



Certificate number: 27681/A0 BV

File number: AP4280

Product code: 4483H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Saia-Burgess Controls AG

Murten - SWITZERLAND

for the type of product

DISPLAY MONITORS / VIDEO SCREENS / TERMINALS

Control (Terminals) and Panels
PCD7.D4xx

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 10 Apr 2018

For BUREAU VERITAS,

At BV HAMBURG, on 10 Apr 2013,

Dirk Hoepfner

A handwritten signature in black ink, appearing to read 'Hoepfner'.



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **PCD7.D457**, **PCD7.D410** and **PCD7.D412 series** are programmable web panels with micro-browser with touch screen and/or key technology.

1.1 - Main characteristics:

Power Supply: 24V DC
 Connections: 1x ETHERNET, 2x ETHERNET (for PCD7.412 only)
 1x USB client
 1x Serial (RS232, RS485) (not for PCD7.412)
 1x PS/2 (not for PCD7.BTCF, STCF, VTCF, VTCFH and PCD7.412)
 Protection: IP 65 (Front)/ IP 20 (Rear)
 Operating System: Saia NT
 Software version: PG5-SP2.0.xxx
 Firmware version: 1.10.xx to 1.20.xx

1.2 - Variants:

Type: PCD7.D4aa - b - c - d - e

aa = Display size:

57, 10, 12

b = Display type:

B, D, S, T, V, X

c = Input technology:

K, L, M, N, T

d = Processor:

C, P, 5

e = Mounting (Option):

F, G

2. DOCUMENTS AND DRAWINGS:

- P+P26/215EN10 dated 02.2013; P+P26/498 EN01 dated 08. 2009; P+P26/562 EN Rev. 01 dated 05.2012
 - 124466075 Rev. c dated 26.06.2012; 124466135 Rev. a dated 19.12.2012;
 - 463671120 Rev. b dated 18.05.2009; 463672080 Rev. a dated 01.10.2012
 - 26-858 E1 Rev. 3c dated 12.10.09

3. TEST REPORTS:

Saia-burgess Controls AG:

- 09034-MP dated 2010-01-12; 11004-MP dated 2011-11-01; 12005-MP dated 2012-10-30

Montena emc sa:

- 15'656 dated November 17, 2009; 16'580 dated October 13, 2011; 16'781 dated April 18, 2012

RUAG Land systems AG:

- 6256-2 Version 1 dated March 27, 2009; 6364-2 Version 1 dated October 19, 2009;
 - 6364-3 Version 1 dated October 19, 2009; 6625-1 dated 05 May 2011; 6625-2 dated 06 May 2011

4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS**, **AUT-CCS**, **AUT-PORT** and **AUT-IMS**.

4.3 - Bureau Veritas Environmental Category, **EC Code: 31**

4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.

4.5 - Documents relating to each application are to be submitted to the Society's examination prior fitting on board.

4.6 - Depending on the Application, Factory Acceptance and On-board Tests are to be performed in accordance with requirements for Category II or III Equipment.

4.7 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.

4.8 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **Saia-Burgess Controls AG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **Saia-Burgess Controls AG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

Saia-Burgess Controls AG
Bahnhofstrasse 18
3280 Murten
SWITZERLAND

5.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Equipment type or model identification.
- Date of manufacture and/or serial number.
- The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.
- When the marking and the title and version of the software are displayed only on the display, such information shall also be included in the equipment manual.

7. OTHERS:

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Saia-Burgess Controls AG - SWITZERLAND**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

*** END OF CERTIFICATE ***