



Certificate No. TA10335M

NIPPON KAIJI KYOKAI

Certificate

OF APPROVAL

FOR AUTOMATIC DEVICES AND EQUIPMENT

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-LCD10, 12

Approval No.: 98A109

Specification & documents: As shown on the attached sheet (-1/2)

Test items & approval conditions: As shown on the attached sheet (-2/2)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved in accordance with the requirements specified in Chapter1, Part 7 of Guidance for the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate is valid until 18 June 2015.

Issued at Tokyo on 19 June 2010.

T. Narisawa
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 Certificate No. TA10335M

Specification & documents :

1. Power Supply:

AC 100 V, DC 24 V

2. Documentation and Test Report:

NK-TYPLCD-502

NK-TYPLCD1012-505

-- To be continued --

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Attached sheet - 1/2 to Certificate No. TA10335M

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	X
Dry heat test (Temperature 55°C × 16 hours)	X
Damp heat test (Temperature 55°C, Humidity 95%, 16 hours, 2 cycles)	X
Vibration test (Acceleration ±0.7G × 1.5 hours)	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 --