



CERTIFICATE NUMBER

DATE

05-YO450410/1-PDA

05 April 2010

ABS TECHNICAL OFFICE

Yokohama Engineering Services

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**Kawai Electronic Innovation System (KEI) Co., Ltd. - Osaka**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Computer System

MODEL: KEI-3240

ABS RULE: 2010 Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 4-9-6 and 4-9-7

OTHER STANDARD:

AMERICAN BUREAU OF SHIPPING

Yukiteru Naguchi

Engineering Type Approval Co-ordinator

**Kawai Electronic Innovation System (KEI) Co., Ltd.**

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**Product:** Computer System

**Model:** KEI-3240

**Intended Service:**

Monitoring, alarm, data logging, and valve control system for Vessels with ACC, ACCU or ABCU notation.

**Description:**

KEI-3240 computer system consists of AGU IV Host Computer/Graphic Computer Type KEI-3240A/KEI-3240D, ILS System I/F Module, ARCNET I/F Module, ILS System and its Local Unit, Keyboard, and LCD Panel Display. See attachment for component details.

**Ratings:**

See attachment for component details.

**Service Restrictions:**

- (1) Unit Certification is not required for this product. However, unit certification is required by the user to customize this equipment where this equipment is used for category II services in 4-9-6/Table 1 and 4-9-6/table 3 as applicable.
- (2) Please note that the following items for the requirement applicable to computer based system:
  - (a) The assigned system Category II.
  - (b) The required evidence to be kept by the manufacturer in accordance with 4-9-6/Table 3.

**Comments:**

ABS Surveyor's witnessed Test Report No. KO536563 dated 23 July 2004.

**Notes / Drawings / Documentation:**

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Term of Validity:**

This product/model is covered under Product Design Assessment (PDA) Certificate # 05-YO450410/1-PDA, dated 05/Apr/2005. This PDA Certificate expires 05/Apr/2010. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is valid for all vessels contracted on or before the date of the Rules used in this evaluation.

**STANDARDS**

**ABS Rules:**

2010 Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 4-9-6 and 4-9-7

**National:**

NA

**International:**

NA

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

NA

**Design Assessment (DA) Certificate Attachment for Component Details**

**DA Certificate No:** 05-YO450410/1-PDA  
**Issue Date:** 05 April 2010  
**Expire Date:** 05 April 2015  
**Company:** Kawai Electronic Innovation System Co., Ltd.  
**Factory or Works:**  
**Product/Equipment:** Computer System  
**Model:** KEI-3240

**KEI's List of Equipment / Unit (Module) Type**

Name	Type	Manufacturer	Outline
<b>AGU IV HOST &amp; GRAPHIC COMPUTER</b>	KEI-3240A KEI-3240D	KEI system Co., Ltd	(AC100V) (DC+24V)
<b>KEI-ILS ILS SYSTEM I/F MODULE</b>	PC4-ILS	KEI system Co., Ltd	ILS I/F module
<b>ARCNET I/F MODULE</b>	PC4-ARC	KEI system Co., Ltd	ARCNET I/F module
<b>KEI-ILS LOCAL</b>	Power supply for LOCAL SVA24SA	ETA ELCTORIC INDUSTRY Co., Ltd.	OUT: +24V IN: AC100v
	SVA24SC24		OUT: +24V IN: DC24V
	Noise filter for power line MBW-12R5-22	DENSEI LAMBDA Co., Ltd.	AC100V/DC24V
<b>ILS LOCAL UNIT (MODULE)</b>	ILS-DI ILS-DV ILS-DO ILS-AII ILS-AVI ILS-PT ILS-VR4 ILS-BIO ILS-BVO ILS-REP	KEI system Co., Ltd	Contact input unit AC voltage input unit Contact output unit Current input unit Voltage input unit 3 wire Pt input unit Potentiometer input unit Current output unit Voltage output unit ILS line repeater unit
<b>KEI-KEYBOARD</b>	ENTRY-KEY32	KEI system Co., Ltd	32 KEY
<b>KEI LCD PANEL DISPLAY</b>	KEI-LCD10A KEI-LCD10D KEI-LCD12A KEI-LCD12D KEI-LCD15A KEI-LCD15D	KEI system Co., Ltd	10" LCD display (AC100V) 10" LCD display (DC+24V) 12" LCD display (AC100V) 12" LCD display (DC+24V) 15" LCD display (AC100V) 15" LCD display (DC+24V)