

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

**Br/No 03-001458/031080**



**Integrirani sustav alarma, nadzora i upravljanja**

*Integrated Alarm, Monitoring and Control System*

**- I S A N U -**

**TIP I**  
*TYPE*

**INMEL d.o.o.**

Šoići bb

51221 Kostrena / Sv. Barbara

**HRVATSKA - CROATIA**

**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**

**PROIZVOĐAČ:**  
*MANUFACTURER:*

**PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:**  
*THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:*

**DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEĐINI.**  
*FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.*

**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*

**RODNE VAŽEĆE DO:**  
*APPROVAL IS VALID UNTIL:*

2015-04-09

**Mjesto i datum**  
*Place and date*

Split, 2015-04-09

**M.P.**  
*(Seal)*

Marinko Popović, dipl.ing.

~~ISANU je modularni sustav daljinskog nadzora i upravljanja raznih brodskih sustava baziran na Siemens tehnologiji. Sustav se konfigurira i programira prema posebnim zahtjevima za pojedinačnu primjenu. Sastoji se od:~~

~~PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:  
ISANU is a modular system for remote monitoring and control of different ships systems based on Siemens technology. System is configured and programmed according to specific implementation and requirements. It consists of:~~

Processor Siemens S7-317-2PN/DP (Master station – double unit);

Communication: Siemens TPNCRT02BR (Master-station, two pcs) & TP1200 Comfort (sub-stations);  
Description: Modbus (Profinet LAN);

Power Module PS 307(10A-24V) & PM-E(24V);

Input Modules: Digital 8DI Analogue 4AI/L & 2AI/RTD;

TEHNIČKA DOKUMENTACIJA / NACRTI:

Communication: ETHERNET Rail Switch RS20-0000 & RS20-0400;

Catalogue CA 01 04/00SE D, CA 01 10/2013, ST80/ST PC Edition 2014,  
User Manual, Installation, Industrial ETHERNET Rail Switch – RS20/RS30/RS40 Family, release 03/08.

Sustav se može koristiti za daljinski nadzor i upravljanje sustavima brodske strojarnice, diesel agregatima, električnim postrojenjem, pumpama i ventilima raznih službi, ventilacijom i klimatizacijom, raznim procesnim mjerenjima i regulacijama.

U System may be used for remote monitoring and control of the ship's engine room, diesel generators, electrical switchgear, pumps and valves for different services, ventilation and acclimatization, measuring and regulation of different processes

OZNAČAVANJE PROIZVODA:

MARKING OF PRODUCT:

QF-PTO-01

2/2

2011-04

**SIMATIC S7-300 / M7-300 / C7 – CRS Type Approval Certificate 03-001422/031106,**  
**SIMATIC ET-200 B,C,L,L-SC,M,S,X,SC,eco,ecoPN,pro – CRS Type Approval Certificate 03-001426/031106,**  
**SIMATIC Microbox PC and HMI IPC – CRS Type Approval Certificate 03-001428/031106,**  
**SIMATIC HMI op, TP, MP, KP, KTP, KP/TP/KTP Comfort – CRS Type Approval Certificate 03-001427/031106,**  
**Ethernet Local Area Network Data Communication Equipment – CRS Type Approval Certificate**

**Ime proizvođača, tip proizvoda, serijski broj-identifikacija, datum proizvodnje, napon napajanja i programska izvedba.**

*The Manufacturer and Type Designation of the product, serial number, date of manufacture, supply voltage and software version.*

**Za svaku primjenu na brodovima klase HRB-a, potrebno je dostaviti kompletnu 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 complete 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

13.01.00

Zamjenjuje potvrdu

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