



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA25296M

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 600**
Approval No.: **04A050**
Valid until: **18 January 2028**

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

Issued at Tokyo on 28 April 2025.



S. Oishi
General Manager
Machinery Department

Note: (1) The scope of the type approval has been limited to K-Chief 600.

(2) 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 : AC 100~240 V, DC 24 V

2. Components and reference drawings:

Components		Drawing No.	Part No.
Operator Control Panels			
	COP 05 Control Room Panel - CRP	301028	330952
	COP 05 ALC Stand Alone	392044	391890
	COP 05 Alarm and Command Panel - ALC	300977	344687
	COP 05 Mk3 Input Panel - INP	300984	110-0049940
Panels			
	Tracker Ball Panel - TBP	389995	388930
	PBT Flat Version Black	330199	8100318
	Touch Pad Panel - TPP	389994	388010
Controller unit			
	Segment Controller unit - SCU	339779	329785
Distributed Processing Units (DPU)			
	Remote Analog input Module - RAi-16xe(*)	336081 341333	329714
	Remote Digital output Module - RDo-16xe(*)	336078 341336	329699
	Remote Analog TC input Module - RAi-10tc(*)	HA451000 330186	8100161

- To be continued -

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Attached sheet -2/4 to the Certificate No. TA25296M

Components		Drawing No.	Part No.
	Remote Digital input Module - RDi-32xe(*)	341335	333523
	Remote Digital input Module - RDi-32Axe(*)	341335	333824
	Remote Analog output Module - RAo-8xe(*)	341334	333505
	Remote Digital I/O Module - RIO-C2xe(*)	336079 341338	333346
	Process Segment Starcoupler - PSS(*)	330194	8100184
	Generator Protection Module - C3-Gpxe	341339	334893
	Generator Monitoring and Control - C4xe	341340	334894
	Sensor Interface Unit - SIUxe(*)	350497	350928
	Power Switch over unit - PSO-P(*)	340332	8100334
Ixxat CAN Adapter			
	CAN-Ethernet Gateway (DCEG) - CANbridge IXXAT (CEG)	342284 345408	4604600
LAN to CAN module			
	L2C	404663	404654 406381
Network component			
	RTL8153B-USB3.0/3.1/3.2 to 4x Gb Ethernet	463242	446030
Extension Alarm and Watch Call Units			
	WCC 600	374549	373860

- To be continued -

3. Documentation and Test Reports:

Revision History for C20 System SW (V10) Software : 311245

Release note for K-Chief 600 HMI

Software quality plan C600

Revision History for K-Chief 600 / AutoChief 600 Software 359018.12

Product description PB4 Rev. A

DELTA Test Report	(Doc No. DANAK-194157, 1998-11-03)
DELTA Test Report	(Doc No. DANAK-194874, 1999-12-21)
DELTA Test Report	(Doc No. DANAK-197329, 2004-01-30)
DELTA Test Report	(Doc No. DANAK-197536, 2004-07-06)
DELTA Test Report	(Doc No. DANAK-197538, 2004-07-06)
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-198468 Rev. 1, 2007-06-15)
DELTA Test Report	(Doc No. DANAK-198195 Rev. 1, 2007-06-15)
DELTA Test Report	(Doc No. DANAK-198234 Rev. A, 2007-08-04)
DELTA Test Report	(Doc No. DANAK-1910475 Rev. B, 2009-11-27)
DELTA Test Report	(Doc No. DANAK-1910740, 2009-12-18)
DELTA Test Report	(Doc No. DANAK-1910922, 2010-06-11)
DELTA Test Report	(Doc No. DANAK-1910979, 2010-07-13)
DELTA Test Report	(Doc No. DANAK-1911279, 2011-02-14)
DELTA Test Report	(Doc No. DANAK-1911307 Rev. A, 2011-03-14)
DELTA Test Report	(Doc No. DANAK-1911846 Rev. 1, 2012-03-05)
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. 1916085 Rev. A, 2016-02-15)
Nemko Test Report	(Doc No. E14127.00, 2014-05-21)
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. REP019643, 2024-01-17)
SP Test Report	(Doc No. 3P08182 Rev. 1, 2014-09-05)

- 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°C × 16 hours)		X
Damp heat test		X
Vibration test		X
Inclination test		--
Cold test		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		--

2. Approval conditions:

- (1) The product is not allowed to be installed on open decks.
- (2) As for vibration test of environmental test, components with (*) mark were tested at acceleration $\pm 4.0g$ and others were tested at acceleration $\pm 1.0g$ or $\pm 0.7g$.

- The End -