



# NIPPON KAIJI KYOKAI

## *Certificate*

Certificate No. TA05566M

### **OF TYPE APPROVAL**

MANUFACTURER : KAWAI ELECTRONIC INNOVATION System Co., LTD, Japan

ARTICLE : KEI computer system

TYPE NO. : KEI-1000, KEI-CRT, KEI-KEY BOARD

TYPE TEST NO. : 94 A 103

PARTICULARS : Power Supply AC100V, DC24V

EQUIPMENT : Shown on the attached sheet.

DOCUMENTATION: KEI-1000/01-101, KEI-1000/01-701, KEI-CRT14ML-101,  
KEY-032/02-101, BTB-251/01A, BTB-KLS/01A,  
KLS-DI1/01~02, KLS-DO1/01~02, KLS-DO2/01~02,  
KLS-DI01/01~02, KLS-AII1/11, KLS-AII2/11, KLS-AV1/01,  
KLS-PTX/01, KLS-BV01/01, KLS-BI01/01

TEST ITEMS : Shown on the attached sheet.

THIS IS TO CERTIFY that the above mentioned type of article has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements for the environmental tests specified in the Society's Rules.

This certificate will remain in force until the 15<sup>th</sup> day of December 2011.

Issued at Tokyo on the 17<sup>th</sup> day of November 2005.

S.Ogawa  
General Manager,  
Machinery Department

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## Equipment:

### Rack for KEI-1000;

7 slots module rack	: KPR-007
14 slots module rack	: KPR-014
21 slots module rack	: KPR-021

### Module for KEI-1000;

KEI-1000 CPU module	: BTB-834/12, BTB-251
High speed numeric processor module	: BTB-NPX
CA input module	: BTB-ACA, BTB-ACR
Current input module	: BTB-AII
2 wire Pt input module	: BTB-APT
3 wire Pt input module	: BTB-PT
Thermister input module	: BTB-ATH
Voltage input module	: BTB-AVI
Current output module	: BTB-BIO
Voltage output module	: BTB-BVO
Contact input module	: BTB-DI
Contact output module	: BTB-DO
Freq. input module	: BTB-FI
Special input module	: BTB-MI
Power module	: BTB-PW
Serial I/F module	: BTB-SIO
Counter input module	: BTB-UDC
Ref. container input module or clock input module	: BTB-DVI
TTL, RS232C conversion module	: TRX-232
KLS center module	: BTB-KLS
Contact input terminal	: KLS-DI
Contact input/output terminal	: KLS-DIO
Contact output terminal	: KLS-DO
Current input terminal	: KLS-AII
Voltage input terminal	: KLS-AVI
3 wire Pt input terminal	: KLS-PT
Current output terminal	: KLS-BIO
Voltage output terminal	: KLS-BVO

### KEI-CRT;

15 inch color CRT	: KEI-CRT15M
17 inch color CRT	: KEI-CRT17M
20 inch color CRT	: KEI-CRT20M
21 inch color CRT	: KEI-CRT21M

### KEI-KEY BOARD;

32 key	: ENTRY-KEY 32
30 key	: ENTRY 1

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Test Items: Applied test items are marked with X.

ENVIRONMENTAL TESTS	Mark
External examination	X
Operation test and performance test	X
Electric power supply failure test	X
Electric power supply fluctuation test	X
Power supply fluctuation test	--
Insulation resistance test	X
High voltage test	X
Pressure test	--
Dry heat test	X
Damp heat test	X
Vibration test	X
Inclination test	X
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	X
Conducted emission test	X

Note: KEI-CRT to be installed in a zone other than the bridge and deck zone.