



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA15452M

This is to certify that the undernoted product has 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

Manufacturer:	Kawai Electronic Innovation System Co., Ltd
Place of Manufacturing:	1-1-5 Ikuno-nishi, Ikuno-ku Osaka, Japan
Product description:	Computer System
Model:	KEI-3240

Approval No.:	04A037
Valid until:	29 July 2020

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

Issued at Tokyo on 7 August 2015.



Y. Shibata
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 -1/2 to the Certificate No. TA15452M

Specification & documents:

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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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

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.