

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Shanghai Noris-Sibo Automation Co., Ltd																
Address	G/F, No.8 Building South, No.2716 Pingliang Road, Yangpu, Shanghai, China																
Place of Production	Shanghai Noris-Sibo Automation Co., Ltd G/F, No.8 Building South, No.2716 Pingliang Road, Yangpu, Shanghai, China																
Type	Alarm And Monitoring Systems																
Description	N3500 Alarm and Monitoring System																
Trade Name	N3500																
Application	Marine application for use in environmental category ENV1, ENV2 as defined in LR Type Approval Test Specification No. 1 July 2015																
Ratings	Power Supply: AC 220 ~240V, 50/60HZ, DC 24V The System consists of: <table><thead><tr><th>Component</th><th>Type</th></tr></thead><tbody><tr><td>AMS SAU</td><td>800x800</td></tr><tr><td>Gateway</td><td>Gateway</td></tr><tr><td>Binary measuring module</td><td>STM7-IN32</td></tr><tr><td>I/O module</td><td>STM7-INOUT</td></tr><tr><td>Integrated I/O module</td><td>STM7-AINOUT</td></tr><tr><td>Current/Voltage measuring module</td><td>STM7-I/V1</td></tr><tr><td>Thermal resistance measuring module</td><td>STM7-PT100</td></tr></tbody></table>	Component	Type	AMS SAU	800x800	Gateway	Gateway	Binary measuring module	STM7-IN32	I/O module	STM7-INOUT	Integrated I/O module	STM7-AINOUT	Current/Voltage measuring module	STM7-I/V1	Thermal resistance measuring module	STM7-PT100
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Classification Society (China) Co Ltd
A member of the Lloyd's Register group

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Thermocouplemeasuring module	STM7-MV1
Binary measuring module	STM7-SAFT
Analog output module	D/A
Extend alarmpanel	N3510/ N3511
Color LCDdisplay	N3520/ N3521
Industrialcomputer	TANK-600
UPS	V-1000
TP-LINK	TL-SF1008+
Printer	LQ300K+II
Monitor unit	N3500-MU220-17
Monitor unit	N3500-MU220-19
Monitor unit	N3500-MU220-21
Monitor unit	N3500-MU220-23
Switch	N3500-HUB-SF1016D
Keyboard	N3500-KB-1

Additional Tests

1. The system is to be in compliance with the applicable Lloyd's Register Rules and Regulations of Ships when installed on board specific ship, and is subject to plan approval on individual cases.
2. Examination of software aspects is restricted to functional operation as demonstrated in the Performance test.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR22288528TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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