

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **46 754 - 12 HH**
Company **Zenitel Marine AS**
Bromsveien 17
3183 Horten, NORWAY

Product Description **Public Address and General Alarm System**

Type **SPA-V2**

Environmental Category **C, EMC1**

Technical Data /
Range of Application **Type approval covers the following modules and sub-units:**
- Amplifier: VPA-120, VPA-240, VPA-400.
- Microphone panel: SPA-M1H-V2, SPA-M1S-V2; SPA-M1H-D, SPA-M1S-D;
SPA-M6H-V2, SPA-M6S-V2; SPA-M6H-D, SPA-M6S-D.
- Alarm panel: SPA-AC6, SPA-AC6-D.
- Combined alarm and microphone panel: SPA-W1-V2, SPA-W1-D,
SPA-W1AR-V2, SPA-W1AR-D, SPA-W6A4-V2, SPA-W6A4-D.
- Volume control: VM15-R, VM50-R, VM15RDF, VM50-RDF, VM15-RD,
VM50-RD.
- Function board: SPA-TERM-V2, SPA-MUL-V2, SPA-CHIME-V2, SPA-VDR-V2,
SPA-EMS-V2, SPA-AL-REL6-V2, SPA-REL-V2, SPA-EE3-V2,
SPA-DUALAL-V2, SPA-FAIL.
- Power supply unit: DR-4524.

Power supply: 230 VAC or 110 V AC with automatic switch to 24 V DC

Test Standard **Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003; IEC 60945:2002.**

Documents **Test report: DANAK-1911533, 2011-08-11; Zenitel DoC with Salt Mist test, 2012-06-06; NEMKO 139500; Performance Test GL, 2012-08-09.**
Documentation: System Manual A100K10369 v2.1; Installation & Configuration Manual A100K10370 v2.1; User Manual A100K10371 v2.1.

Remarks **None**

Valid until **2017-08-20**

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Type Approval Symbol



File No. **I.E.02**

Hamburg, 2012-08-21

Germanischer Lloyd


Dr. Joannis Papanuskas


Hartmut Kuhn

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".