

TYPE APPROVAL CERTIFICATE



N. ELE178616CS012

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

Description Monitoring and Control System

Type UNS10195 (Monitoring)

UNS10195/P (Protection)

Applicant SAN GIORGIO S.E.I.N. Srl

Via A. Pedullà 59 16165 Genova

Italy

Manufacturer SAN GIORGIO S.E.I.N. Srl

Via A. Pedullà 59 16165 Genova

Italy

Testing Standards Rules for the Classification of Ships – Part C – Machinery Systems

and fire protection - Ch. 3 Sect.6, Tab. 1

Issued in Genova on January 15, 2018

This certificate is valid until January 14, 2023

RINA Services S.p.A.

Ve Eris Bruoni

Valerio Bonanni



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Monitoring and control system type UNS10195, UNS10195/P

Main features:

7" Colour TFT display with capacitive touch-screen; resolution 800x400; LED backlight 800 cd, sunlight readable. Integrated data and alarm logger. Mechanical protection IP 56

Inputs:

8 Analogue resistive inputs 0-300 ohm

8 Analogue inputs resistive multirange (0-300 ohm, 0-100 Kohm, PT100, Pt1000)

16 Analogue inputs 0-10Vdc / 4-20mA

8 Thermocouple inputs (J or K type)

6 Battery voltage inputs 0-36V

3 Frequency inputs- Min 5Vpp, 15kHz (engine RPM, W Alternator, 3 / 2 wire pick up)

8 ON / OFF digital alarm inputs (N.C.)

Outputs:

8 Relay outputs (500 mA) including:

n.1 d.o. for external buzzer control

n.1 d.o. for cumulative alarm

n.1 d.o. for fault alarm

1 Auxiliary 9V output for sensors (100mA)

Communication Ports:

4 Can Bus J1939 (N.1 NMEA2000 ready).

1 RS485

1 RS232

1 NMEA 0183 input

1 USB OTG

1 Ethernet

Power supply

Main power supply 12-24V Auxiliary power supply 12-24V

Test Reports:

TesLab report n. 16B249F (15/12/2017); ACS Electronics report n. RPT12110001 Rev. 0 (12/12/2017)

Technical Specifications:

User Manual M151106 ver. 1.0 (05/12/2017)

Remarks:

UNS10195 and UNS10195/P are suitable to be installed on the open decks of a Ship. UNS10195/P version has a special setup suitable for engine protection (safety) using analogue inputs to perform line monitoring for safety measurements and engine automatic stop relay. According to Solas Requirement UNS10195 and UNS10195/P devices are not allowed to perform both alarm / monitoring and engine protection simultaneously.

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