



CERTIFICATE NUMBER
15-YO1386456-PDA

DATE
21 Dec 2015

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

DIGITAL ELECTRONICS CORPORATION

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, Graphic Panels**

Model: **Pro-face SP5000 Series and FP5000 Series**

This Product Design Assessment (PDA) Certificate 15-YO1386456-PDA, dated 21/Dec/2015 remains valid until 20/Dec/2020 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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

DIGITAL ELECTRONICS CORPORATION

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Web: www.pro-face.co.jp

Tier: 2 - PDA Issued

Product: Monitor, Graphic Panels
Model: Pro-face SP5000 Series and FP5000 Series
Intended Service:
Graphic operator for marine equipment.

Description:

PFXSP models (Zenzai Display and Box): The 7 types of displays and 2 types of boxes may be used in any of the 14 combinations for use.

PFXSP models (iDisplay): Display unit and rear unit is fixed by screws at the factory as default specification.

Rating:

Specification and Interfaces listed in the attached sheet.

Service Restriction:

1. Unit Certification is not required for DIGITAL ELECTRONICS CORPORATION as the original supplier. However, unit certification in accordance with 4-9-3/Table 2 & 3 of the Rules is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1 in presence of the Surveyor after assemblage. The tests are to be carried out preferably at the assembled plant before installation onboard. However, if it is impracticable, the tests may be carried out after installation onboard.
2. Failure analysis for safety related functions only and Analysis regarding existence and fulfillment of programming procedures for safety related functions in association with 4-9-3/Table 2 & 3 is to be additionally submitted when this component is used for systems assigned as Category III.
3. Wireless data communication will be specially considered for non-essential and recreational purposes, entirely within the living accommodations.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The computer-based system for the subject equipment is assigned as Category II.
3. Evidence is required to be kept by the manufacturer in accordance with 4-9-3/Table 2 & 3 of the Rules regarding the computer-based system.

Notes/Drawing/Documentation:

Drawing No. 15RT-4VE00101, Test report HMI system 1, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00102, Test report HMI system 2, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00103, Test report HMI system 3, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00104, Test report HMI system 4, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00105, Test report HMI system 5, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00106, Test report HMI system 6, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00107, Test report HMI system 7, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00108, Test report HMI system 8, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00109, Test report HMI system 9, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00110, Test report HMI system 10, Revision: 1, Pages: 51
Drawing No. 15RT-4VE00111, Test report HMI system 11, Revision: 1, Pages: 50
Drawing No. 15RT-4VE00112, Test report HMI system 12, Revision: 1, Pages: 50
Drawing No. 15RT-4SA00038, Schematic Circuit Diagram, Revision: 1, Pages: 149
Drawing No. 15RT-4SA00039, OVERALL DIMENSION, Revision: 1, Pages: 21
Surveyor Report: KO2789393 dated 06/FEB/2015

Terms of Validity:

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STANDARDS

ABS Rules:

2015 Steel Vessel Rules 1-1-4/7.7 1-1-A3, 1-1-4/A4, 4-1-1/Table 3, 4-8-3/15, 4-9-1/7.3.9, 4-9-3 (Category II), 4-9-8/7 and 4-9-8/13

2015 Steel Vessel Rules (Under 90 Meters) 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-1-1/Table 3C, 4-7-1/7.19, 4-7-2/9, 4-7-2/15.3 and 4-7-2/17

2015 Offshore Support Vessel Rules (OSV Rules) 1-1-4/7.7 1-1-A3, 1-1-4/A4, 4-1-1/Table 3, 4-8-3/15, 4-9-1/7.3.9, 4-9-3 (Category II), 4-9-8/7 and 4-9-8/13

2015 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-7-1/7.3.12, 4-7-8 (Category II), 4-7-9/7 and 4-7-9/15

National:

NA

International:

IACS UR E10 (Rev.6 Oct 2014)

IACS UR E22 (Rev.1 Sept 2010)

Government:

NA

EUMED:

NA

OTHERS:

NA