



CERTIFICATE NUMBER 19-YO1812778-PDA

EFFECTIVE DATE 31-JAN-2019

EXPIRATION DATE 30-JAN-2024

ABS TECHNICAL OFFICE Yokohama Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

KEI SYSTEM CO., LTD.

located at

OSAKA CITY

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.

Product Monitor, LCD Display Panel

Model KEI-W21LCD, KEI-W24LCD, KEI-W27LCD

This Product Design Assessment (PDA) Certificate 19-YO1812778-PDA, dated 31/Jan/2019 remains valid until 30/Jan/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

American Bureau of Shipping

Motohiro Tamura
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

KEI SYSTEM CO., LTD.

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Web: www.kei-system.co.jp

Tier: 2 - PDA Issued

Product: Monitor, LCD Display Panel

Model: KEI-W21LCD, KEI-W24LCD, KEI-W27LCD

Intended Service:

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

Description:

Type KEI-W21LCD: 21 inch LCD Monitor (AC100V/220V)

Desk mount type

Type KEI-W24LCD: 24 inch LCD Monitor (AC100V/220V)

Desk mount type

Type KEI-W27LCD: 27 inch LCD Monitor (AC100V/220V)

Desk mount type

Rating:

Rated Voltage: AC100V/220V (50/60 Hz)

Operating ambient temperature: 5-55°C

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

(1) Specifications KEI-LCD Monitor for computer system (ABS Type Approval System), Dwg. No. ABS-KEI-WLCD-502A, Date: 19 September 2018,

(2) Design and performance standards, Code and rules, Dwg. No. ABS-KEI-WLCD-503, Date: 9 July 2018,

(3) KEI-LCD Monitor Products List, Dwg. No. ABS-KEI-WLCD-001, Receive Date: 18 September 2018,

(4) Test Procedure KEI-LCD Monitor for computer system (ABS Type Approval System), Dwg. No. ABS-KEI-WLCD-501, Date: 19 September 2018,

(5) Test report KEI-LCD Monitor for computer system (ABS Type Approval System), Dwg. No. ABS-KEI-WLCD-505, Date: 19 September 2018 issued by KEI SYSTEM Co., Ltd.,

(6) Test report KEI-LCD Monitor for computer system (ABS Type Approval System), Dwg. No. ABS-KEI-WLCD-506, Date: 10 December 2018 issued by KEI SYSTEM Co., Ltd.

Terms of Validity:

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STANDARDS

ABS Rules:

2019 Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4 and 4-9-8/13

2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4 and 4-9-9/13

2019 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3 and 4-3-4/5

2019 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3 and 4-3-4/5

2019 Steel Vessels Under 90 Meters in Length 1-1-4/7.7, 1-1-A3, 1-1-A4 and 4-7-4/3.9

2019 Offshore Support Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4 and 4-9-8/13

2019 High-Speed Craft 1-1-4/11.9, 1-1-A2, 1-1-A3 and 4-7-9/15

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA