



CERTIFICATE NUMBER
16-HG1527912-PDA

DATE
10 Jun 2016

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

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

SAIA-BURGESS CONTROLS AG

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: **Graphic Display Terminal**

Model: **PCD7.D4XX**

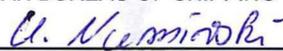
This Product Design Assessment (PDA) Certificate 16-HG1527912-PDA, dated 10/Jun/2016 remains valid until 09/Jun/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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



Ulf Numirski
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).

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Tier: 2 - PDA Issued

Product: Graphic Display Terminal

Model: PCD7.D4XX

Intended Service:

MicroBrowser Terminal for Automation Systems fitted on board ACC and ACCU Vessels, Offshore and Industrial Installations

Description:

The PCD7.D4XX are micro processor based operator terminals with web browser features and resistive touch screens. Interface with the PCD family of Process Control Device or all kind of web based peripheral equipment. For a complete description please see attachment.

Rating:

Service: Nominal voltage: 24 V DC

Operating Temperature: 0 to 55° C

Protection Rating: (Front): IP65

Mounting: Flush

Service Restriction:

Unit Certification is required for this product by the user to customize this equipment where it is used for Category II or III services as described in Section 4-9-3/Table 1 of the Steel Vessel Rules.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Each particular application/ configuration and the user operating software is to be specifically approved in conjunction with the relevant system in which the PC units are being used. System Category III. Manufacturer is to keep evidence of quality plan for software, inspection of hardware components from sub-suppliers and quality control in production. Performance integration, fault simulation, final system factory acceptance tests, on-board system and integration tests to be witnessed by the Surveyor.

Notes/Drawing/Documentation:

Drawing No. 16010-LOM-ABS_based_on_09-LD428692-1-PDA_sent_20160310, List of Modules PCD7.D4xx, Revision: 00, Pages: 1

Drawing No. 26-215_ENG13_SBC-SystemCatalogue, System Catalogue SBC PCD, Revision: 13, Pages: 301

Drawing No. MES_Saia_13-MO-0070_PCD7.D450WTPF_2013-09-23, Test Report EMC .D450, Revision: 00, Pages: 16

Drawing No. MES_Saia_13-MO-0070_PCD7.D450WTPZ51_2013-09-23, Test Report EMC .D450...Z, Revision: 00, Pages: 11

Drawing No. MES_Saia_13-MO-0070_PCD7.D470WTPF_2013-09-23 rev02, Test Report .D470, Revision: 00, Pages: 16

Drawing No. PCD7_D443R_124466179_A, PCD7.D443R Board / Schematics, Revision: A, Pages: 7

Drawing No. PCD7_D443R_32314404_B, PCD7.D443R Main List of Parts, Revision: B, Pages: 3

Drawing No. PCD7_D443R_463672901_A, PCD7.D443R Board / BOM, Revision: A, Pages: 10

Drawing No. PCD7_D443_124466179_A, PCD7.D443 Board / Schematics, Revision: A, Pages: 7

Drawing No. PCD7_D443_32304325_B, PCD7.D443 Main List of Parts, Revision: B, Pages: 3

Drawing No. PCD7_D443_463672900_A, PCD7.D443 Board / BOM, Revision: A, Pages: 10

Drawing No. PCD7_D450WTPF_463672580b_BOM, PCD7.D450 Board / BOM, Revision: b, Pages: 7

Drawing No. PCD7_D450WTPZ51_463672160d_BOM, PCD7.D450...Z Board / BOM, Revision: d, Pages: 6

Drawing No. PCD7_D470WTPx_124466160_Main_List_of_Parts, List of parts PCD7.D470, Revision: 00, Pages: 1

Drawing No. PCD7_D4_13004-MP_DNV_TATR-PCD7D450WTPF, Test Report for Type Approval (TATR), Revision: 01, Pages: 41

Drawing No. PCD7_D4_13005-MP_DNV_TATR-PCD7D470WTPF, Test Report for Type Approval (TATR), Revision: 01, Pages: 41

Drawing No. PCD7_D4_26-575_EN01_DS_Web-Panel-MB_PCD7D450WTPF_CS6-2012-12-12_dpi300, Data

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Tier: 2 - PDA Issued

Sheet PCD7.D450, Revision: 01, Pages: 2
Drawing No. PCD7_D4_26-597_EN01_DS_Web-Panel-MB_PCD7D470WTPF_CS6-2013-09-05_dpi150, Data Sheet PCD7.D470, Revision: 01, Pages: 2
Drawing No. PCD7_D4_Differences_to_standard_products, Explaining document, Revision: 00, Pages: 2
Drawing No. PCD7_D4_MES_Saia_13-MO-0070_PCD7.D443WTPR_2014-11-06, Test Report EMC .D443, Revision: 0, Pages: 26
Drawing No. PCD7_D4_Ruag Report No 7076, Test Report Vibration PCD7.D450/470, Revision: 01, Pages: 30
Drawing No. PCD7_D4_ST3-R_124466132c_Schematics, PCD7.D4xx / Schematics, Revision: c, Pages: 8
Drawing No. PCD7_D4_datasheet 10.4inch Z51-Z52, Data Sheet PCD7.D470...Z, Revision: 00, Pages: 2

Terms of Validity:

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STANDARDS

ABS Rules:

2016 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-9-3/1/11 and 4-9-8/13
2016 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-Appendix 2 and 3, 4-3-4/5

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA

Product Design Assessment (PDA) Certificate for Component Details

PDA Certificate No: 16-HG1527912-PDA
 Company: Saia-Burgess Controls AG
 Product/Equipment: Programmable Logic Controller
 Model: PCD7

The certificate as mentioned above makes reference to the following list of Certified Modules.
 Each designation may be followed by Zxx, where xx are digits for customer specific product design.

Product description

PCD7.D4xx Panels	
PCD7.D4xx 1/2/3/4/5	<p>Generic pattern with</p> <p>xx Size of the screen (12 = 12 inches, 10 = 10.4 inches, 70 = 7.0 inches, 57 = 5.7 inches, 50 = 5.0 inches, 43 = 4.3 inches)</p> <p>1 Technology of displays B = black/White or level grey S = color STN QVGA T = color TFT QVGA V = color TFT VGA D =color TFT SVGA X =color TFT XGA W = color TFTWVGA</p> <p>2 Entry Technology (Touch Screen or Membrane Keys K = Keys only L = Keys + Numeric Keys T = Touch only M = Touch + Keys N = Touch + Keys + Numeric Keys</p> <p>3 Microprocessor C = Coldfire 5272 P = Coldfire 5373 5 = Coldfire 5373 (model has optional firmware)</p> <p>4 Mounting & Additional Function E0 = energy monitoring application included F or blank = Flush mounting G = Flush mounting 268 x 156 mm (specific construction)</p> <p>5 Variant Blank = None Zxx = Specific variant (xx from 01...49 or 51..56)</p>