


**POTVRDA O TIPNOM ODOBRENJU**  
**TYPE APPROVAL CERTIFICATE**
**Br / No 03-001289/030960**

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:**
**SUSTAV ALARMA ZA NAVIGACIJSKU STRAŽU NA MOSTU**  
**BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM**
**NT990 BNWAS**
**PROIZVOĐAČ:**  
**MANUFACTURER:**

**NAVITRON SYSTEMS LTD**
**NAVITRON SYSTEMS LTD** (Registered in England 2607869)  
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**PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:**  
**THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:**
**Hrvatski registar brodova; Pravila, Dio 12.- Električna oprema, Dio 16.- Pomagala za navigaciju.**  
**Croatian Register of Shipping; Rules, Part 12.- Electrical equipment, Part 16.- Navigational aids.**
**IEC 62616(2010), IEC 60945(2002), IEC 61162-Series,**  
**IMO Res. MSC.128(75), IMO Res. A.694(17), IMO MSC/Circ.982.**
**DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEĐINI.**  
**FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.**
**ODOBRENJE VRIJEDI DO: 2016-02-13**  
**APPROVAL IS VALID UNTIL:**
**Mjesto i datum Split, 2012-02-13**  
**Place and date**
**M.P.**  
**(Seal)**

Goran Begović, 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:*

**Sustav nadgleda aktivnost posade na mostu te se po potrebi aktivira radi sprečavanja mogućih navigacijskih nezgoda.**  
*System monitors the bridge activity and detect operator disability which could lead to marine accidents.*

**Komponente: Control/ Display Unit (CU); Distribution Unit (DB1/DB2); Remote Reset Unit (RST); Selector Switch (OSS);**  
*Components: Digital Interface Unit (DIU); Alarm Distribution Unit (ADU); Sounder/Visual Units (AU/BVA); Master's Cabin/Officer's Cabin Alarm Unit (MCA/CA); PIR Sensor (PIR); Uninterruptible Power Supply (UPS).*

**PODRUČJE PRIMJENE / POSEBNI I GRANIČNI UVJETI:***APPLICATIONS / LIMITATIONS:***Samo za unutarnju ugradnju***Indoor installation only***DOKUMENTACIJA ZA TIPNO ODOBRENJE:***TYPE APPROVAL DOCUMENTATION:***Tehnička dokumentacija***Technical documentation*

- NT990BNWAS Installation &amp; Operation Manual –IEC 0611/8

**Ispitivanje na utjecaj okoliša***Environmental test*

- PARC No. 2434/3053 dated 08.04.2009./17.06.2010.

**Elektromagnetska kompatibilnost***Electromagnetic compatibility test*

- Hursley Services No. 09R117 CR/CC dated 23.03.2009./31.03.2009.

**Elektromagnetska kompatibilnost***Electromagnetic compatibility test*

- Hursley Services No. 10J234 CR dated 14.06.2010.

**Sigurna udaljenost od kompasa***Compass safe distance test*

- AQL-EMC Ltd No.4887/5105 dated 02.04.2009./08.06.2010.

**Provjera funkcionalnosti***Performance test*

- CRS, Havant dated 2012-02-02

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

**Sukladno zahtjevima IEC60945 – Označavanje i identifikacija (ime proizvođača i tip proizvoda, serijski broj, datum proizvodnje, sigurna udaljenost od magnetskog kompasa, napon napajanja).**

*In accordance with IEC60945 – Marking and identification ( The Manufacturer and Type Designation of the product, serial number, date of manufacture, safe distance to magnetic compass, supply voltage).*

**UVJETI ZA CERTIFIKACIJU:***CONDITIONS OF CERTIFICATION:***Bitne izmjene u hardveru i softveru moraju se odobriti prije instalacije na brod.****Sve hardverske i softverske promjene sustava moraju biti zapisane tijekom primjene na brodu.****Zapisi o izmjenama moraju se dostaviti HRB-u radi provjere i odobrenja.***Major changes in the hardware and software are to be approved before being installed on the vessel.**All changes in hardware or software are to be recorded as long as the system is in use on board.**The records of all changes are to be forwarded to CRS for evaluation and approval.*

Raščlana

13.03.03

Zamjenjuje potvrdu

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