



TYPE APPROVAL CERTIFICATE



N. ELE178616CS002

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	UNS 10194
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 July 28, 2016.

This certificate is valid until July 28, 2021

Valerio Bonanni

RINA Services S.p.A.

Valerio Bonanni

Genova, July 28, 2016

1/2



TYPE APPROVAL CERTIFICATE



N. ELE178616CS002

Monitoring and control system type UNS10194 including data logger functions:

5.7" TFT touch-screen Res. 320 x 240 Pixel _ with 5 keys membrane keyboard.
Main page consists of pre-programmed analogue style gauges and digital read-out for measurements of engine parameters.
Threshold alarms may be provided for each measured variable.

Inputs:

3 x analogue frequency min. 2Vpp (pick-up /alternator)
8 x 0 to 300 ohm resistive sensors
12 x analogue 0 to 5Vdc ; 0 to 10Vdc; 4-20 mA
12 x analogue level sensors TIL / NTC temperature
8 x Thermocouple J and K type (with cold junction compensation)
3 x battery voltage 0 to 32Vdc
8 x digital (on/off N.C. for alarms)

Outputs:

8 x Relay N.O. (500mA)

Communication ports:

2 x CAN Bus SAEJ1939 (customizable)
2 x CAN Bus 2.0B
1 x Serial RS485
1 x Serial RS232
1 x NMEA 0183
1 x LAN Ethernet 10/100 RJ45

Degree of protection: IP X6

Power supply : 24 Vdc

Test Reports:

TesLab report n. 111006F (22/04/2011)

S.E.I.N. technical documents:

doc. M100907 rev. 1.0 (04/11/2010)
doc. M10019 rev. 1.2 (14/09/2010)
dwg. n. D090313 (12/03/09)
dwg. n. D090325 (07/07/10)

Remarks:

UNS10194 is suitable to be installed on the open decks of a ship.
According to Solas Requirement UNS10194 device is not allowed to perform both alarm / monitoring and engine protection simultaneously.

Genova, July 28, 2016

2/2