



**TYPE APPROVAL CERTIFICATE**  
**No. ELE219123XG**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>PUBLIC ADDRESS AND GENERAL ALARM SYSTEM</b>
<i>Type</i>	<b>SPA-V2 PA and GA SYSTEM</b>
<i>Applicant</i>	<b>ZENITEL NORWAY AS SANDAKERVEIEN 24C N-0403 OSLO NORWAY</b>
<i>Manufacturer</i>	<b>ZENITEL NORWAY AS</b>
<i>Place of manufacture</i>	<b>SANDAKERVEIEN 24C N-0403 OSLO NORWAY</b>
<i>Reference standards</i>	<b>RINA Rules for Classification of ships, Part C Machinery systems and fire protection, Ch.3, Sect.6, Table 1; // Resolution A.1021 (26) - Code on Alert and Indicators; MSC. 48(66) LSA Code; MSC/Circ. 808; IACS E10: Corr.1 July 2003</b>

*Issued in* **HAMBURG** on **November 9, 2023**. *This Certificate is valid until* **November 8, 2028**

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**RINA Services S.p.A.**  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure

## TYPE APPROVAL CERTIFICATE

No. ELE219123XG

Enclosure - Page 1 of 3

SPA-V2 PA and GA SYSTEM

### Product Description:

The SPA-V2 system can be configured in different ways. The following variants are possible:

- SPA2-xx-P; only PA system (minimum one approved amplifier)
- SPA2xx-GD; Integrated PA/GA system for standard vessels (minimum two approved amplifiers)
- SPA2-xx-GP; Integrated PA/GA system for passenger vessels (minimum two approved amplifiers divided in two different racks)

### Power Supply:

- 230 V AC, 50-60 Hz, max. 2A per 100 Watt amplifier.
- 24 V DC Emergency power, max. 8A per 100 Watt amplifier

### RACKS

ID	Description
SPA-120-V2	12HU rack with 1x SPA-TERM-V2 & 1x VPA-120
SPA-240-V2	12HU rack with 1x SPA-TERM-V2 & 1x VPA-240
SPA-400-V2	12HU rack with 1x SPA-TERM-V2 & 1x VPA-400
SPA-BASIC-12-V2	12 HU rack for one amplifier with SPA-TERM-V2, SPA-EE3-V2, SPA-AL-REL-V2 SPA-CHIME-V2, SPA-UPS
SPA-BASIC-16-V2	16 HU rack for two amplifiers with SPA-TERM-V2, SPA-MUL-V2, SPA-EE3D-V2, SPA-AL-REL-V2 SPA-CHIME-V2, SPA-UPS

### AMPLIFIERS

ID	Description
VPA-120	Pastrong 120W @ 100V audio
VPA-240	Pastrong 240W @ 100V audio
VPA-400	Pastrong 400W @ 100V audio

### VOLUME CONTROL & PROGRAM SELECTOR

ID	Description
VCOR-15	Volume controller w/24VDC override, 15W
VCOR-15F	Volume controller w/24VDC override, fail-safe, 15W
VCOR-60	Volume controller w/24VDC override, 60W
VCOR-60F	Volume controller w/24VDC override, fail-safe, 60W
VM-15RD	Volume control 15W dual
VM-50RD	Volume control 50W dual
VM-15RDF	Volume control 15W fail-safe dual
VM-50RDF	Volume control 50W fail-safe dual
SPA-PROG4-RDF	Entertainment selector for 4 external 100V sources with 100V PA and override input fail-safe dual
SPA-PROG2	Control panel for SPA-ENTP2X2I dual
ENT-4F	Entertainment panel for 4 external 100V sources override and 100V PA audio
ENT-2D	Entertainment panel for 2 programs 100V with override and separate speaker for B loop



**TYPE APPROVAL CERTIFICATE**  
**No. ELE219123XG**  
**Enclosure – page 2 of 3**

**PANELS & ACCESSORIES**

<b>ID</b>	<b>Description</b>
SPA-M1-V2	All-call microphone panel with goose mic flush
SPA-M1-D	All-call microphone panel with goose mic flush dual
SPA-M6-V2	6 zone microphone panel with goose mic flush
SPA-M6S-D	6 zone microphone panel with goose mic flush dual
SPA-M6HM-V2	SPA-M6H-V2 with zone selection memory
SPA-M6SM-V2	SPA-M6S-V2 with zone selection memory
SPA-M6HDM-V2	SPA-M6H-D with zone selection memory
SPA-M6SDM-V2	SPA-M6S-D with zone selection memory
SPA-AC6	6 button alarm panel
SPA-AC6-D	6 button alarm panel dual
SPA-W1-V2	All-call microphone panel with hand mic IP-66
SPA-W1-D	All-call microphone panel with hand mic IP-66 dual
SPA-W1AR-V2	All-call microphone panel with hand mic & two alarm buttons IP-66
SPA-W1AR-D	All-call microphone panel with hand mic & two alarm buttons IP-66 dual
SPA-W2-D	2 zone microphone panel with hand mic IP-66
SPA-W6A4	6 zone microphone panel with hand mic & 4 alarm buttons IP-66
SPA-W6A4-D	6 zone microphone panel with hand mic & 4 alarm buttons IP-66 dual
MB-30G	Electret goose microphone
ETC-1	Dynamic hand microphone
P-66	Hand microphone IP-47
P-66/10	P-66 with 10 meter cable
SPA-REM7	Remote panel for SPA-DARP16
SPA-MON1	Monitor panel
ETC-1-TB	Dynamic hand microphone



**TYPE APPROVAL CERTIFICATE**

**No. ELE219123XG**

**Enclosure – page 3 of 3**

**SPEAKERS**

<b>ID</b>	<b>Description</b>
CL-200T	Ceiling10W IP-44
CAU-4T	Wall 4W IP-55
CW-4T	Wall 4W
CW-4T/VOF	Wall 4W w/ volume control override fused
CAR-4TF	Wall double face 4 fused
BF-560STT	Ceiling tropicalized 6W fused
VES-360TF	Ceiling 6W fused
213000101	Dual flush 6W
SAFE-10PTF	Wall 10W IP-44
VML-15T	Horn 15W IP-66
HP-15TF	Horn 15W fused IP-65
HP-30T	Horn 30W IP-67
DST-100 & DH-30/ DH-50	Driver and horn 100W IP-67
CAREEX-6T	Double face 6W Atex
DSP-15EExeNT	Horn 15W Atex IP-67
2340020001	Driver and horn 40W Atex
HP-20ST	Horn 20W Ex Z2 IP-67

**Reference documents:**

- Installation and configuration manual A100K10370
- User Manual A100K10371
- Equipment list GR 11-001, Rev. V0.1

**Test reports:**

- DELTA Test Report DANAK-1911533, dated of 19.08.2011
- Nemko Test Report REP012967, dated 2023-06-28

**Remarks:**

System block diagram and project documentation is to be approved for each installation.

*The certificate supersedes certificate ELE117918XG.*

**HAMBURG November 9, 2023**

*Giuseppe Russo*