



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT/ COMPUTER BASED SYSTEMS

Certificate No.TA19275M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1 and Chapter 8, 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

Manufacturer:	KEI SYSTEM CO.,LTD.
Place of Manufacturing:	1-1-5 Ikuno-nishi, Ikuno-ku Osaka, Japan
Product description:	Computer System
Model:	KEI-3240
Software No.:	K3240
Category:	II (Data Logger and Valve Remote Control System)
Approval No.:	04A037 / 19CP005
Valid until:	29 July 2020

This certificate is subject to the conditions specified in the attached sheets.

Issued at Tokyo on 9 May 2019.


T. Shimada
General Manager
Machinery Department



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

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Attached sheet -1/3to the Certificate No.TA19275M

Specification & documents:

Particulars & Components:

AGU IV Host & Graphic Computer

KEI-3240A	for AC100V
KEI-3240A2	for AC220V
KEI-3240D	for DC24V

ILS System I/F Module

PC4-ILS	ILS CENTER module
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ARCNET I/F Module

PC4-ARC	ARCNET I/F module
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ILS System Local

SVA24SA	Power supply AC100V
SVA24SB	Power supply AC220V
SVA24SC24	Power supply DC24V
MBW-12R5-22	Noise filter for power line

ILS System Local Unit

ILS-DI	Contact input unit
ILS-DV	AC voltage input unit
ILS-DO	Contact output unit
ILS-AII	Current input unit
ILS-AVI	Voltage input unit
ILS-PT	3 wire PT input unit
ILS-VR4	Potentiometer input unit
ILS-BIO	Current output unit
ILS-BVO	Voltage output unit
ILS-REP	ILS line repeater unit

KEI-Key Board

ENTRY-KEY32	32Key
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Computer based systems:

- The product has been assigned Category II in accordance with the Annex D18.1.1. Part D of the Guidance for the Survey and Construction of Steel Ships, as amended by IACS UR E22 Rev.2.
- The product is satisfied requirement of the Annex D18.1.1. Part D of the Guidance for the Survey and Construction of Steel Ships, as amended by IACS UR E22 Rev.2.

- To be continued -

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Attached sheet -2/3 to the Certificate No.TA19275M

Documentation and Test Reports:

KEI-3240-111, KEI-3240-112, KEI-3240-113, PC4-ARC/01-101, PC4-ILS/01-101,
KEI-ILSLOTA-101, KEI-ILSLOTA-101, KEI-MBW12R5-101, KEI-SVA**-111,
ILS-DI1/0X-101, ILS-DVx/01-101, ILS-DO1/02-101, ILS-DO2/0X-101, ILS-AIIx/01-101,
ILS-AVIx/01-101, ILS-PTx/01-101, ILS-VR4/0X-101, ILS-BIO2/01-101,
ILS-BVOx/01-101, ILS-REP/0X-101, KEY-032/02-101, KQ1-001, KS6-01, rev.140226.m,
KQD-JT01, KQD-J002, KQD-J001, KQD-JA01, Ver3.04 2012-10-19, KQV-J001

Flame retardant material declaration: NK-TYP3240ILS-553

Document for software quality control: NK-TYP3240ILS-554

- To be continued -

Test items & approval condition:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		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		--
Pressure test (Pneumatic and Hydraulic)		X
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test		X
Inclination test		X
Cold test (Temperature 5°C × 2 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		--

2. Approval condition:

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

- The End -