



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA14304M

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

Manufacturer: **Kawai Electronic Innovation System Co., Ltd**
Place of Manufacturing: **1-1-5 Ikuno-nishi, Ikuno-ku Osaka, Japan**
Product description: **ETHERNET HUB**
Model: **KEI-EHUB8P01, KEI-EHUB8P02, KEI-EHUB5A01,
KEI-EHUB5A02, KEI-EHUB8A02,
KEI-EHUB5M01, KEI-EHUB8M01**

Approval No.: **09A020**
Valid until: **23 July 2019**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 11 June 2014.


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.

Specification & documents:

1. Particulars:

Power supply: AC100V: KEI-EHUB8P01, KEI-EHUB8P02
DC +24V: KEI-EHUB5A01, KEI-EHUB5A02, KEI-EHUB8A02,
KEI-EHUB5M01, KEI-EHUB8M01

2. Components and reference drawings:

Components: KEI-EHUB8P01, KEI-EHUB8P02, KEI-EHUB5A01,
KEI-EHUB5A02, KEI-EHUB8A02, KEI-EHUB5M01, KEI-EHUB8M01

Drawings: KEI-EHUB8P01-101, KEI-EHUB8P01DSK-101, KEI-EHUB8P02-101,
KEI-EHUB8P02DSK-101, KEI-EHUB5A01-101, KEI-EHUB5A01DSK-101,
KEI-EHUB5A01DIN-101, KEI-EHUB5A02-101, KEI-EHUB5A02DSK-101,
KEI-EHUB5A02DIN-101, KEI-EHUB8A02-101, KEI-EHUB8A02DSK-101,
KEI-EHUB8A02DIN-101, KEI-EHUB5M01-101, KEI-EHUB5M01DSK-101,
KEI-EHUB5M01DIN-101, KEI-EHUB8M01-101, KEI-EHUB8M01DSK-101,
KEI-EHUB5M01DIN-101

3. Documentation and Test Reports:

Test report for environmental test (DRAW No. NK-EHUB01-505)

Flame retardant material declaration

Test items & approval conditions:

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		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 2 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g)		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 -