


**POTVRDA O TIPNOM ODOBRENJU**  
**TYPE APPROVAL CERTIFICATE**

Br / No	03-001413/031104
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Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda, odobren za ugradnju na brodove i postrojenja pod nadzorom Hrvatskog registra brodova.

This is to certify that this product, on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products, is approved for use on board ships and installations under supervision of the Croatian Register of Shipping.

**TIP I OPIS PROIZVODA:**
**TYPE AND DESCRIPTION OF PRODUCT:**

**AUTOMATSKI TELEFON, BEZRUČNA DVOSMJERNA GOVORNA KOMUNIKACIJA, JAVNI RAZGLAS, GENERALNI ALARM**  
**AUTOMATIC TELEPHONE, HANDSFREE TWO-WAY VOICE COMMUNICATION, PUBLIC ADDRESS, GENERAL ALARM SYSTEM**

## VINGTOR ACM SYSTEM

**PROIZVOĐAČ:**
**MANUFACTURER:**
**ZENITEL NORWAY AS**

Bromsveien 17, P.O.Box 1068 Bekkajordet

**NO-3194 HORTEN**
*Norway*
**PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:**
**THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:**
**Hrvatski registar brodova: Pravila za klasifikaciju brodova, Dio 12. – Električna oprema**
**Croatian Register of Shipping: Rules for the classification of ships, Part 12. – Electrical Equipment**
**IEC 60945 (2002), IACS UR E10**
**DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEDINI.**
**FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.**
**ODOBRENJE VRIJEDI DO:**
**APPROVAL IS VALID UNTIL:**
**2018-06-09**
**Mjesto i datum**  
**Place and date**

Split, 2014-06-09

**M.P.**  
**(Seal)**
  
 for Marinko Popović, dipl.ing.

**Napomena: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.**

**Note: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.**

**PODROBNIJI OPIS PROIZVODA:***DETAIL PRODUCT DESCRIPTION:*

AlphaCom XE7 - ACM-M-A – V2, Ver. 11.1  
 AlphaCom XE7 - ACM-M-D – V2, Ver. 11.1  
 AlphaCom XE20 - ACM-48-V10, Ver. 11.1  
 AlphaCom XE26 - ACM-144-V10, Ver. 11.1  
 AlphaCom XE26 - AACM-144-V10, Ver. 11.1

**TEHNIČKA DOKUMENTACIJA / NACRTI:***TECHNICAL DOCUMENTATION / DRAWINGS:*

Flush mount intercom, PA Call Station/Talk Back Station 1008031000; Handset units for flush mount intercom 1008097100; Goosneck unit for flush mount intercom 1008097500; Direct access key panel for flush mount intercom 1008010100; Wall mount intercom – Talk Back Stations VMP-503, VMP-530; Handset units for wall mount intercom VMP-211, VMP-250; Headset units for wall mount intercom VMP-36-PEL, VMP-36-PELP; Throat microphone for headset MT9; Portable intercom units VMP-503PA, VMP-503PA/15; EX intercom 1007095000; Desktop intercom 1008001000, VMP-D619, VMP-619; Desktop analogue telephone 2212000100; VAF-1 Flush (console) mount analogue telephone, PA Call Station 2213000300; Wall mount analogue telephone HSB-03; Handset for wall mount analogue telephone HAS-3, HAS-3WT; Headset for wall mount analogue telephone P-MT7; Heavy duty analogue telephone 2213000100, 2213000200; Portable analogue intercom P-290; EX analogue telephone DA24, DA24ID, DA24H; Speakers (20 Ω) DSP-15EExeN, VML-1520; Speakers with transformer VML-15T, CL-200T; Signal unit/lamp EHS-24, EHS-220, EHS-110, BLK5-24, BLK5-230, BLK5-1150, PD2100AC; Signal unit/buzzer A-100, A-100AC, HB-105, HB-90; Signal unit/lamp and buzzer SON-16, AL-1000, AL-105N-WR-0; Watertight relay box CRB-7, IRR-3; Mounting cabinet PLM-32, PLM-43, PLM-54; Watertight connection box CD-4, CD-7-VMP, SB01; Indoor connection boxes PT-625A, 1009800100.

**PODRUČJE PRIMJENE / POSEBNI I GRANIČNI UVJETI:***APPLICATIONS / LIMITATIONS:*

Sustav se može koristiti za automatsko telefoniranje, javni razglas, povratni razglas i generalni alarm.  
 System may be used as automatic telephone exchange, Public Addressing, Talk Back and General Alarm system.

**DOKUMENTACIJA ZA TIPNO ODOBRENJE:***TYPE APPROVAL DOCUMENTATION:*

VINGTOR – ACM, Telephone System ACM-M-A-V2, Technical Manual, A100K10430 v.1.0;  
 VINGTOR – ACM Family, System Installation & Configuration, Technical Manual, A100K10647;  
 VINGTOR – ACM Emergency Functions, User Guide, A100K10792;  
 VINGTOR – Data Network Guidelines for Ships, Vingtor ACM Solution, Deployment Guide, A100K10649;  
 NEMKO – Test report 10691/04, 2008-06-23, IP Intercom Station – IEC 60945, General requirements;  
 NEMKO – Test report E06067.00, Telephone Exchange – AlphaCom E series;  
 NEMKO – Test report E07218.00, Maritime Exchange Cabinet – ACM-48;  
 NEMKO – Test report E07219.00, Maritime Exchange Cabinet – ACM-144;  
 DNV Technical Report 2010-3593, Rev.01, Vingtor ACM Intercom System-Environmental Testing;  
 DNV Technical Report 97-1341, Rev.01, Vingtor ACM-48 Intercom System-EMC and Environmental Testing;  
 ZENITEL – Performance Test DNV Approval of upgraded ACM System including IP capabilities, 2010-12-20.

**OZNAČAVANJE PROIZVODA:***MARKING OF PRODUCT:*

Ime proizvođača, tip proizvoda, serijski broj-identifikacija i sigurna udaljenost od magnetskog kompasa.  
 The Manufacturer and Type Designation of the product, serial number and safe distance to magnetic compass.

**UVJETI ZA CERTIFIKACIJU:***CONDITIONS OF CERTIFICATION:*

Na brodovima HRB klase potrebno je dostaviti tehničku dokumentaciju stvarne izvedbe za svaku pojedinačnu primjenu.

On the CRS classed vessels, documentation for the actual application is to be submitted for approval in each case.

Rašćlana

Zamjenjuje potvrdu

12.04.04

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