



Marine & Offshore

Certificate number: 23741/C0 BV

File number: AP 4203

Product code: 4206I

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

Zenitel Norway A/S

Horten - NORWAY

for the type of product

PUBLIC ADDRESS AND GENERAL ALARM SYSTEMS

Public Address and General Alarm System

SPA-V2 System

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships

SOLAS 74 as amended Reg. III/6, LSA Code, IMO MSC/Circ. 808, IMO Res. A.1021(26)

EC code: 21

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: 08 Nov 2028

For Bureau Veritas Marine & Offshore,

At BV OSLO, on 08 Nov 2023,

Rune MARSTEIN

This certificate was created electronically and is valid without signature



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. 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:

SPA-V2 System is a Public Address and General Alarm System comprising the following modules:

1.1 - Hardware:

Model / Series	Description
SPA PA 19" RACK	Racks Series with heights from 12U to 24U
SPA-TERM-V2	Terminal Board
SPA-MUL-xx	Multizone Boards Series
SPA-CHIME-V2	Generator Board
SPA-VDR-V2	VDR Board
SPA-EMS-V2	Emergency Speech Board
SPA-REL-xx / SPA-AL-REL-xx	Relays Board / Alarm Relays Board Series
SPA-EE3-V2 / SPA-DUALAL-V2	Tone Generator Boards
SPA-FAIL	Power Supply Failure Board
DR-4524	Power Supply Unit
SPA-M1-V2	PA Panel Single f/ all call, dimmer, flush, without mic
SPA-M1-D	PA Panel Dual f/ all call, dimmer, flush, without mic
SPA-M6-V2	PA Panel Single W/6 zones ,all call, dim, flush, without mic
SPA-M6-D	PA Panel Dual W/6 zones,all call, dim, flush, without mic
SPA-Wxx	Watertight Microphone Panels Series
SPA-ACx	Alarm Panels Series
MB-30G	Gooseneck Microphone for ETB, CTB, SPA-V2
ETC-1-TB	Hand Microphone w/ 5-pin DIN plug for ETB, CTB, SPA-Mx-V2/-D
P-66	Watertight Microphone
VPA-120, VPA-240 and VPA-400	Amplifiers

Power Supply: 230 VAC / 50 Hz + 24 VDC

1.2 - Software:

Board	Software Version
SPA EE3	V3.07
SPA-M6SD	V1.01
SPA-CHIME-V2	V1.00

Note: Functions of other Boards are DIP-Switches controlled.

2. DOCUMENTS AND DRAWINGS:

ZENITEL:

Manuals:

Public Address and General Alarm System, SPA-V2, System Manual Doc. No. A100K10369

Public Address and General Alarm System, SPA-V2, Installation & Configuration Manual Doc. No. A100K10370

Public Address and General Alarm System, SPA-V2, User Manual Doc. No. A100K10371.

Data Sheets:

3005010079 SPA-120-V2, 3005010084 SPA-240-V2, 3005010087 SPA-400-V2, 3005010095 SPA-AC-6, 3005010096

SPA-AC6-D, 3005010195 SPA-W1AR-D, 3005010196 SPA-W1AR-V2, 3005010197 SPA-W1-D, 3005010199

SPA-W1-V2, 3005010203 SPA-W6A4-D, 3005010202 SPA-W6A4-V2, 3005010235 VPA-120, 3005010237 VPA-240,

3005010239 VPA-400, 2340110019 SPA-M1-D, 2340110020 SPA-M6-V2, 2340110021 SPA-M6-D, 3005010150

SPA-M1-V2, 3005020033 MB-30G, 3005020029 ETC-1-TB, 3005020039 P-66.

3. TEST REPORTS:

DELTA:

Test for Marine Type Approval of SPA-V2 System, Test Report No. DANAK-1911533 dated 19 August 2011

Type Approval testing of VPA-120, VPA-240 & VPA-400 PA/GA system power amplifiers, Test Report No.

DANAK-198453 dated 28 July 2006.

ZENITEL:

Performance Test DNV PA/GA Type Approval of SPA-V2 system, Doc. Ver. 1.4 dated 2008-04-20 (witnessed on 2008.05.06).

Nemko:

EMC Test Report No. REP012967B, dated 31-08-2023.

4. APPLICATION / LIMITATION:

- 4.1 - BUREAU VERITAS Rules 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 - The equipment fulfils the EMC requirements for installation on the Bridge and deck Zone.
- 4.4 - BUREAU VERITAS Environmental Category, **EC Code: 21.**
- 4.5 - Only Hardware and Firmware / Software successfully tested together in compliance with the rules as referred to in cover page, according to the declaration of the manufacturer are covered by this certificate.
- 4.6 - Any modification of the hardware, firmware or software having an impact on the product performance or functionality has to be validated with type testing.
- 4.7 - In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application:
- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.
 - Inspection and testing before installation onboard is to be performed under the surveillance of the Society.
- 4.8 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 8.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **Zenitel Norway A/S** 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 - **Zenitel Norway A/S** has declared to Bureau Veritas the following production site:

Zenitel Norway A/S
P.Box 1068
3194 Horten
NORWAY

6. MARKING OF PRODUCT:

- 6.1 - According to IEC / EN 60945.
- 6.2 -  or  conformity marking, as relevant.

7. OTHERS:

- 7.1 - It is **Zenitel Norway A/S's** responsibility 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 No. 23741/B0 BV issued on 16 Jan 2018 by the Society.

*** END OF CERTIFICATE ***