



Marine &amp; Offshore

Certificate number: 31811/B0 BV

File number: AP4352

Product code: 4446I

*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*

**NORIS Automation GmbH**

Nürnberg - GERMANY

*for the type of product*

**EXTENSION ALARM SYSTEMS**

Displays and an alarm annunciator

N3000 -DMP30/31, -DSP10/20, -SSP01

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 31

*This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 06 Oct 2022**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 06 Oct 2017,

Dirk 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 Marine & Offshore. 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 & Offshore available on the internet site [www.veristar.com](http://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 Marine & Offshore 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The **N3000-DMP30/ -DMP31**, **N3000-DSP10/ -DSP20** and **N3000-SSP01** devices are displays and an alarm annunciator for an extension alarm system.

#### **1.1 - System components:**

	<b>N3000-DMP30/31</b>	<b>N3000-DSP10/20</b>	<b>N3000-SSP01</b>
Power supply:	24V DC	24V DC	24V DC
LC Display:	10 rows	4 rows	n/a
Display lighting:	dimmable	dimmable	dimmable
Inputs:	4x digital inputs	-	4x digital inputs
Outputs:	4x relay outputs	2x relay outputs	-
Connections:	1x RS-232/422/485 1x RS422/485 2x CAN-bus 1x Ethernet RJ45	1x RS485	1x RS485
Degree of protection:	IP42 (Front), IP10 (Rear)	IP42 (Front), IP10 (Rear)	IP65 (Front), IP10 (Rear)
Software version:	Linux 2.6.22.6-Rev508 N3_DMP-1.23xx	N3_DSP10-1.00	N3_SSP01-1.10
Remark:	N3000-DMP31 with Dead-Man function	N3000-DSP20 with independent fire alarm unit	Indication of 9x2 alarms messages and 1x status

### 2. DOCUMENTS AND DRAWINGS:

- NMS-KD-0023-1-en V01.03 dated 21.02.2012; NMS-KD-0023-2-en V01.05 dated 06.06.2012;  
 - NMS-KD-0026-1-en V01.02 dated 21.02.2012; NMS-KD-0026-2-en V01.04 dated 02.07.2012;  
 - NMS-KD-0035-1-en V01.02 dated 22.03.2012; NMS-KD-0035-2-en V01.02 dated 22.03.2012;  
 - I626E V01.04 dated 2012-10-24  
 - For B0 version: I626E V01.10 dated 2017-07-24

**DSP10/DSP20:** - 58.034.224.1 dated 15.12.2009; 58.034.224.2 dated 15.12.2009; DP3-1G Rev. a dated 01.08.2011;  
 - FF17-1G-III Rev. a dated 28.01.2010; GH245-1G II Rev. a dated 27.09.2010; PL600-1G III Rev. c dated 17.11.2010;  
 - HG-N3000-DSP10/20 II dated 05.03.2010; HG-N3000-DSP10/20 II Rev. a dated 16.12.2011; SA712-1 dated 27.10.09;  
 - SA712-1G dated 27.10.09; SA726-1 Rev. b dated 25.07.11; SA726-1G Rev. b dated 25.07.11;  
 - SL1225-1 Rev. b dated 22.07.2011; SL1225-2 Rev. b dated 22.07.2011; SL1227-1 Rev. b dated 25.07.2010;  
 - SL1300-1 Rev. c dated 17.11.2010; SL1300-2 Rev. c dated 17.11.2010; SL1301-1 Rev. b dated 24.09.2010;  
 - SL1301-2 Rev. b dated 24.09.2010

**DMP30/DMP31:** - NOR-MMI2-DMP-P.BP.200 Rev. 200 dated 12.4.10; NOR-MMI2-DMP-P.SP.201 Rev. 201 dated 10.10.11;  
 - 58.034.220.3 Rev. b dated 06.06.11; DP4-1G III Rev. a dated 14.09.2011; FF15-1G III Rev. e dated 24.11.2011;  
 - GH231-3 III Rev. a dated 12.05.2011; HG-N3000-DMP30 Rev. b dated 16.12.2011; SA711-2 dated 18.01.08;  
 - SA711-2G Rev. a dated 14.02.11; SL1226-2 Rev. a dated 14.02.2011; SL1240-3 Rev. b dated 12.05.2011

**SSP01:** - 58.034.223.3 dated 28.06.2011; FF16-3 IV dated 02.02.2011; GH242-1 II dated 28.03.2011;  
 - HG-N3000-SSP01-3 Rev. e dated 16.12.2011; PL616-1 IV dated 22.11.2010; SA708-1 Rev. b dated 21.07.11;  
 - SA708-1G Rev. b dated 21.07.11; SL1228-1 Rev. b dated 21.07.2011; SL1239-3 Rev. d dated 17.10.2011;

### 3. TEST REPORTS:

#### **Noris Marine Systems GmbH & Co. KG:**

- FMEA:N3000-DMP, N3000-DSP10/20 dated 12.04.11  
 - PB00 101:2011-02 V.1.2 dated 2012-02-10

#### **TÜV Rheinland LGA Products GmbH:**

- 21171719\_001 dated 29.Juli 2011  
 - 21172964 Part A dated Oct.26, 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 - Factory Acceptance and On-board Tests are to be performed in accordance with requirements for Category II 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 is covered by this certificate.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above mentioned products are to be supplied by **NORIS Automation GmbH - GERMANY** in compliance with the type and the requirements described in this certificate.

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

5.3 - BV product certificate is required.

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

**6. MARKING OF PRODUCT:**

- Maker's name or trademark.

- Equipment type or model identification.

- Date of manufacture and/or serial number.

- \ or @ conformity marking, as relevant.

- Alternatively, the marking may be presented on a display at equipment start-up.

- 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:**

7.1 - It is the responsibility of **NORIS Automation GmbH** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 31811/A0 BV issued on 29 Nov 2012 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*