

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATEBr /No **03-001619/031337**

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:

Monitoring and Control System**UNS 10195 (Monitoring) & UNS10195/P (Protection)**PROIZVOĐAČ:
MANUFACTURER:**SAN GIORGIO S.E.I.N. Srl**

Via A. Pedulla 59

16165 GENOVA

Italy**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 POLEDINI.**

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

ODOBRENJE VRIJEDI DO: 2022-02-12

APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2018-02-13

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.

PODROBNJI OPIS PROIZVODA:
DETAILED PRODUCT DESCRIPTION:

UNS10195 je sustav za nadzor i upravljanje glavnih i pomoćnih motora. Glavna jedinica je 7" TFT touchscreen ekran u boji čija je osnovna stranica pre-programirana te pokazuje analogne instrumente i digitalno očitavanje izmjerenih parametara motora. UNS10195/P izvedba može se konfigurirati i koristiti kao jedinica za automatsku zaštitu motora. Napon napajanja je 12-24V DC.

UNS10195 is an advanced main and auxiliary engines monitoring and control system. It has 7" TFT touchscreen display which main page is pre-programmed with analogue style gauges and digital read-out of measured engine parameters. UNS10195/P unit version has a setup suitable for engine automatic protection. Power supply is 12-24V DC.

| <u>Ulazi / Inputs</u> | <u>Izlazi / Outputs</u> | <u>Komunikacija / Communications</u> |
|--|--|---|
| <p>8 Analogue resistive inputs 0-300 ohm</p> <p>8 Analogue inputs resistive multirange</p> <p>16 Analogue inputs 0-10Vdc/4-20mA</p> <p>8 Thermocouple inputs (J or K type)</p> <p>6 Battery voltage inputs 0-36V</p> <p>3 Frequency inputs – Min 5Vpp, 15kHz</p> <p>8 ON/OFF digital alarm inputs (N.C.)</p> | <p>8 Relay outputs (500 mA) including:</p> <p>n.1 d.o. – external buzzer</p> <p>n.1 d.o. – cumulative alarm</p> <p>n.1 d.o. – fault alarm</p> <p>1 Aux. 9V for sensors (100mA)</p> | <p>4 Can Bus J1939 (N.1 NMEA2000 ready)</p> <p>1 RS485</p> <p>1 RS232</p> <p>1 NMEA 0183 input</p> <p>1 USB OTG</p> <p>1 Ethernet</p> |

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:
APPLICATION / LIMITATIONS:

Za vrijeme pregleda, nakon instalacije potrebno je provjeriti ispravnost konfiguracije i postavki za svaku primopredaju u nazočnosti Registra. Značajnije programske izmjene moraju biti odobrene prije primjene.

Correct configuration and set up for each delivery to be tested during commissioning, after installation, under the supervision of a Society Surveyor. Major changes in the software are to be approved before being installed.

DOKUMENTACIJA ZA TIPNO ODOBRENJE:
TYPE APPROVAL DOCUMENTATION:

UNS10195 & UNS10195/M - Monitoring and Control System, User manual – M151106 ver 1.0 - 05/12/2017.

TesLab – Test Report No. 16B249F dated 2017.12.15.

ACS Electronics Srl – Test Report RPT12110001 dated 2017.12.12.

UNS10195 – Test setup for Type Approval – M161021, Release 1.01 – 09/11/2016.

OZNAČAVANJE PROIZVODA:
MARKING OF PRODUCT:

U skladu s IEC60945 – Označavanje i identifikacija (Naziv proizvođača i tip proizvoda, serijski broj, datum proizvodnje, sigurna udaljenost od magnetskog kompasa, napon napajanja, programska verzija....)

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, software version...).

UVJETI ZA CERTIFIKACIJU:
CONDITIONS FOR CERTIFICATION:

Sustav nadzora i upravljanja sa samo jednom porivnom jedinicom može se prihvatiti jedino u kombinaciji s posebnom jedinicom za automatsku zaštitu motora.

The monitoring and control system with single engine propulsion, is acceptable in combination with an additional unit for automatic engine safety protection.