

**POTVRDA O TIPNOM ODOBRENJU**  
*TYPE APPROVAL CERTIFICATE*Br / No **03-001498/031208**

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:***Remote Monitoring, Control and Alarm System for MTU Diesel Engines****- Bluevision NG -****PROIZVOĐAČ:**  
*MANUFACTURER:***MTU Friedrichshafen GmbH**  
Maybachplatz 1  
88045 Friedrichshafen*GERMANY***PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:***THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:*

**Hrvatski registar brodova:** **Pravila za klasifikaciju brodova,**  
**Dio 9. – Strojevi, Dio 13. – Automatizacija**

*Croatian Register of Shipping:* *Rules for the classification of ships,*  
*Part 9. – Machinery, Part 13. – Automation*

**IACS UR E10****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:** **2020-02-10***APPROVAL IS VALID UNTIL:***Mjesto i datum** Split, 2016-02-10*Place and date***M.P.**  
*(Seal)*

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:*

Sustav se koristi za upravljanje propulzijom s jednim do četiri MTU motora sa fiksnim propelerima. Sustav može imati do šest upravljačkih mjesta. Sustav se sastoji od sljedećih modula:

*System is for use with one to four MTU engine propulsion plants with fixed pitch propeller. System may have extensions for up to six control stands. System is comprising of the following modules:*

Local Operating Panel	LOP-14	Systembus Processing Unit - SPU1 & Local Operation Station - LOS4
Systembus Coupling Unit	SCU	CAN & Ethernet Interfaces to MCS/RCS
Systembus (Ethernet)	Switch	Ethernet Systembus
Color Graphic Display	MFD	Monitoring Control System MCS
Functional Panel	PAN MCS & RCS	Control functions - Start, Stop, Override, Emergency Stop, Reset, Control Station Transfer, Indications...
Control Lever	ROS	ROS 13, ROS 15 & ROS 16
Analogue Instruments	Advanced	RPM, Pressure, Temperature, Buzzer, Key switch

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

*BlueVision\_Advanced/New Generation, System documentation, E532397/01E dated 2013-04,  
MTU – Introduction Bluevision New Generation, Version 1\_05, JH dated 20.07.2015,  
MTU – Umfang ADVANCED\_Kabel und Gerate\_2W-3FV1\_Ovsvd dated 22.01.2013.*

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

Sustav se koristi za MTU motore serije 2000 i 4000 na jahtama, patrolnim i radnim brodicama. Konačni raspored modula i osjetnika potrebno je odobriti od strane Hrvatskog Registra Brodova.  
*MTU Engine Series 2000 & 4000 installed on board yachts, patrol boats and workboats.  
Final module and sensors arrangement is subject of the Croatian Register of Shipping Plan Approval.*

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

*LOP14, SCU1, ROS13A & PAN9 – MTU Performance Test, Registration No. Type Test 11/13, dated 01/07/2013,  
LOP14 – MTU Type Approval Test, Registration No. 07/13, dated 15/07/2013,  
SCU1 – MTU Type Approval Test, Registration No. 08/13, dated 18/07/2013,  
PAN9 – MTU Type Approval Test, Registration No. 09/13, dated 18/07/2013,  
MFD1 – MTU Type Approval Test, Registration No. 02/10, dated 14/06/2010,  
ROS13 – MTU Type Approval Test, Registration No. 10/13, dated 18/07/2013,  
MFD – MTU Multi Function Display FMEA analyses, dated 28/05/2010.*

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

Ime proizvođača, tip proizvoda, serijski broj-identifikacija, datum proizvodnje, napon napajanja.  
*The Manufacturer and Type Designation of the product, serial number, date of manufacture, supply voltage.*

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

Za svaku primjenu na brodovima klase HRB-a, potrebno je dostaviti tehničku dokumentaciju s nacrtima na pregled i odobrenje prije postavljanja na brod. Značajnije izmjene u software-u moraju biti odobrene prije primjene na brodu.

*For each application on board CRS classed vessels, technical documentation and drawings shall be submitted for examination and approval prior installation on board. Major changes in the software are to be approved before on board application.*

Raščlana

Zamjenjuje potvrdu

13.01.01

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