COP-05 ALC MkII * ¹	345242	344687
Earth Failure Indicator		
EFI-16 * ¹	324876	321492
Media Converter		
RMC-ST * ¹	325472	321520
Watch Call		
WCC 600 * ²	374549	373860
Controller		
RCU 602	408644	383962
RCU 601	110-0026741	477601
RCU 502i	429804	421768

- To be continued -

Components		Drawing No.	Part No.
IO Units			
	RTB 420 * ¹	326849	326843
	RMP420	311165	306712
	RMP420S * ¹	323935	319824
	RDIOR420 * ¹	311163	306713
	RDIO420S * ¹	323936	316564
	RMP422i	424828	408442
	RMP422Si	424829	408406
	RMP200-8 * ¹	300992	603443
	RSER200-4 * ¹	300993	603444
	RMP201-8 * ¹	330111	324400
	RHUB200-5 * ¹	300994	603442
Panels			
	Tracker Ball Panel (TBP)	389995	388930
	PCP- Pointer Carrier Panel	385694	385675
	Panel BU DP * ¹	300983	603530
	ALC NAV * ¹	301021	603527
	BU NAV * ¹	301026	603528
	BU TC * ¹	301025	603531
	ALC NAV Stand Alone * ¹	383188	378937
LAN to CAN Module			
	L2C * ²	404663	404654, 406381
Network Component			
	RTL8153B-USB3.0/3.1/3.2 to 4x Gb Ethernet * ²	463242	446030

K-Chief Datasheet

K-Chief Product Description

(Doc No. 493992 Rev. A)

K-Chief 700 Product Description

(Doc No. 304844 Rev. D)

K-Chief 700 Operator Manual AIM Release 8.6

(Doc No. 338309 Rev. A)

K-Safe Datasheet

(Doc No. 350840 Rev. A)

K-Safe Product Description

(Doc No. 163878 Rev. I)

K-Safe (OS) Operator Manual Release 8.6

(Doc No. 411129 Rev. A)

Software Quality plan and Life Cycle activities

(Doc No. 434902 Rev. B)

for K-Chief, K-Chief 700 and K-Safe

- To be continued -

3. Documentation and Test Reports:

SP Test Report	(Doc No. 3P08182-1 Rev. 1, 2014-09-05)
DELTA Test Report	(Doc No. DANAK-197329, 2004-01-30)
DELTA Test Report	(Doc No. DANAK-197561, 2004-08-09)
DELTA Test Report	(Doc No. DANAK-197724, 2004-12-07)
DELTA Test Report	(Doc No. DANAK-198508 Rev. 1, 2006-10-17)
DELTA Test Report	(Doc No. DANAK-198696, 2007-03-15)
DELTA Test Report	(Doc No. DANAK-198195 Rev. 1, 2007-06-15)
DELTA Test Report	(Doc No. DANAK-1910121, 2008-03-27)
DELTA Test Report	(Doc No. DANAK-1910264, 2008-09-01)
DELTA Test Report	(Doc No. DANAK-1910281 Rev. 1, 2008-09-19)
DELTA Test Report	(Doc No. DANAK-1910280, 2008-09-19)
DELTA Test Report	(Doc No. DANAK-1910541, 2009-06-11)
DELTA Test Report	(Doc No. DANAK-1910830, 2010-03-19)
DELTA Test Report	(Doc No. DANAK-1911658 Rev. 1, 2011-12-08)
DELTA Test Report	(Doc No. DANAK-1912904, 2013-03-15)
DELTA Test Report	(Doc No. DANAK-1914440 Rev. B, 2015-02-04)
DELTA Test Report	(Doc No. DANAK-1916085 Rev. A, 2016-02-15)
Nemko Test Report	(Doc No. E14127.00, 2014-05-21)
Nemko Test Report	(Doc No. E15165.01, 2017-04-28)
Nemko Test Report	(Doc No. E13144.03, 2017-08-17)
Nemko Test Report	(Doc No. E18081.01, 2019-02-19)
Nemko Test Report	(Doc No. E19179.01, 2020-03-25)
Nemko Test Report	(Doc No. E18040.01, 2021-10-27)
Nemko Test Report	(Doc No. E21088.03, 2021-10-28)
Nemko Test Report	(Doc No. REP008558, 2023-03-16)
Nemko Test Report	(Doc No. REP019643, 2024-01-17)
Nemko Test Report	(Doc No. REP019643, 2024-01-17)

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.9 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test ($70^{\circ}\text{C} \times 16$ hours)		X
Damp heat test		X
Vibration test ($0.7\text{g} \times 2$ hours, Note 1)		X
Inclination test		--
Cold test ($-15^{\circ}\text{C} \times 16$ hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

(Note 1) Vibration test of environmental test for components with *¹ / *² mark were tested by the following test condition. (*¹ : $1.0\text{g} \times 2$ hours, *² : $4.0\text{g} \times 2.5$ hours)

2. Approval conditions:

The product is not allowed to be installed on open decks.

- The End -