



# NIPPON KAIJI KYOKAI

## *Certificate* **OF** **TYPE APPROVAL**

**Manufacturer:** KAWAI ELECTRONIC INNOVATION System Co., LTD  
**Place of manufacturing:** 1-1-5 Ikuno-nishi, Ikuno-ku, Osaka, Japan  
**Product description:** LCD Panel Display Unit  
**Model:** KEI-LCD15  
**Approval No.:** 01A009  
**Specification & documents:** As shown on the attached sheet (-1/2)  
**Testing items:** As shown on the attached sheet (-2/2)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved for extension with **Approval No. 01A009** by the NIPPON KAIJI KYOKAI in accordance with the requirements specified in Part 7, Chapter 1 of Guidance for the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate will remain in force until the 10th May 2013.

Issued at Tokyo on the 27th June 2007.



S. Ogawa  
General Manager,  
Machinery Department

# NIPPON KAJI KYOKAI

Attached sheet - 1 / 2 to Certificate No. TA07279M

## Specification & documents:

1. Ratings: AC100V, DC 24V
2. Component and reference drawing:

Component	Document / Drawing
LCD PANEL DISPLAY UNIT	NK-TYPLCD15-502

3. Type Approval Test Report:

NK-TYPLCD15-501 (Test Procedures: 07 November 2000)

NK-TYPLCD15-510 (Test Report: 03 April 2001)

LRS-TPLCD15-515 (Test Report: 08 May 2007)

NK-TYPLCD15-521 (Test Procedures: 08 May 2007)

NK-TYPLCD15-523 (Test Report: 12 June 2007)

--- To be continued ---

# NIPPON KAJI KYOKAI

Attached sheet - 2 / 2 to Certificate No. TA07279M

Testing 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)		X
Dry heat test (Temperature 55°C × 16 hours)		X
Damp heat test (Temperature 55°C, Humidity 95%, 12 hours, 2 cycles)		X
Vibration test		X
Inclination test		X
Cold test (Temperature 5°C × 2.0 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

---- The end ----