



TYPE APPROVAL CERTIFICATE

No. ELE226822WS

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

<i>Description</i>	Alarm and monitoring system
<i>Type</i>	N3500
<i>Applicant</i>	SHANGHAI NORIS-SIBO AUTOMATION CO.,LTD G/F,NO.8 BUILDING SOUTH,NO.2716 PINGLIANG OAD,YANGPU DISTRICT SHANGHAI CHINA
<i>Manufacturer</i>	SHANGHAI NORIS-SIBO AUTOMATION CO.,LTD
<i>Place of manufacture</i>	G/F,NO.8 BUILDING SOUTH,NO.2716 PINGLIANG OAD,YANGPU DISTRICT SHANGHAI CHINA
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **SHANGHAI** on **July 20, 2022.** This Certificate is valid until **July 19, 2027**




RINA Services S.p.A.
Qiang Sun

This certificate consists of this page and 1 enclosure

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N3500

1. Product Description

The NS-3500 monitoring & alarm system is used to fulfil the tasks of measuring, calculating, graphics display, alarm and record and so on. The system is used for monitoring & alarm of the power sets, ballast water and liquid level etc.

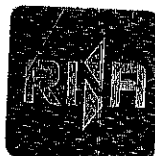
- Power supplies : AC 220V, 60Hz & DC 24V
- Main Components and approval range:

No.	Name	Mode
1	AMS SAU	800x800
2	Gateway	GATEWAY
3	Binary measuring module	STM7-IN32
4	I/O module	STM7-INOUT
5	Integrated I/O module	STM7-AINOUT
6	Current/Voltage measuring module	STM7-I/V1
7	Thermal resistance measuring module	STM7-PT100
8	Thermocouple measuring module	STM7-MV1
9	Binary measuring module	STM7-SAFT
10	Analog output module	D/A
11	Extend Alarm panel	N3510/N3511
12	Color LCD display	N3520/N3521
13	Industrial computer	TANK-600
14	UPS	V-1000
15	IP-LINK	TL-SF1008+
16	Display	PHILIPS-17"
17	Printer	LQ-300K+II
18	Monitor Unit	N3500-MU-220-17
19	Monitor Unit	N3500-MU-220-19
20	Monitor Unit	N3500-MU-220-21
21	Monitor Unit	N3500-MU-220-23
22	Switch	N3500-HUB-SF1016D
23	Keyboard	N3500-KB-1

- Software version

Name	Type	Revision
Industrial Computer	Tank-600	Rev.2.1
Geteway	GETEWAY	N3500 GW-00

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2. Reference Documents

- Test Report: "Shanghai Inspection and Testing Institute of Instruments and Automation System Co.,Ltd." Report No.: A21-014-WT. Filed by RINA with drawing No. SHEL-13653.
- Routine test Report signed by RINA Surveyor. Filed by RINA with drawing No.SHEL-13702.
- Asbestos-free Declaration: Filed by RINA with drawing No. SHEL-13656.
- Declaration of no change of products. Filed by RINA with drawing No.SHEL-13655.

3. Note/Remark

- For each configuration, the following documentation is to be submitted for approval:

- System description / scope of supply
- System block diagram
- Functional description
- External connection block diagram
- Power supply block diagram
- Factory Acceptance Test Procedure

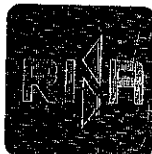
- Traceability of Hardware and Software is to be ensured for each installation and evidence is to be available on request.
- The product is subject to the compliance with RINA Rules and Standards mentioned on the certificates
- Type Approval certifies that a representative sample of the product has been found to meet the applicable design criteria
- Any modification or change shall not be valid until approval is granted by RINA as a result of due assessment.
- To be used for Category II Systems.

4. Renewal/Revision

- + February 14, 2017: initial certification. Certificate No. ELE167316WS.
- + July 20, 2022: New certificate No. ELE226822WS revokes previous certificate.

SHANGHAI July 20, 2022

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